

UST# /1929

Briney. Stephanie M. <brineysm@dhec.sc.gov>

Fuel Fluorescence Screening - Temporary Monitoring Well Approvals

1 message

 Thu, Sep 6, 2012 at 4:43 PM

Hey Stephanie,

As discussed, we plan to perform several fuel fluorescence borings at the Former Ryder Truck Terminal in Greenville this weekend. I have attached a site map showing the proposed locations along with existing monitoring wells for reference. We a requesting a permit to perform up to 11 borings throughout the site. This is a similar request as to the one I sent Susan for the demonstration we performed in Columbia.

Please let me know if you have any questions or need any additional information.

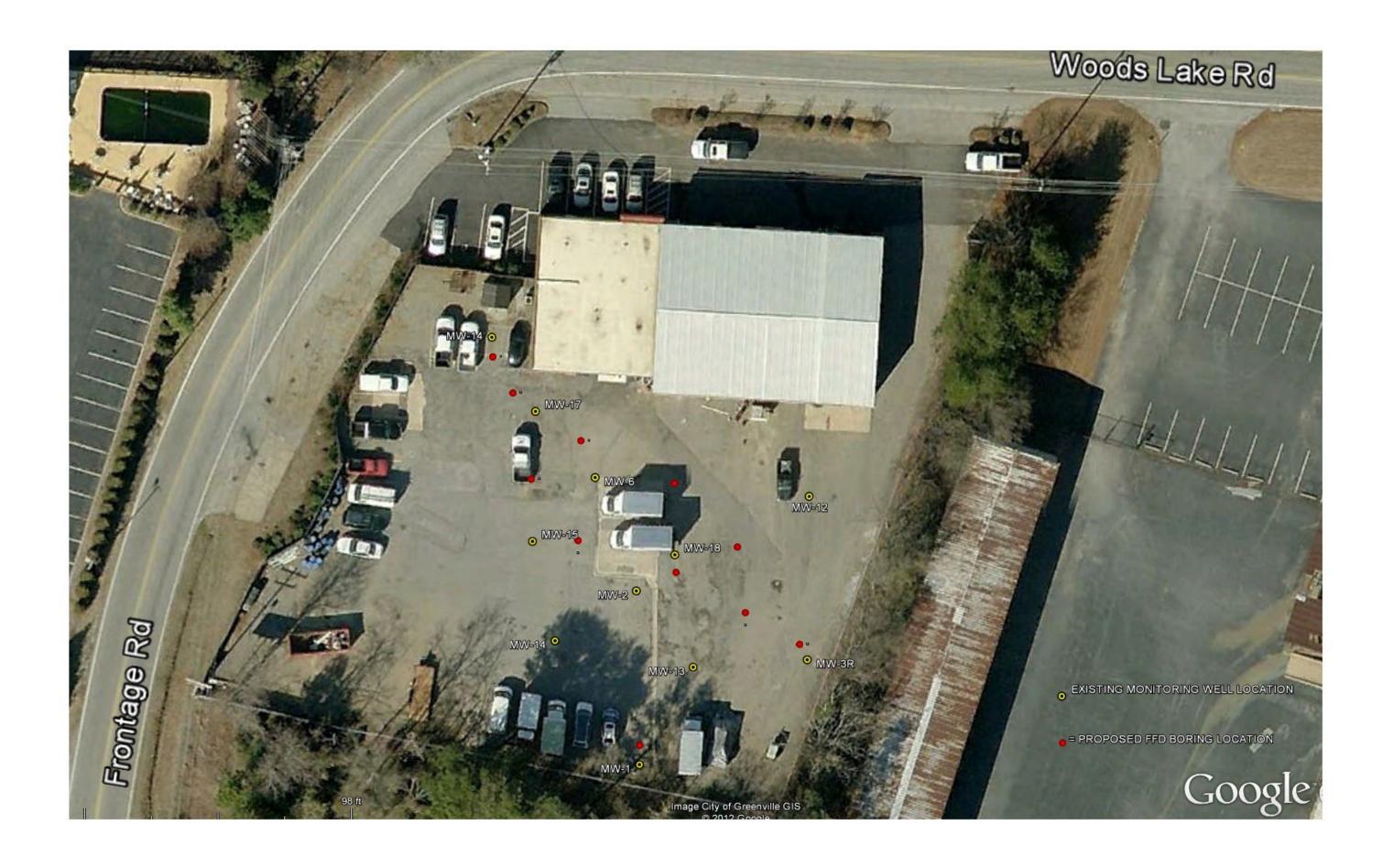
Thank you very much for your assistance.

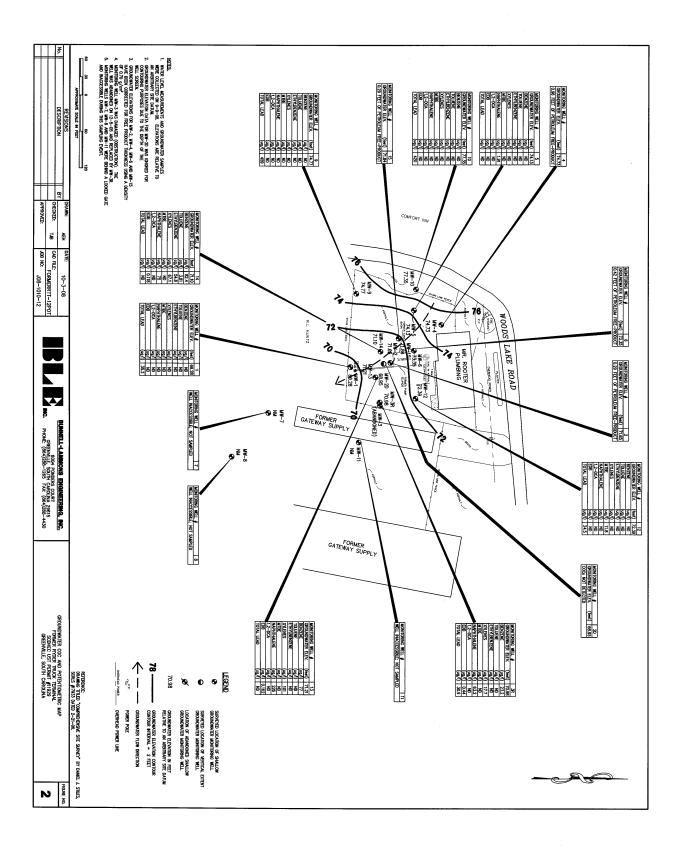
Sincerely,

Trevor J. Benton, P.G.
Project Hydrogeologist
Bunnell-Lammons Engineering, Inc.
6004 Ponders Court
Greenville, SC 29615
(864) 288-1265 (office)
(864) 288-4430 (fax)
(864) 346-8208 (cell)

This electronic transmission is strictly confidential to Bunnell-Lammons Engineering, Inc.(BLE) and intended solely for the addressee. It may contain information, which is covered by legal, professional, or other privilege. If you are not the intended addressee, or someone authorized by the intended addressee to receive transmissions on the behalf of the addressee, you must not retain, disclose in any form, copy or take any action in reliance on this transmission. If you have received this transmission in error, please notify us as soon as possible and destroy this message.







Stephanie

AUG 3	UNDERGROUND STORAGE TANK (UST) OWNER/OPERATOR LEAD INFORMATION O 2010 SHEET
	1. CONTRACTOR OF CHOICE (Former Ryder lerminal)
PRO	As the UST Owner/Operator of the UST Permit # 11929, I would like to use the contractor or person(s) listed below and request that they represent me for:
	☐ IGWA ☐ All future assessment scopes.**
	Name of Contractor/Person(s) <u>EXCALIBUR ENVIRONMENTAL SERVICES</u> , INCAddress <u>403 Cotton Hall Court</u> Simpsonville, SC 29680
	Telephone Number 864-967-9744
	Note: After September 20, 1997, rehabilitation activities must be performed by a SC Certified Site Rehabilitation Contractor.
-	indicate if the person listed is your own employee
•	** if you would like the contractor to perform all future assessment activities at this and/or other UST sites that have confirmed releases, please provide a list of all sites on your letterhead and provide the information requested in items 2 and 3 below within the context of the letter.
	2. FINANCIAL OR FAMILIAL RELATIONSHIP
	Does a financial or familial relationship, as defined below, exist between you and the contractor/person that you listed above? Yes No (please initial)
	Financial Relationship: A connection or association through a material interest of sources of income which exceed five percent of annual gross income from a business entity.
	Familial Relationship: A connection or association by family or relatives, in which a family member or relative has a material interest. Family or relatives include: father, mother, son, daughter, brother, sister, made, aunt, first cousin, nephew, niece, husband, wife, father-in-law, mother-in-law, son-in-law, daughter-in-law, stepfather, stepmother, stepson, stepdaughter, stepbrother, stepsister, half brother, half sister, grandparent, grandchild, great grandchild, step grandparent, step great grandparent, step grandparent, step grandchild, step great grandchild, or fiancée.
	3. PAYMENT
	The first \$25,000.00 in eligible site rehabilitation costs will be applied against the applicable SUPERB deductible, upon submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment.
	For eligible costs exceeding the \$25,000.00 deductible, you can pay the contractor and, upon the submittal of the canceled check (front and back) or a notarized statement from the contractor verifying payment, be compensated from the SUPERB Account, or have payment issued directly from the SUPERB Account to the contractor. (check one)
	For eligible costs exceeding the deductible, I request that payment be made to me after I have paid the contractor.
	For eligible costs exceeding the deductible, I request that payment be made directly to the contractor.
	(Note: all costs must receive prior financial approval from the Department regardless of payment option.)
	Underground Storage Tank Owner/Operator Signature Ropes A Vigle PR. Estate of R.B. Veylen
	Date 8/29/10



REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

FORMER RYDER TRUCK TERMINAL 10 WOODS LAKE DRIVE GREENVILLE, SOUTH CAROLINA UST PERMIT # 11929; COST AGREEMENT # 38458

Prepared By:

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615

September 8, 2010

BLE Project Number J10-1010-15



September 8, 2010

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull St.

Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney

Hydrogeologist

Subject: Report of Multiple Aggressive Fluid Vapor Recovery Event

Former Ryder Truck Terminal Greenville, Greenville County UST Permit #11929; CA #38458 BLE Project No. J10-1010-15

Dear Ms. Briney:

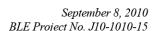
Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of five aggressive fluid vapor recovery (AFVR) events at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated March 18, 2010. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II

6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE (864) 288-1265 FAX (864) 288-4430





Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, 2007, 2008 and 2009 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. In a continued effort to remove free-product concentrations at the site SCDHEC has required that five additional AFVR events be performed fifteen days apart. This report presents the results of the work performed.

COMPLETED SCOPE OF SERVICES

Between May 14, 2010 and July 29 2010, BLE personnel mobilized to the site to perform five AFVR events on existing monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The events were performed 15 days apart with AFVRs conducted in well groups specified by SCDHEC. This report presents the results of our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – MAY 14, 2010

On May 14, 2010, the first 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. A geologist from BLE was on site for observation and monitoring. The AFVR event was performed by Caro-Vac AFVR Services, LLC of Mauldin, South Carolina (Caro-Vac). Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst[®] Interface Meter Model 122. BLE personnel measured 0.01 feet and 1.65 feet of petroleum free-product in MW-4 and MW-17, respectively, prior to initiating the AFVR event (Figure 2). Additionally, the initial depth to free-product/groundwater (feet below top of PVC casing (btoc)) in adjacent source area monitoring wells MW-5, MW-6, and MW-15 were measured and recorded on Table 1.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were clear; winds varied between 5 and 13 mph with an ambient temperature between 69° and 87° Fahrenheit. Throughout the duration of the AFVR event,

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Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

a continuous vacuum of 25 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to water (feet bloc) was measured every 30 minutes in MW-5, MW-6, and MW-15, to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a granulated activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 Photo Ionization Detector (PID). The observed vapor concentrations are shown in Table 1.

At the completion of the AFVR event, a total volume of 375 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Approximately 0.5 gallons of free-phase product was measured in the holding tanks at the end of the AFVR event by Caro-Vac personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.39 pounds of gasoline vapor, which is equivalent to approximately 0.06 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 1A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.10, 2.52, and 0.47 feet of free-phase product was observed in MW-4, MW-6, and MW-15, respectively. Total water level changes for this event are shown in Table 1.



Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – JUNE 3, 2010

On June 3, 2010, the second 8-hour AFVR event was conducted in monitoring wells MW-6 and MW-18. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst[®] Interface Meter Model 122. BLE personnel measured 2.09 feet and 0.32 feet of petroleum free-product in MW-6 and MW-18, respectively (Figure 2). Additionally, the initial depth to free-product/groundwater (feet btoc) in adjacent source area wells MW-2, MW-15, and MW-17 was measured and recorded on Table 2.

The AFVR event was initiated at 1000 and concluded at 1800. The general weather conditions observed during this period of time were cloudy; winds varied between 4 and 12 mph with an ambient temperature between 68° and 87° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-6 and MW-18. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in MW-2, MW-15, and MW-17 to evaluate drawdown. Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 850 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Approximately 1.5 gallons of free-phase product was measured in the holding tanks at the end of the AFVR event by Caro-Vac personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

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A total of approximately 0.34 pounds of gasoline vapor, which is equivalent to approximately 0.06 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 2A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01, 0.35, 0.37 feet of free-phase product was observed in MW-6, MW-15 and MW-17, respectively. Total water level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 - JUNE 29, 2010

On June 29, 2010, the third 8-hour AFVR event was conducted in monitoring well MW-3R. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. No free-product was detected prior to initiating the AFVR event (Figure 2). Additionally, the initial depth to water (feet btoc) in adjacent source area wells MW-13 and MW-18 was measured and recorded on Table 3.

The AFVR event was initiated at 0900 and concluded at 1700. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 7 and 15 mph with an ambient temperature between 73° and 93° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-3R. In addition to collecting vacuum readings, the depth to free-product (feet btoc) was measured every 30 minutes in monitoring well MW-13 and MW-18 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 3.

At the completion of the AFVR event, a total volume of 660 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase product was

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Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

measured in the holding tanks at the end of the AFVR event by Caro-Vac personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.36 pounds of gasoline vapor, which is equivalent to approximately 0.06 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and no free-phase product was observed. Total water level changes for this event are shown in Table 3.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 - JULY 14, 2010

On July 14, 2010, the fourth 8-hour AFVR event was conducted in monitoring well MW-15. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. Prior to initiating the event, BLE personnel gauged 0.31 feet of free-phase petroleum product in MW-15 (Figure 2). Additionally, the initial depth to free-product/groundwater (feet btoc) in adjacent source area monitoring wells MW-6 and MW-14 were measured and recorded on Table 4.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 6 and 9 mph with an ambient temperature between 72° and 93° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-15. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet bloc) was measured every 30 minutes in wells MW-6 and MW-14, to evaluate drawdown. Gauging data observed during the event is shown in Table 4.

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Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 4.

At the completion of the AFVR event, a total volume of 575 gallons of petroleum impacted groundwater was determined to have been recovered from the site. No free-phase petroleum product was measured in the holding tanks by Caro-Vac personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.15 pounds of gasoline vapor which is equivalent to approximately 0.02 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 1.70 feet and 0.05 feet of free-phase product was observed in MW-6 and MW-15, respectively. Total water level changes for this event are shown in Table 4.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #5 – JULY 29, 2010

On July 29, 2010, the fifth 8-hour AFVR event was conducted in monitoring well MW-6. A geologist from BLE was on site for observation and monitoring and the AFVR event was performed by Caro-Vac. Prior to initiating the event, BLE personnel gauged 1.35 feet of free-phase petroleum product in MW-6 (Figure 2). Additionally, the initial depth to free-product/groundwater in adjacent source area monitoring wells (feet btoc) MW-15, MW-17, and MW-18 were measured and recorded on Table 5.

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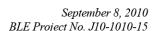
The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 5 and 12 mph with an ambient temperature between 75° and 93° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 25 inches of mercury was applied to MW-6. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in wells MW-15, MW-17, and MW-18, to evaluate drawdown. Gauging data observed during the event is shown in Table 5.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Caro-Vac personnel utilizing a vapor exhaust chiller and a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 5.

At the completion of the AFVR event, a total volume of 250 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Approximately 0.5 gallons of free-phase petroleum product was measured in the holding tanks by Caro-Vac personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.20 pounds of gasoline vapor which is equivalent to approximately 0.03 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.05 feet, 0.24 feet, 0.48 feet and 0.01 feet of free-phase product was observed in MW-6, MW-15, MW-17, and MW-18, respectively. Total water level changes for this event are shown in Table 5.





Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

CONCLUSIONS AND RECOMMENDATIONS

On August 16, 2010, BLE personnel mobilized to the site to measure free-product levels in MW-2, MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 (Table 6). Approximately 0.02 feet (MW-2), 0.01 feet (MW-3R), 0.56 feet (MW-4), 1.03 feet (MW-6), 0.27 feet (MW-15), and 0.41 feet (MW-17) of free-phase product was measured in the wells. No free-product was observed in monitoring well MW-18.

Overall, the AFVR events have been successful in reducing free-product levels across the site. However, petroleum free-product persists at moderate thicknesses in each well monitored. Therefore, we recommend an additional series of multiple 8-hour AFVR events be conducted to 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. We recommend a series of five additional AFVR events be conducted on monitoring wells MW-2, MW-3R, MW-4, MW-6, MW-15, and MW-17, which still exhibit free-product thicknesses.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.



Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #38458

September 8, 2010 BLE Project No. J10-1010-15

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey Business Management, Division of Procurement Services for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINE

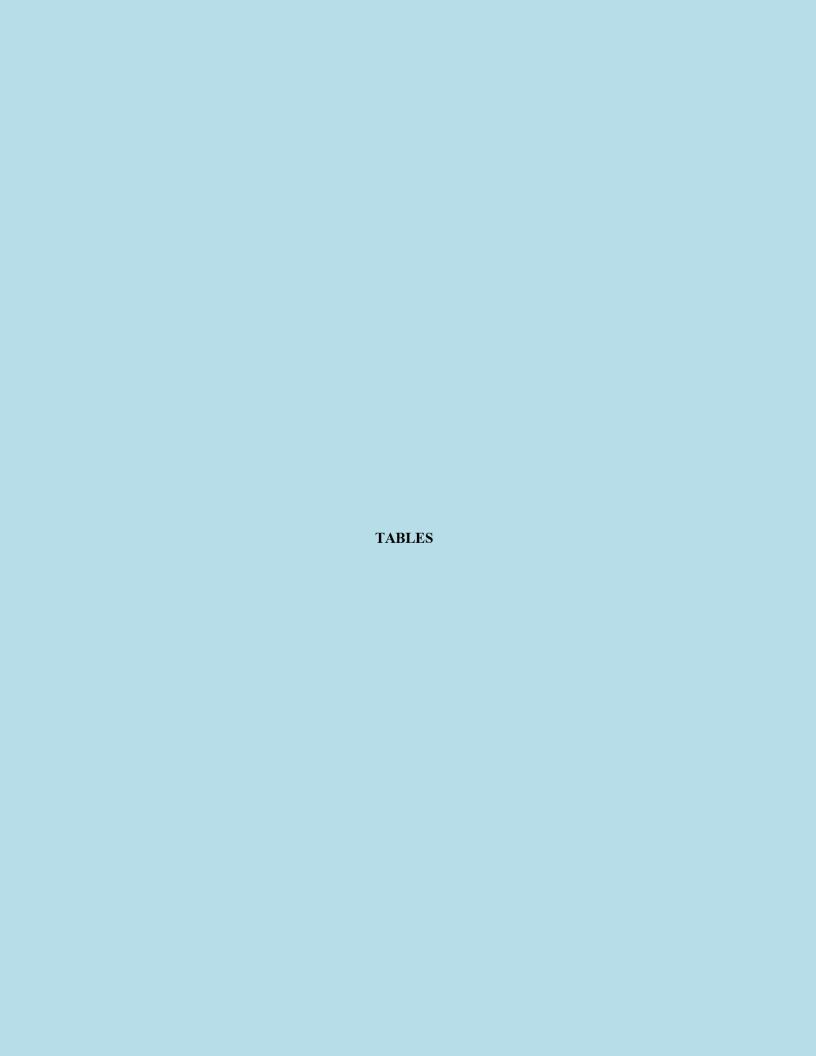
Trevor J. Benton, P.G. Project Hydrogeologist

Registered, South Carolina #239

Thomas L. Lammons, P.G.

Principal

Registered, South Carolina #893



AFVR Gauging Data - May 14, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

			Monitoring	Well Gauging	Data			Air Emi	ssions
		Readings s of Hg)		Depth	to Free Product (feet BTOC)	/ Water		Influent (ppm)	Effluent
Time	MW-4	MW-17	MW-4	MW-5	MW-6	MW-15	MW-17		(ppm)
0930	25	25	20.66/20.67	20.38	22.07/24.16	21.35/21.71	21.10/22.70	816	21
1000	25	25	T	20.41	22.16/24.35	21.28/21.53		454	17
1030	25	25	1 [20.44	22.24/24.54	21.21/21.35	1	370	16
1100	25	25	1 1	20.46	22.32/24.71	21.03/21.3	1	254	15
1130	25	25	1 1	20.47	22.39/24.88	20.84/21.25	1	123	15
1200	25	25	1	20.47	22.47/24.93	20.85/21.27	1	116	14
1230	25	25	1 5 1	20.47	22.54/24.98	20.86/21.28	Ę	110	13
1300	25	25	1 3	20.47	22.56/25.01	20.86/21.28	Œ	106	13
1330	25	25	1 = [20.47	22.57/25.05	20.86/21.28	AFVR EVENT	99	13
1400	25	25	AFVR EVENT	20.47	22.59/25.08	20.86/21.28	8	91	13
1430	25	25	1 🗦 1	20.47	22.60/25.11	20.86/21.28	†	83	10
1500	25	25	1 [20.47	22.60/25.11	20.86/21.29	1	76	10
1530	25	25	1 1	20.47	22.60/25.12	20.86/21.30	1	69	10
1600	25	25	1	20.47	22.61/25.12	20.86/21.31	1	65	10
1630	25	25	1 1	20.47	22.61/25.13	20.86/21.32	1	61	10
1700	25	25	1 1	20.47	22.61/25.13	20.86/21.33	1	57	9
1730	25	25	24.57/24.67	20.47	22.61/25.13	20.86/21.33	28.30	55	9
	Water Level	Change (feet)	4.00	0.09	0.97	-0.38	5.60	<u> </u>	
	Initial FP tl	nickness (feet)	0.01	NP	2.09	0.36	1.60	1	
	Final FP th	ickness (feet)	0.10	NP	2.52	0.47	NP	1	

NOTES:
AFVR event performed on May 14, 2010.
0.01, 2.09, 0.36, and 1.60 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

BTOC - below top of casing

ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NP - Not Present

TABLE 1A

AFVR Emissions Field Data - May 14, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

			AFV	R FIELI	MEASU	REMENTS						E	MISSION CALC	ULATIONS			
Date	Time	Vacuum (in. Hg)		Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM _e	K	C _{em} (mg/dsm3)	C _e (lb/dscf)	PMR _e (lb/hr)	PMR _g (lb/hr)	PMR _g (gal/hr)
5/14/2010	930	25	678	3	128	92.4	816	0:00	19.28	1,264.65	5,058.62	4	2,524.05	1.58E-04	0.18	0.21	0.03
5/14/2010	1000	26	689	3	144	89.3	454	0:30	19.08	703.62	2,814.48	4	1,404.31	8.77E-05	0.10	0.12	0.02
5/14/2010	1030	26	701	3	160	88.8	370	1:00	18.91	573.43	2,293.74	4	1,144.49	7.15E-05	0.08	0.09	0.02
5/14/2010	1100	26	712	3	160	88.2	254	1:30	19.20	393.65	1,574.62	4	785.67	4.90E-05	0.06	0.07	0.01
5/14/2010	1130	26	724	3	160	87.7	123	2:00	19.53	190.63	762.51	4	380.46	2.38E-05	0.03	0.03	0.01
5/14/2010	1200	26	733	3	160	86.5	116	2:30	19.77	179.78	719.12	4	358.81	2.24E-05	0.03	0.03	0.00
5/14/2010	1230	26	744	3	160	86.0	110	3:00	20.07	170.48	681.92	4	340.25	2.12E-05	0.03	0.03	0.00
5/14/2010	1300	26	754	3	160	85.5	106	3:30	20.34	164.28	657.12	4	327.88	2.05E-05	0.02	0.03	0.00
5/14/2010	1330	26	763	3	160	84.2	99	4:00	20.58	153.43	613.73	4	306.23	1.91E-05	0.02	0.03	0.00
5/14/2010	1400	26	772	3	160	82.6	91	4:30	20.82	141.03	564.14	4	281.48	1.76E-05	0.02	0.03	0.00
5/14/2010	1430	26	783	3	160	81.1	83	5:00	21.12	128.64	514.54	4	256.74	1.60E-05	0.02	0.02	0.00
5/14/2010	1500	26	791	3	160	79.4	76	5:30	21.34	117.79	471.15	4	235.08	1.47E-05	0.02	0.02	0.00
5/14/2010	1530	26	801	3	160	77.3	69	6:00	21.61	106.94	427.75	4	213.43	1.33E-05	0.02	0.02	0.00
5/14/2010	1600	26	812	3	160	75.6	65	6:30	21.90	100.74	402.95	4	201.06	1.26E-05	0.02	0.02	0.00
5/14/2010	1630	26	823	3	160	73.1	61	7:00	22.20	94.54	378.16	4	188.69	1.18E-05	0.02	0.02	0.00
5/14/2010	1700	26	834	3	160	71.4	57	7:30	22.50	88.34	353.36	4	176.31	1.10E-05	0.01	0.02	0.00
/14/2010	1730	26	842	3	160	69.0	55	8:00	22.71	85.24	340.96	4	170.13	1.06E-05	0.01	0.02	0.00
Average '	Values	26	762	3	157	82.2	177		20.64	273.95	1,095.82	4	546.77	3.41348E-05	0.04	0.05	0.01

Total Pounds of Carbon Recovered as Emissions: 0.34 Total Pounds of Gasoline Recovered as Emissions: 0.39 Total Gallons of Gasoline Recovered as Emissions: 0.06

NOTES:
AFVR event performed on May 14, 2010.
Vacuum applied to observation wells MW-4 and MW-17.
0.01, 2.09, 0.36, and 1.60 feet of free phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event Vapor concentrations measured using a portable MmiRAE* 2000 Photo-Ionization Detector (PID) inches of Hg - inches of mercury ppm - purity per million
Q_{att}, flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM_d - "dry" concentration

PPM_e - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - mumber of carbons in calibration gas

C_{me}, mass concentration of VOC emissions as carbon

PMR_e, pollutant mass removal of VOCs as carbon

PMR_e, pollutant mass removal of VOCs as gasoline

B_{mg}, Bo of water ger Bo of dry air

B_{mg}, water vaper % by volume

Calculations have been derived from published guidance

AFVR Gauging Data - June 3, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

			Monitoring	Well Gauging	Data			Air En	nissions
		Readings s of Hg)		Dept t	o Free Product/ (feet BTOC)	Water		Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-18	MW-2	MW-6	MW-15	MW-17	MW-18		
1000	25	25	21.91/21.94	22.06/24.15	20.64/20.98	21.26/21.74	21.96/22.28	427	17
1030	25	25	0.00/22.44		20.97/21.31	21.44/21.95		344	16
1100	25	25	0.00/22.94]	21.30/21.64	21.61/22.15		269	15
1130	25	25	0.00/23.25]	21.45/21.80	21.80/22.29		241	15
1200	25	25	0.00/23.55]	21.60/21.95	21.98/22.43		213	15
1230	25	25	0.00/23.68] .	21.66/22.01	22.04/22.58		183	14
1300	25	25	0.00/23.81	EVENT	21.71/22.06	22.10/22.72	EVENT	148	14
1330	25	25	0.00/23.93	Æ	21.76/22.11	22.16/22.86	Æ	124	14
1400	25	25	0.00/24.05	_	21.81/22.15	22.22/23.00	₩.	98	13
1430	25	25	0.00/24.12	AFVR	21.85/22.21	22.25/22.97	AFVR	95	13
1500	25	25	0.00/24.19] ¥	21.89/22.26	22.27/22.94	AF.	92	13
1530	25	25	0.00/24.27] `	21.95/22.31	22.30/22.91		90	12
1600	25	25	0.00/24.35]	22.00/22.35	22.33/22.88		87	12
1630	25	25	0.00/24.43]	22.05/22.4	22.36/22.86		84	13
1700	25	25	0.00/24.51]	22.10/22.45	22.38/22.83		81	12
1730	25	25	0.00/24.59		22.16/22.51	22.40/22.81		79	13
1800	25	25	0.00/24.67	27.74/27.75	22.21/22.56	22.42/22.79	26.40/26.41	77	12
	Water Level	Change (feet)	2.73	3.60	1.58	1.05	4.13		
	Initial FP th	ickness (feet)	0.03	2.09	0.34	0.48	0.32]	
	Final FP thi	ickness (feet)	NP	0.01	0.35	0.37	NP	1	

NOTES:

AFVR event performed on June 3, 2010.

0.03, 2.09, 0.34, 0.48, and 0.32 feet of free-phase petroleum was detected in MW-2, MW-15, MW-17, and MW-18 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

vapor concentrations measured using a portable similar 2000 photo-ionization detector (FiD).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NP - Not Present

TABLE 2A

AFVR Emissions Field Data - June 3, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929, Cost Agreement #38458 BLE Project Number J10-1010-15

			AFV	R FIELI	MEASU	REMENTS						E	MISSION CALC	ULATIONS			
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM _c	К	C _{em} (mg/dsm3)	C _e (lb/dsef)	PMR _c (lb/hr)	PMR _g (lb/hr)	PMR _g (gal/hr)
/3/2010	1000	25	702	3	150	92.3	427	0:00	18.31	695.74	2,782.95	- 4	1,388.58	8.67E-05	0.10	0.11	0.02
6/3/2010	1030	25	706	3	162	90.4	344	0:30	18.06	560.50	2,242.00	4	1,118.67	6.98E-05	0.08	0.09	0.01
/3/2010	1100	25	711	3	166	88.6	269	1:00	18.07	438.30	1,753.19	4	874.77	5.46E-05	0.06	0.07	0.01
/3/2010	1130	25	716	3	166	86.3	241	1:30	18.19	392.68	1,570.70	4	783.72	4.89E-05	0.05	0.06	0.01
/3/2010	1200	25	721	3	166	85.5	213	2:00	18.32	347.05	1,388.22	4	692.67	4.32E-05	0.05	0.06	0.01
/3/2010	1230	25	727	3	166	83.1	183	2:30	18.47	298.17	1,192.69	- 4	595.11	3.72E-05	0.04	0.05	0.01
/3/2010	1300	25	735	3	166	78.6	148	3:00	18.68	241.15	964.58	4	481.29	3.00E-05	0.03	0.04	0.01
/3/2010	1330	25	741	3	166	75.2	124	3:30	18.83	202.04	808.16	4	403.24	2.52E-05	0.03	0.03	0.01
/3/2010	1400	25	747	3	166	72.6	98	4:00	18.98	159.68	638.71	4	318.69	1.99E-05	0.02	0.03	0.00
/3/2010	1430	25	753	3	166	71.2	95	4:30	19.13	154.79	619.16	4	308.94	1.93E-05	0.02	0.03	0.00
/3/2010	1500	25	758	3	166	69.4	92	5:00	19.26	149.90	599.60	4	299.18	1.87E-05	0.02	0.02	0.00
/3/2010	1530	25	762	3	166	67.3	90	5:30	19.36	146.64	586.57	4	292.68	1.83E-05	0.02	0.02	0.00
/3/2010	1600	25	768	3	166	64.3	87	6:00	19.52	141.75	567.02	4	282.92	1.77E-05	0.02	0.02	0.00
/3/2010	1630	25	774	3	162	62.2	84	6:30	19.79	136.87	547.47	4	273.16	1.71E-05	0.02	0.02	0.00
/3/2010	1700	25	781	3	160	60.4	81	7:00	20.04	131.98	527.91	4	263.41	1.64E-05	0.02	0.02	0.00
/3/2010	1730	25	786	3	160	56.1	79	7:30	20.17	128.72	514.88	4	256.90	1.60E-05	0.02	0.02	0.00
/3/2010	1800	25	792	3	160	54.2	77	8:00	20.32	125.46	501.84	4	250.40	1.56E-05	0.02	0.02	0.00
Average '	Values	25	746	3	164	74.0	161		19.03	261.85	1,047.39	- 4	522.61	3.26264E-05	0.04	0.04	0.01

NOTES:
AFVR event performed on June 3, 2010.
Vacuum applied to observation wells MW-6 and MW-18.
0.03, 2.09, 0.34, 0.48, and 0.32 feet of free planse petroleum was detected in MW-2, MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event Vapor concentrations measured using a portable MmRAE[®] 2000 Photo-Ionization Detector (PID).
inches of Hg - inches of mercury
ppm--parts per million
Q_{ad}, flow at DSCPM
DSCFM-Dsy Standard Cubic Feet per Minute
PPM₄ - "dry" concentration

Total Pounds of Gasoline Recovered as Emissions: 0.34 Total Gallons of Gasoline Recovered as Emissions: 0.06

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas
C_{mc} mass concentration of VOC emissions as carbon
PMR_c pollutar mass removal of VOCs as carbon
PMR_c pollutar mass removal of VOCs as gasoline
B_{mc} is of water per B of dry air
B_{mc} water vayer 8 by volume
Calculations have been derived from published guidance

AFVR Gauging Data - June 29, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

	Monitoria	ng Well Gauging	Data		Air E	missions
	Vacuum Readings (inches of Hg)	Do	epth to Free Wa (feet BTOC)	ter	Influent	Effluent (ppm
Time	MW-3R	MW-3R	MW-13	MW-18	(ppm)	
0900	25	22.03	21.24	22.32	461	17
0930	25		21.35	22.37	373	16
1000	25		21.45	22.42	285	15
1030	25		21.53	22.46	240	15
1100	25	_	21.60	22.49	196	14
1130	25		21.65	22.53	189	14
1200	25	- E	21.70	22.57	183	14
1230	25	- -	21.73	22.59	178	13
1300	25	AFVR EVENT	21.76	22.60	174	13
1330	25	- X	21.79	22.62	168	13
1400	25		21.82	22.63	161	13
1430	25		21.84	22.65	147	13
1500	25		21.86	22.66	133	13
1500	25	-	21.89	22.69	120	13
1600	25	-	21.92	22.71	106	13
1630	25	7	21.95	22.74	93	12
1700	25	23.95	21.98	22.76	78	12
	Water Level Change (feet)	1.92	0.74	0.44		
i	Initial FP thickness (feet)	NP	NP	NP	1	
1	Final FP thickness (feet)	NP	NP	NP	1	

NOTES:

AFVR event performed on June 29, 2010.

No free-phase petroleum was detected prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE $^{\oplus}$ 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water;

positive = drawdown; negative = rise

NP - Not Present

TABLE 3A

AFVR Emissions Field Data - June 29, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

								WEL	L ID #:	MW-3I	₹						
		Select of	AFV	R FIELI	MEASU	REMENTS						EN	IISSION CALC	ULATIONS	15 54	ed	,
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM _c	K	C _{cm} (mg/dsm3)	C _e (lb/dscf)	PMR _e (lb/hr)	PMR _g (lb/hr)	PMR _g (gal/hr
6/29/2010	900	26	702	3	140	91.2	461	0:00	20.47	682.89	2,731.55	4	1,362.94	8.51E-05	0.10	0.12	0.02
6/29/2010	930	26	692	3	146	90.5	373	0:30	19.98	552.53	2,210.12	4	1,102.77	6.88E-05	0.08	0.10	0.02
5/29/2010	1000	26	680	3	150	89.5	285	1:00	19.50	422.17	1,688.70	4	842.60	5.26E-05	0.06	0.07	0.01
6/29/2010	1030	26	671	3	156	88.2	240	1:30	19.06	355.52	1,422.06	4	709.55	4.43E-05	0.05	0.06	0.01
6/29/2010	1100	26	664	3	158	87.4	196	2:00	18.80	290.34	1,161.35	4	579.47	3.62E-05	0.04	0.05	0.01
5/29/2010	1130	26	660	3	160	86.4	189	2:30	18.63	279.97	1,119.87	4	558.77	3.49E-05	0.04	0.05	0.01
5/29/2010	1200	26	654	3	160	85.1	183	3:00	18.46	271.08	1,084.32	4	541.04	3.38E-05	0.04	0.04	0.01
5/29/2010	1230	26	648	3	160	84.5	178	3:30	18.29	263.67	1,054.70	4	526.25	3.29E-05	0.04	0.04	0.01
6/29/2010	1300	26	642	3	160	82.6	174	4:00	18.12	257.75	1,031.00	4	514.43	3.21E-05	0.03	0.04	0.01
6/29/2010	1330	26	637	3	160	81.5	168	4:30	17.98	248.86	995.44	4	496.69	3.10E-05	0.03	0.04	0.01
6/29/2010	1400	26	632	3	160	78.2	161	5:00	17.84	238,49	953.97	4	475.99	2.97E-05	0.03	0.04	0.01
5/29/2010	1430	26	626	3	158	76.3	147	5:30	17.72	217.75	871.01	4	434.60	2.71E-05	0.03	0.03	0.01
5/29/2010	1500	26	620	3	154	74.3	133	6:00	17.67	197.01	788.06	4	393.21	2.45E-05	0.03	0.03	0.00
5/29/2010	1500	26	614	3	154	72.6	120	6:00	17.50	177.76	711.03	4	354.78	2.21E-05	0.02	0.03	0.00
6/29/2010	1600	26	606	3	154	71.5	106	7:00	17.27	157.02	628.08	4	313.39	1.96E-05	0.02	0.02	0.00
6/29/2010	1630	26	598	3	154	68.8	93	7:30	17.04	137.76	551.05	4	274.95	1.72E-05	0.02	0.02	0.00
5/29/2010	1700	26	590	3	154	65.1	78	8:00	16.81	115.54	462.17	4	230.61	1.44E-05	0.01	0.02	0.00
Average V	Values	26	643	3	155	80.8	193		18.30	286.24	1,144.97	4	571.30	3.5666E-05	0.04	0.05	0.01

NOTES:

AFVR event performed on June 29, 2010.

Vacuum applied to observation wells MW-3R.

No fee-plane pertolenum was detected prior to imitating the AFVR event

Vapor concentrations measured using a portable MmiRAE® 2000 Photo-Ionization Detector (PID) inches of Hg. - inches of Hg.

Total Pounds of Carbon Recovered as Emissions: 0.31 Total Pounds of Gasoline Recovered as Emissions: 0.36 Total Gallons of Gasoline Recovered as Emissions: 0.06

 $\label{eq:power_$

AFVR Gauging Data - July 14, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

	Monitoria	ng Well Gauging D	ata		Air Emi	ssions
Γ	Vacuum Readings (inches of Hg)	Depth to	o Free Produc (feet BTOC)	t/ Water	Influent (ppm)	Effluent (ppm)
Time	MW-15	MW-6	MW-14	MW-15	1 1	(Ppm)
0930	25	22.85/24.30	21.27	21.48/21.79	387	16
1000	25	22.91/24.42	21.46	1	325	15
1030	25	21.65/24.54	21.65	1	264	14
1100	25	23.01/24.59	21.81	1	213	14
1130	25	23.05/24.63	21.97	1	163	13
1200	25	23.10/24.68	22.13	1	120	13
1230	25	23.14/24.72	22.29	1 E	76	12
1300	25	23.17/24.76	22.41	AFVR EVENT	74	12
1330	25	23.19/24.80	22.52	₩.	71	12
1400	25	23.22/24.84	22.64	1 🐔	68	12
1430	25	23.25/24.88	22.76	1 5	65	12
1500	25	23.28/24.92	22.87	1	63	11
1530	25	23.31/24.95	22.98	1	60	11
1600	25	23.35/24.51	22.52	1	57	11
1630	25	23.39/24.07	22.05	1	55	11
1700	25	23.44/24.63	22.59	1	53	11
1730	25	23.48/25.18	23.12	25.25/25.3	49	11
\neg	Water Level Change (feet)	0.88	1.85	3.51	<u> </u>	
	Initial FP thickness (feet)	1.45	NP	0.31	1	
	Final FP thickness (feet)	1.70	NP	0.05	1	

NOTES:

AFVR event performed on July 14, 2010.

1.45 and 0.31 feet of free-phase petroleum was detected in MW-6 and MW-15 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NP - Not Present

TABLE 4A

AFVR Emissions Field Data - July 14, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929, Cost Agreement #38458 BLE Project Number J10-1010-15

								WE	LL ID #:	MW-15	5						
		x 50	AFV	R FIELD	MEASU	REMENTS	10.	v.		OK		E	MISSION CALC	ULATIONS		Y: /	670
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM_{ϵ}	K	C _{cm} (mg/dsm3)	C _e (lb/dscf)	PMR _c (lb/hr)	PMR _g (lb/hr)	PMR, (gal/hr
/14/2010	930	26	340	3	128	91.5	387	0:00	10.76	538.86	2,155.46	4	1,075.49	6.71E-05	0.04	0.05	0.01
/14/2010	1000	26	345	3	150	88.2	325	0:30	10.53	452.53	1,810.14	4	903.19	5.64E-05	0.04	0.04	0.01
/14/2010	1030	26	351	3	152	85.7	264	1:00	10.68	367.60	1,470.39	4	733.67	4.58E-05	0.03	0.03	0.01
/14/2010	1100	26	356	3	158	83.1	213	1:30	10.72	296.58	1,186.34	4	591.94	3.70E-05	0.02	0.03	0.00
/14/2010	1130	26	362	3	158	81.4	163	2:00	10.90	226.96	907.85	4	452.98	2.83E-05	0.02	0.02	0.00
14/2010	1200	26	369	3	158	78.2	120	2:30	11.11	167.09	668.36	4	333.48	2.08E-05	0.01	0.02	0.00
/14/2010	1230	26	377	3	158	75.8	76	3:00	11.36	105.82	423.29	4	211.21	1.32E-05	0.01	0.01	0.00
/14/2010	1300	26	386	3	160	73.2	74	3:30	11.59	103.04	412.15	4	205.65	1.28E-05	0.01	0.01	0.00
/14/2010	1330	26	393	3	160	71.5	71	4:00	11.80	98.86	395.45	4	197.31	1.23E-05	0.01	0.01	0.00
/14/2010	1400	26	405	3	160	67.3	68	4:30	12.16	94.68	378.74	4	188.97	1.18E-05	0.01	0.01	0.00
/14/2010	1430	26	411	3	160	65.1	65	5:00	12.34	90.51	362.03	4	180.64	1.13E-05	0.01	0.01	0.00
/14/2010	1500	26	418	3	160	62.4	63	5:30	12.55	87.72	350.89	4	175.08	1.09E-05	0.01	0.01	0.00
/14/2010	1530	26	426	3	160	58.4	60	6:00	12.79	83.54	334.18	- 4	166.74	1.04E-05	0.01	0.01	0.00
/14/2010	1600	26	434	3	160	53.5	57	6:30	13.03	79.37	317.47	4	158.41	9.89E-06	0.01	0.01	0.00
/14/2010	1630	26	445	3	160	48.2	55	7:00	13.36	76.58	306.33	4	152.85	9.54E-06	0.01	0.01	0.00
/14/2010	1700	26	452	3	160	45.6	53	7:30	13.57	73.80	295.19	4	147.29	9.20E-06	0.01	0.01	0.00
/14/2010	1730	26	462	3	160	42.3	49	8:00	13.87	68.23	272.91	4	136.17	8.50E-06	0.01	0.01	0.00
Average V	alues	26	396	3	157	68.9	127		11.95	177.16	708.66	4	353.59	2.20748E-05	0.02	0.02	0.00

Total Pounds of Carbon Recovered as Emissions: 0.13 Total Pounds of Gasoline Recovered as Emissions: 0.15 Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:

AFVR event performed on July 14, 2010.

Vacuum applied to observation wells MW-15.

1.45 and 0.31 feet of fixe plane protoleum was detected in MW-6 and MW-15 prior to imitating the AFVR event Vapor concentrations measured using a portable MmiRAE* 2000 Photo-Ionization Detector (PID) inches of Hig- niches of Hig- niches of Hig- niches of Hig- standard Cubic Feet per Minute DSCRM - Dys Standard Cubic Feet per Minute PPM₄ : "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas
C_{mc} mass concentration of VOC emissions as carbon
PMR_c pollutar mass removal of VOCs as carbon
PMR_c pollutar mass removal of VOCs as gasoline
B_{mc} is of water per B of dry air
B_{mc} water vayer 8 by volume
Calculations have been derived from published guidance

AFVR Gauging Data - July 29, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

	M	onitoring Well C	Gauging Data			Air En	nissions
	Vacuum Readings (inches of Hg)			Product/ Water BTOC)		Influent (ppm)	Effluent (ppm)
Time	MW-6	MW-6	MW-15	MW-17	MW-18	1	
0930	25	23.02/24.37	21.63/21.95	22.11/22.60	0.00/22.81	178	13
1000	25	I	21.73/21.98	22.25/22.82	0.00/22.945	128	12
1030	25	1	21.82/22.00	22.38/23.03	23.07/23.08	63	11
1100	25	1	21.83/22.02	22.42/23.01	23.09/23.10	61	11
1130	25	1	21.83/22.03	22.46/23.08	23.10/23.11	60	11
1200	25	1	21.83/22.06	22.48/23.09	23.12/23.13	62	11
1230	25	AFVR EVENT	21.83/22.09	22.49/23.10	23.13/23.14	62	11
1300	25	Æ	21.84/22.10	22.49/23.10	23.14/23.16	60	10
1300	25	<u> </u>	21.84/22.11	22.48/23.10	23.15/23.17	61	10
1330	25] ===	21.84/22.12	22.48/23.13	23.16/23.18	63	10
1400	25] ' }	21.84/22.13	22.48/23.15	23.17/23.18	60	11
1430	25	1	21.84/22.13	22.48/23.16	23.18/23.19	62	11
1500	25	1	21.84/22.13	22.48/23.17	23.19/23.20	63	11
1530	25	1	21.84/22.13	22.48/23.17	23.21/23.22	60	11
1600	25	1	21.84/22.13	22.48/23.17	23.22/23.23	61	10
1630	25	l	21.77/22.04	22.33/22.92	23.23/23.24	60	10
1700	25	27.40/27.45	21.70/21.94	22.1822.66	23.24/23.25	62	10
	Water Level Change (feet)	3.08	-0.01	0.06	0.44		
	Initial FP thickness (feet)	1.35	0.32	0.49	NP]	
Г	Final FP thickness (feet)	0.05	0.24	0.48	0.01	1	

AFVR event performed on July 29, 2010.

1.53, 0.32, and 0.49 feet of free-phase petroleum was detected in MW-6, MW-15, and MW-17 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NP - Not Present

TABLE 5A

AFVR Emissions Field Data - July 29, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929, Cost Agreement #38458 BLE Project Number J10-1010-15

								WE	LL ID #:	MW-6							
		z (2)	AFV	R FIELE	MEASU	REMENTS		6.		TO 00		E	MISSION CALC	ULATIONS		15	77.
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM _e	К	C _{cm} (mg/dsm3)	C _e (lb/dscf)	PMR _c (lb/hr)	PMR _g (lb/hr)	PMR _i (gal/hr
7/29/2010	930	25	1,113	3	140	92.7	178	0:00	29.59	289.24	1,156.98	4	577.29	3.60E-05	0.06	0.07	0.01
7/29/2010	1000	25	1,087	3	156	91.3	128	0:30	28.15	208.00	831.99	4	415.13	2.59E-05	0.04	0.05	0.01
7/29/2010	1030	25	1,052	3	160	90.5	63	1:00	27.06	102.37	409.49	4	204.32	1.28E-05	0.02	0.02	0.00
7/29/2010	1100	25	1,037	3	164	88.2	61	1:30	26.51	99.12	396.49	4	197.83	1.24E-05	0.02	0.02	0.00
7/29/2010	1130	25	1,021	3	164	86.3	60	2:00	26.10	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
/29/2010	1200	25	1,004	3	164	84.7	62	2:30	25.66	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
7/29/2010	1230	25	983	3	164	82.9	62	3:00	25.13	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
7/29/2010	1300	25	963	3	164	81.4	60	3:30	24.62	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1300	25	942	3	164	79.1	61	3:30	24.08	99.12	396.49	4	197.83	1.24E-05	0.02	0.02	0.00
7/29/2010	1330	25	920	3	160	77.1	63	4:00	23.67	102.37	409.49	4	204.32	1.28E-05	0.02	0.02	0.00
7/29/2010	1400	25	899	3	164	75.5	60	4:30	22.98	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1430	25	875	3	164	73.4	62	5:00	22.37	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
//29/2010	1500	25	855	3	164	72.5	63	5:30	21.85	102.37	409.49	4	204.32	1.28E-05	0.02	0.02	0.00
7/29/2010	1530	25	833	3	164	71.2	60	6:00	21.29	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
7/29/2010	1600	25	817	3	160	69.1	61	6:30	21.02	99.12	396.49	4	197.83	1.24E-05	0.02	0.02	0.00
/29/2010	1630	25	802	3	160	67.6	60	7:00	20.63	97.50	389.99	4	194.59	1.21E-05	0.02	0.02	0.00
/29/2010	1700	25	788	3	160	65.2	62	7:30	20.27	100.75	402.99	4	201.08	1.26E-05	0.02	0.02	0.00
Average '	Values	25	941	3	161	79.3	72		24.17	117.19	468.76	4	233.89	1.46018E-05	0.02	0.02	0.00

Total Pounds of Carbon Recovered as Emissions: 0.17 Total Pounds of Gasoline Recovered as Emissions: 0.20 Total Gallons of Gasoline Recovered as Emissions: 0.03

NOTES:

AFVR event performed on July 29, 2010.

Vacuum applied to observation wells MW-6.

1.53, 0.32, and 0.49 feet of free plane petroleum was detected in MW-6, MW-15, and MW-17 prior to initiating the AFVR event Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID) inches of Hig-raches of Hige-raches of Mini-RAE and MW-18 prior parts per million

Q_M, flow at DSCFM

DSCFM—Dy Standard Cubic Feet per Ministe

PPM_M - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas
C_{mc} mass concentration of VOC emissions as carbon
PMR_c pollutar mass removal of VOCs as carbon
PMR_c pollutar mass removal of VOCs as gasoline
B_{mc} is of water per B of dry air
B_{mc} water vayer 8 by volume
Calculations have been derived from published guidance

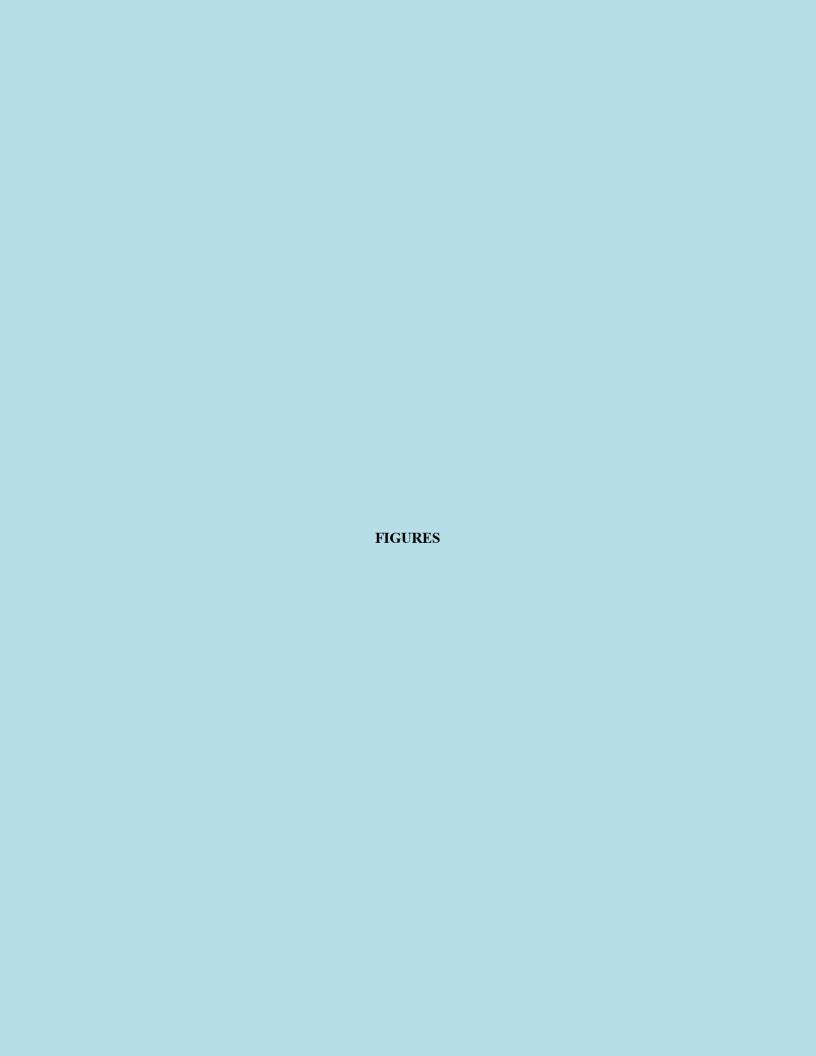
Post AFVR Gauging Data - August 16, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #38458 BLE Project Number J10-1010-15

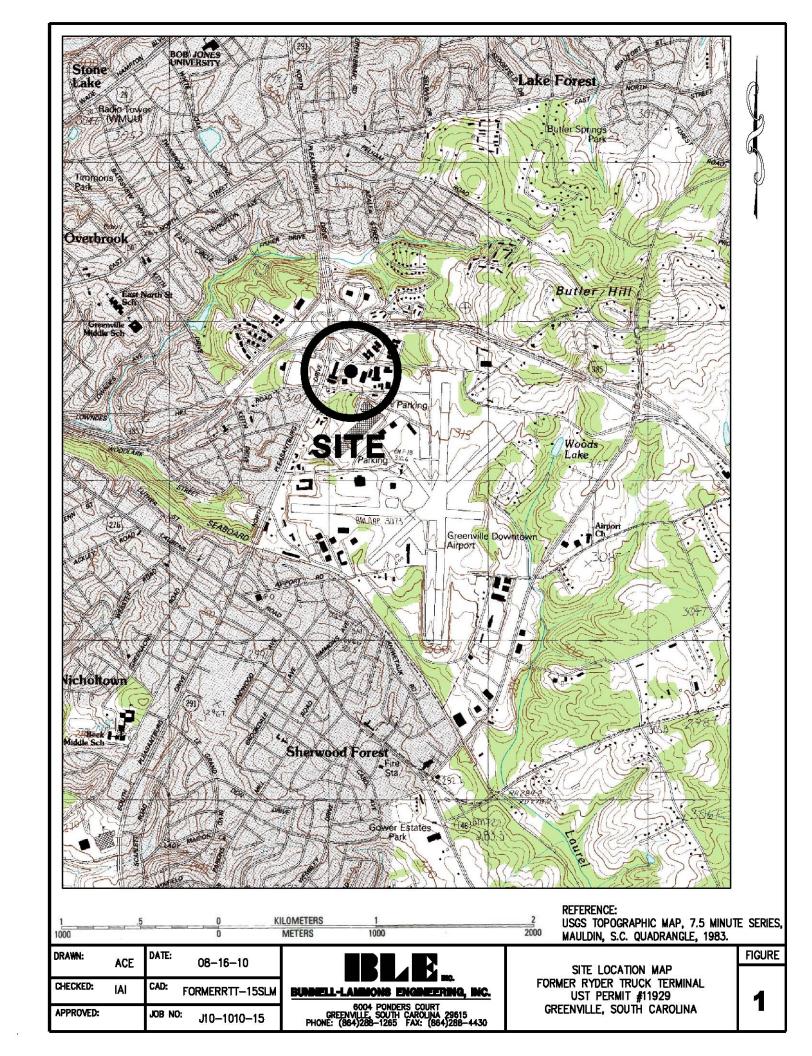
Well ID	MW-2	MW-3R	MW-4	MW-6	MW-15	MW-17	MW-18
Depth to Free-Product / Groundwater	23.15 / 23.17	22.90 / 22.91	21.96 / 22.52	23.51 / 24.54	22.91 / 23.18	22.60 / 23.01	23.22
Free-Product Thickness (ft)	0.02	0.01	0.56	1.03	0.27	0.41	None

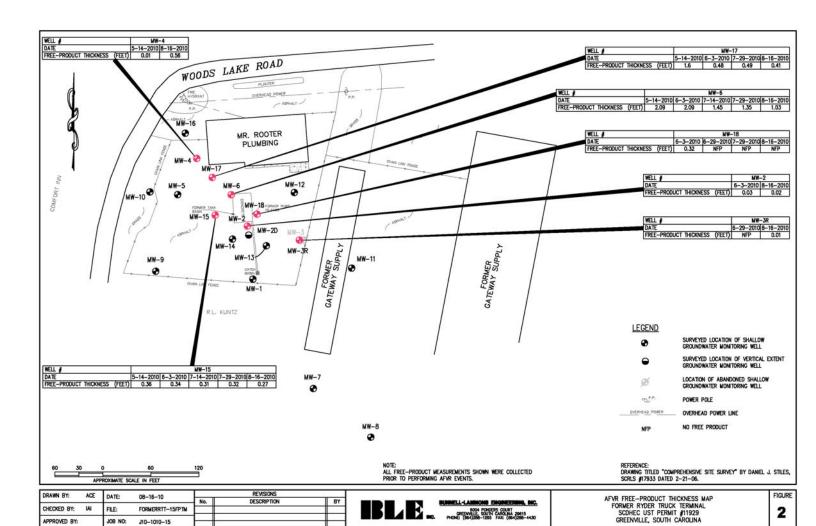
NOTES:

Measurements are in feet below top of casing

Prepared By: IAI Checked By: TJB









APPENDIX A

AFVR EVENTS WATER DISPOSAL MANIFESTS

NON-HAZARDOUS WASTE MANIFEST

Pleas	print or type (Form designed for use on elite (12 pitch) typewriter)		T	Manifest	00	2. Page 1
	NON-HAZARDOUS 1. Generator's US EPA ID No. WASTE MANIFEST			Document No.	385	of 1
	3. Generator's Name and Mailing Address C/O Caro-Vac AF FORMY Ryder Truck Try P. O. Box 9 Company of the Com	VR Services, 1 996 2 29662	LLC			en e
	5 Transporter 1 Company Name 6.	US EPA ID Number		A. State Trans		
100	Caro-Vac AFVR Services, LLC			B. Transporter C. State Trans		57-9744
	7. Transporter 2 Company Name 8.	US EPA ID Number		D. Transporter	The second secon	
	9. Designated Facility Name and Site Address VLS Recovery Services, LLC	US EPA D Number SCR000762468		E. State Facilit	and the second s	
	305 South Main Street			F. Facility's Ph	864-9	52-9953
	Mauldin, SC 29662		12. Co	ntainers	13. Total Quantity	14. Unit
	•		No.	Туре	Quantity	Wt./Vol.
	Petroleum Impacted Water, Prof	ile # 6229			375	19
G	b.			ē		
GEZER						
R	C			1		
A						
OR	d.					
	G. Additional Descriptions for Materials Listed Above		<u> </u>	H. Handling C	Codes for Wastes Listed Abor	/c
						=
	15. Special Handling Instructions and Additional Information			20 000		
	SC	CDHEC Site ID	#	1192	29.	
	16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipmer in proper condition for transport. The materials described on this manifest are not set.	nt are fully and accurately described ubject to federal hazardous waste re	and are in gulations.	all respects	107	- Commenter of the Comm
						Date
	Printed Typed Name Bradley A. Morris (Agent for Gen.)	SignarQB	Λ	_ XA		Day Year
F	17. Transporter 1 Acknowledgement of Receipt of Materials	1 maar	7	1	come 2	Date
TRAZOPORTUR	Printed/Typed Name	Signature		1 1	1 May	Day Year
SP	Bradley A. Morris	Brade	7 /	+,	vi aus	>1241/C
Ŗ	18. Transporter 2 Acknowledgement of Receipt of Materials Printed/Typed Name	Signature	/		260	Date nth Day Year
ER	,,				Mo	uii Day 16ar
F	19. Discrepancy Indication Space					
AC						
-1-	20. Facility Owner or Operator, Certification of receipt of the waste materials covered b VT ₁ S	y this manifest, except as noted in its	em 19.			
-	Printed/Turned Name	Signature	Mileson and a	a seemar terrain	Mo	Date
Ÿ	Brian Tripp	Bun Try	_		MOI	Day Year

NON-HAZARDOUS WASTE MANIFEST

Please	NON-HAZARDOUS	1. Generator's US EPA	ID No.		Manifest	200	2.	Page 1
	WASTE MANIFEST				Document No.	396		of 1
* 33		- Como 370	a AFID Carvided	T.T.C				
	3. Generator's Name and Mailing Address C/ Former Ryder Truck Termin	o Caro-va	C AFVR SELVICES,	יייי				
	10 LOCODS LAKE RD.							
Man	Geogrator's Phone (1.5)	Mauldin	, SC 29662					
	5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transp	ociter's ID		
	Caro-Vac AFVR Servi	ces, LLC	1		B. Transporter	1 Phone 864	-96	7-9744
-	7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transp	oorter's ID		
	7. 11415-2012				D. Transporter	2 Phone s		1
100	9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facilit	y's ID		
	9. Designated Facility Name and Site Address VLS Recovery Servi	ces, LLC	SCR000762468	i i				
	305 South Main Str	reet	501000702400		F. Facility's Ph	one 864	-962	2-9953
	Mauldin, SC 29662							-
	11. WASTE DESCRIPTION			12. Co	ntainers	13. Total		14. Unit
	*			No.	Турв	Quantity	- Marie Control Control	Wt./Vol.
11.0	a.					0-		
	Petroleum Impacte	ed Water,	Profile # 6229			405	\mathcal{O}	9
				<u> </u>				<u> </u>
G	b.							
G E N								1
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0		anangan comment of the second comment						-
R	d.							
	*							
	G. Additional Descriptions for Materials Listed Abov	<u> </u>			H. Handling C	odes for Wastes Liste	ed Above	
	G. Additional Descriptions for Materials dated Addi	-						
1								
	15. Special Handling Instructions and Additional Inf	ormation						
Man	X				110	2 0		
			SCDHEC Site ID	#	177	19.	,	
100						1		
	DONE ANSWER ANSWER AND A				AND A			
阿	46 OFNEDATORIA OFNEDATORIA	different three seasons are	his shipmont are belts and anatomicals decided	d and coo	all recreate			
	 GENERATOR'S CERTIFICATION: I hereby ce in proper condition for transport. The materials 	tescribed on this manifes	at are not subject to federal hazardous waste r	egulations.	. un respects			
					1			Date
1993	Printed/Typed Name		Signalure A	Λ	11	~	Month	Day Year
	Bradley A. Morris (Ag	ent for G	en.) / Stadle	4.	14 m	M	0	14-110
T	17. Transporter 1 Acknowledgement of Receipt of I	Materials			A			Date
A	Printed/Typod Name		Signature	A	17	~	Month	Day Year
-mazspom-en	Bradley A. Morris		15radh	4	141	Luns	40	14 110
lo D	18. Transporter 2 Acknowledgement of Receipt of I	/laterials						Date
T	Prioted/Typed Name		Signature				Month	Day Year
R				nandom kratinadona	-		And the Control of Street, and	
F	19. Discrepancy Indication Space							
A								
C								
	20. Facility Owner or Operator; Certification of tece	pt of the waste materials	covered by this manifest, except as noted in	item 19				
L				/_				Date
T	Printed/Typed Name		Signature		-00	3-	Month	Day Year
	Char & 12	Som		4	bur	7-	0	1/10

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL SOLID AND HAZARDOUS WASTE MANAGEMENT DIV 2600 BULL ST., COLUMBIA, SC 29201 PHONE: (803) 896-8940

MANIFEST DOCUMENT NUMBER

Nº 13463

A. Name		1.0). Code	Code Address		Phone Number Area Code and Number	Date Shipped Or Accepted			
(1) Transporter No. 1				1377.5 E. Wade Hampton Blvd.			10 / 29			
M&M Waste Oil SCR000		000006379		SC 29651	(864) 877-7737	year / month /29				
(2) Trans	sporter No. 2			iff						
(3) TSDI								year month day		
(1) Cont	ainers	(2) DOT Proper S	Shipping Name/	(3) Total	(4) Waste Collected Fro	om	(5) Signature of person from	whom waste is collected or their		
No.	Type Hazard Class/DO		T I.D. Number	Quantity	Name and Address		authorized Agent.			
	Bulk	Retroleum-Importer		660g	Torner Ruder Truck From 10 WOODS LAKE RD GRENNIK SC SITEID		Bradly M	laur Bradley Morris		
							Signature	Print Name		
							Signature	Print Name		
							W			
							Signature	Print Name		
					-		Signature	Print Name		
TOTAL	GALLONS	UNLOADED	P/	***************************************		COMMENTS	٩.			
Emergency Response Information: In the event of an emergency, phone the transporter at: (864) 877-7737					In the event of a spill in Department at (803) 25	n South Carolina, call the 53-6488	D. Special Handling Instru	ctions:		
(00+) 011-1731						DO NOT SPILL	DO NOT SPILL			
I here	by certify the	Il applicable regulati	azardous Waste Tri ions in the U.S. DO	T, U.S. EPA, the	state, that the above infor S.C. PSC and the S.C. DHE itchell Mason, Owner	EC.	pest of my knowledge and belief and $6-29-/$			
Signature - Driver					nt Name and Title		Date			
delive	ry to the TS	at I am an authorized DF identified above.	representative of	the permitted tra	nsporter and that the was	te and quantity described	d in this Manifest have been accepte	d by us for ultimate		
Transp	orter No. 2	Signature		Pri	nt Name and Title		Date	Date		
I here	by certify the	at I am an authorized sposal.	representative of			ste and quantity describe	ed in this Manifest have been accepte	ed by me for treatment,		
Signature				Pri	nt Name and Title		Date	Date		

MANIFEST

SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL SOLID AND HAZARDOUS WASTE MANAGEMENT DIV 2600 BULL ST., COLUMBIA, SC 29201 PHONE: (803) 896-8940

MANIFEST DOCUMENT NUMBER

№ 12990

A. Name		I.D. Code		Address		Phone Number Area Code and Number		Date Shipped Or Accepted			
(1) Tran	sporter No. 1	1	,		13775, E. Wade	Hampton Blyd.			120 9 116		
	M&M Waste Oil SCR000006379		00006379	Greer, SC 29651		(864) 877-7737		/vear / month / day			
(2) Transporter No. 2			Σ'								
(3) TSD				ed a constant					1 , ,		
(1) Conf	ainers	(2) DOT Proper S	hipping Name/	(3) Total	(4) Waste Collected Fro	m		(5) Signature of person from	year month day whom waste is collected or their		
No.	Type Hazard Class/DO				Name and Address			authorized Agent.			
	Bulk	Detroleum-		575g	Greenville,	scare ro	mi na	Bradly Manu Signature	- Bradby Morris		
					SITEIN	- 11929					
								Signature	Print Name		
								Signature	Print Name		
								CALL THE STATE OF			
		-						Signature	Print Name		
				9							
								Signature	Print Name		
TOTAL	GALLONS	UNLOADED				COMMENTS					
Emer	gency Respo	onse Information:			In the event of a spill in		the	D. Special Handling Instru	ctions:		
		emergency, phone th	e transporter at:		Department at (803) 25	3-6488					
(864	(864) 877-7737							DO NOT SPILL			
l here	by certify the	at I am a Permitted H	azardous Waste Tro	ansporter in th	e state, that the above informe S.C. PSC and the S.C. DHE	mation is correct to the	he best of	my knowledge and belief and	is being transported in		
	onsi	a Alu			Mitchell Mason, Owner			7-14-	/O		
	ture - Driver	,			rint Name and Title			Date			
delive	ry to the TSI	DF identified above.	representative of t	he permitted to	ransporter and that the wast	e and quantity descr	ibed in this	s Manifest have been accepte	d by us for ultimate		
Trans	oorter No. 2	Signature		P	rint Name and Title			Date			
		at I am an authorized	representative of t	he TSDF ident	ified above and that the was	te and quantity desc	ribed in th	is Manifest have been accept	ed by me for treatment,		
Signature				— P	Print Name and Title			Date	Date		

MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Pleas	print or type (Form designed for use on elite (12 pitch; typewriter)	and the second and the second and the second are a transfer or the second				
	NON-HAZARDOUS 1. Generator's US EPA ID Ho. WASTE MANIFEST			Manifest Document No.	403	2. Page 1 0(1
	Former Ryder Truck, P O Box 996		LLC		والمنافرة والمنا	
	Greenville, SC Mauldin, SC	29662		-		
	5. Transporter 1 Company Namo 6.	US EPA ID Number		A. State Trans	cater's ID	
	Caro-Vac AFVR Services, LLC			B. Transports:	1 Fhome 864-967	9744
	7. Transporter 2 Company Name 8.	US EPA ID Number		C. State Trans	porter's ID	
	M & M Waste Oil, LLC				2 Prione 864 - 877 -	
	E. Designated Facility Name and Site Address M & M Waste Oil, LLC	US EPA IO Number		E. State Facilit	SCR00000	6379
	13775 East Wade Hampton Blvd.			F. Factility's Ph	ona	and the second s
	Greer, South Carolina 29651				864-,877-	-7737
1	11. WASTE DESCRIPTION	And the state of t	12 C	niamera	13. Totál Ouanlity	14. Unit
			No.	Тура	Opanity	Wt.Vol.
	Petroleum-Impacted Water		a quadratura de la constanta d		250	9
G	b.	, digitalization of the state o	_			
EZ						ap.
E					~**************	-
A	c.					
A						
OR	G.	A. San Marine Co.	-			1
	C. Additional Description for Heavis District Control of the Contr			N. Macdies C	des for Wastes Listed Above	
	G. Additional Descriptions for Materials Listed Above			n. nenonty o	Ales for Mases Listed Apriles	
100						
100						
	15. Special Handling Instructions and Additional Information				and the second s	***************************************
	SCDHEC Si	te ID #	192	9	11 ×	
	16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this enigment	nt are fully and accurately describ	ed and are in	all respects	The second secon	
	in proper condition for transport. The materials described on this manifest are not su	uojest to tederar nazardous Waste	тединаполіз.		(egisted) to see	
1	to the state of th	g alam elle annotation and garage from the annotation of the annotation of the annotation of the annotation of				Date
	Printed/Typed Name	Signature	0	Λ	A Wenth	Day Your
-	Bradley A. Morris (Agent for Gen.)	1 200	~	14.	Jum 8	14 110
R	17. Transporter 1 Acknowledgement of Receipt of Materials	I Oleanhar		nagene and a factor while incline		Date
N	Bradley A. Morris	Signature			Month	Day Year
TEAZSSOCI-ME	18. Transporter 2 Acknowledgement of Receipt of Materials	<u> </u>		-		Date
B	PrintedTyped Name	Signaturen			Menth	
E E	(M & M Waste Oil, LLC Driver)	Loa W	N		•	
F	19. Discrepancy Indication Space	,				
A	2 :					
C	20. Facility Owner or Operator: Certification of receipt of the weste materials covered by	this manifest executes noted in	item 10			
L	M & M Waste Oil, LLC	eus meumest, except as noted in	usu Is.			Date
100	Printed/Typed Name Mitch Mason	Signature	6	MA	Month	Day Year
A	MILCH MASON	MUVVV	1//	100		



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602

MAR 10 2011



Re:

AFVR Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929; CA # 40379
Release #2 reported February 25, 1997
AFVR Report received September 10, 2010
Greenville County

Dear Ms. Mumbauer

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report and the next necessary scope of work is five Aggressive Fluid/Vapor Recovery (AFVR) events to remove free phase product from monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. Please conduct the AFVR events 15 days apart in the following order: the 1st AFVR event on MW-4 and MW-17; the 2nd AFVR event on MW-6 and MW-18; the 3rd AFVR event on MW-3R; the 4th AFVR event on MW-15; and the 5th AFVR event on MW-6.

Cost Agreement # 40379 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR and gauging activities may proceed immediately upon receipt of this letter. The AFVR Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather conditions during the AFVR event.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.
- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).
- The total volume of free phase product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An AFVR report and invoice are due within 120 days from the date of this letter. Interim invoices may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Department grants pre-approval for transportation of virgin petroleum impacted groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence or inquiries regarding this project, please reference **UST Permit # 11929**. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brinevsm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Cost Agreement

CC:

Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/ enc)

Technical File (w/ enc)

Approved Cost Agreement 40379

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	<u>Unit Price</u>	Amount
04 MOB/DEMOB				
	A EQUIPMENT	5.0000	575.00	2,875.00
	B PERSONNEL	5.0000	290.00	1,450.00
17 DISPOSAL				
	A2 WASTEWATER - PUMPING TEST	5,000.0000	0.60	3,000.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	23,725.00	3,558.75
23 EFR				
	A 8 HOUR EVENT	5.0000	3,000.00	15,000.00
	C OFF GAS TREATMENT	40.0000	35.00	1,400.00
		Total Amo	ount	27,283.75

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AFVR Gauging Data - March 15, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

	Monitor	ing Well Gaugi	ing Data			ir sions
	Vacuum Readings (inches of Hg)	Depth	to Free Product (feet BTOC)	/ Water	Influent	Effluen
Time	MW-15	MW-14	MW-6	MW-15	(ppm)	(ppm)
1000	27.0	24.46	27.66/29.90	24.65/25.70	271	1
1030	27.0	24.71	26.89/29.00		1,080	1
1100	27.0	24.95	26.11/28.10		1,541	1
1130	27.0	25.18	26.18/28.24	1	1,520	1
1200	26.5	25.40	26.25/28.38	1	1486	1
1230	26.5	25.49	26.29/28.42	1	1158	1
1300	26.5	25.58	26.33/28.46		924	1
1330	26.5	25.65	26.36/28.48	AFVR EVENT	1137	1
1400	26.5	25.71	26.39/28.50		1058	1
1430	26.5	25.76	26.42/28.53	😤	889	1
1500	26.5	25.81	26.45/28.55		852	1
1530	26.5	25.84	26.46/28.58	1 ' I	816	1
1600	26.5	25.86	26.47/28.60		828	1
1630	26.5	25.86	26.48/28.61		923	1
1700	26.5	25.87	26.49/28.63		865	1
1730	26.5	25.88	26.49/28.62		796	1
1800	26.5	25.89	26.49/28.63	27.95	813	1
	Water Level Change (feet)	1.43	0.97	2.25		
	Initial FP thickness (feet)	NFP	2.24	1.05		
	Final FP thickness (feet)	NFP	0.13	NFP		

NOTES:

AFVR event performed on March 15, 2011.

 $2.24\ and\ 1.05\ \ feet$ of free-phase petroleum was detected in MW-6 and MW-15 prior to

initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - Not free-phase petroleum product present



TABLE 1A

AFVR Emissions Field Data - March 15, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11927, Cost Agreement #40379 BLE Project Number J11-1010-16

								WE	LL ID #:	MW-1:	5						
			AFV	R FIELD	MEASU	REMENTS						E	MISSION CALC	ULATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q _{std}	PPM _d	PPM,	K	C _{cm}	C _c	PMR _c	PMR,	PMR,
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
3/15/2011	1000	28.0	58	3	53,4	75.0	271	0:00	2.85	278.38	1,113.54	4	555.61	3.47E-05	0.01	0.01	0.00
3/15/2011	1030	28.0	38	3	66.2	81.4	1,080	0:30	1.82	1,109,43	4,437.71	4	2,214.24	1.38E-04	0.02	0.02	0.00
3/15/2011	1100	28.0	38	3	89,6	21.9	1,541	1:00	1.74	1,582.99	6,331.95	4	3,159.40	1.97E-04	0.02	0.02	0.00
3/15/2011	1130	28.0	58	3	92,6	18.0	1,520	1:30	2.65	1,561.42	6,245.66	4	3,116.34	1.95E-04	0.03	0.04	0.01
3/15/2011	1200	27.5	58	3	108.3	17,3	1,486	2:00	2.58	1,526.49	6,105.96	4	3,046.64	1.90E-04	0.03	0.03	0.01
3/15/2011	1230	27.5	58	3	104.9	35.2	1,158	2:30	2.59	1,189.55	4,758.21	4	2,374.16	1.48E-04	0.02	0,03	0.00
3/15/2011	1300	27.5	38	3	93.7	38.4	924	3:00	1.73	949.18	3,796.71	4	1,894.41	1.18E-04	0.01	0.01	0.00
3/15/2011	1330	27,5	38	3	95,3	41.9	1,137	3:30	1.73	1,167.98	4,671.92	4	2,331.11	1.46E-04	0.02	0.02	0.00
3/15/2011	1400	27.5	38	3	98.2	40,3	1,058	4:00	1.72	1,086,83	4,347.31	4	2,169.14	1.35E-04	0.01	0.02	0.00
3/15/2011	1430	27.5	38	3	92.6	42.2	889	4:30	1.74	913.22	3,652.89	4	1,822.65	1.14E-04	0.01	0.01	0.00
3/15/2011	1500	27.5	38	3	95.5	54.8	852	5:00	1.73	875.21	3,500.86	4	1,746.79	1.09E-04	0.01	0.01	0.00
3/15/2011	1530	27.5	38	3	95,5	50.9	816	5:30	1.73	838.23	3,352.93	4	1,672.98	1.04E-04	0.01	0.01	0.00
3/15/2011	1600	27.5	38	3	105.5	52.3	828	6:00	1.70	850.56	3,402.24	4	1,697.59	1.06E-04	0.01	0.01	0.00
3/15/2011	1630	27.5	38	3	105.5	57.2	923	6;30	1.70	948.15	4,740.75	5	2,365.45	1.48E-04	0.02	0.02	0.00
3/15/2011	1700	27.5	38	3	107.4	58.1	865	7:00	1.69	888.57	5,331.41	6	2,660.17	1.66E-04	0.02	0.02	0,00
3/15/2011	1730	27.5	38	3	109,3	56.4	796	7:30	1.68	817.69	5,723.82	7	2,855.97	1.78E-04	0.02	0.02	0.00
3/15/2011	1800	27.5	38	3	105.8	57.3	813	8:00	1.69	835.15	6,681.22	8	3,333.67	2.08E-04	0.02	0.02	0.00
Average \	Values	27.6	42.7	3	95.3	47.0	997		1.94	1,024.65	4,599.71	4.58824	2,295.08	1.43E-04	0.02	0.02	0.00
$\mathbf{B}_{\mathbf{w}\mathbf{s}}$	0.027	Bwsw	0.016									Total Po	ounds of Carbo	on Recovered as	Emissions	:	0.12

NOTES:

AFVR event performed on March 15, 2011.

Vacuum applied to monitoring well MW-15.

Vacuum applied to monitoring well MW-15.

Vapor concentrations measured using a portable MmiRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg. - inches of fine-treuty

ppm - parts per million

Qut. flow at DSCFM

DSCFM - DS Standard Cubic Feet per Minute

PPM₄ - "dry" concentration

Total Gallons of Gasoline Recovered as Emissions:

PPM, - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas
C_{cm}, mass concentration of VOC emissions as carbon
PMR, collutant mass removal of VOCs as carbon
PMR, pollutant mass removal of VOCs as gasoline
B_{ere}, lo for water per lo fordy air
B_{ere}, vater vapor % by volume
Calculations have been derived from published guidance

Total Pounds of Gasoline Recovered as Emissions:

0.14

0.02

AFVR Gauging Data - March 30, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

			Monitori	ng Well Gaugin	g Data			Air Em	issions
	Vacuum I (inches			Dept t	o Free Product/	Water		Influent	Effluent
Time	MW-6	MW-18	MW-2	MW-6	MW-15	MW-17	MW-18	(ppm)	(ppm)
0800	26.5	26.0	24.96	25.48/27.05	24.25/24.63	24.70/27.19	24.95/25.28	204	-
0830	26.5	26.0	25.60	1	24,43/24.86	24.74/27.32		780	14
0900	26.5	26.0	26.24	1	24.60/25.09	24.77/27.44		1,040	16
0930	26.5	26.0	26.51	1	24.78/25.32	24.85/27.62		1,443	18
1000	26.5	26.0	26.78	1	24.95/25.54	24.93/27.80		1026	28
1030	26.0	26.0	26.92 27.06 27.16 27.25	1	25.01/25.56	24.99/27.90		1221	25
1100	26.0	26.0		1 🗦	25.07/25.58	25.05/27.99	AFVR EVENT	1132	23
1130	26.0	26.0		25.12/25.63	25.10/28.08	/E	1303	20	
1200	26.0	26.0	27.25		25.17/25.67	25.14/28.16	E E	1136	19
1230	26.0	26.0	27.33	AFVR	25.22/25.70	25.18/28.21	X.	1271	21
1300	26.0	26.0	27.41	1 🗦	25.27/25.73	25.22/28.25	A.F.	1051	18
1330	26.0	26.0	27.47	1 `	25.29/25.74	25.24/28.29	`	1113	19
1400	26.0	26.0	27.52		25.31/25.75	25.26/28.33		1061	19
1430	26.0	26.0	27.54		25.33/25.77	25.29/28.38		1009	20
1500	26.0	26.0	27.55	1	25.35/25.79	25.32/28.42		962	25
1530	26.0 26.0 26.0 26.0	27.56		25.36/25.80	25.34/28.44		987	23	
1600		27.56	28.29/28.30	25.36/25.80	25.35/28.45	29.89/29.90	821	17	
	Water Level (Change (feet)	(feet) 3.07 1.1	1.25	1.17	1.26	4.62		
	Initial FP thi	ckness (feet)	NFP	1.57	0.38	2.49	0.33		
	Final FP thic	kness (feet)	NFP	0.01	0.44	3.10	0.01		

NOTES:

AFVR event performed on March 30, 2011.

1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - Not free-phase petroleum product present

TABLE 2A

AFVR Emissions Field Data - March 30, 2011 Former Ryder Truck Greeaville, South Carolina SCDHEC UST Permit #11927, Cost Agreement #40379 BLE Project Number J11-1010-16

								WELL ID	#: MW	-6 and N	/W-18						
			AFV	R FIELI	MEASU	REMENTS						E	MISSION CALC	ULATIONS			
Date	Time		Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM _c	K	C _{em} (mg/dsm3)	C _c (lb/dscf)	PMR _c (lb/hr)	PMR _g (lb/hr)	PMR _g (gal/hr)
3/30/2011	800	27	77	3	56.8	77.0	204	0:00	3,58	220.05	880.20	4	439.19	2.74E-05	0.01	0,01	0,00
3/30/2011	830	27	77	3	76.8	84,6	780	0:30	3.45	841.37	3,365.49	4	1,679.25	1.05E-04	0.02	0.03	0.00
3/30/2011	900	27	116	3	100.0	26.9	1,040	1:00	4,98	1,121.83	4,487.31	4	2,239.00	1.40E-04	0.04	0,05	0.01
3/30/2011	930	27	135	3	126.8	17.5	1,443	1:30	5.53	1,556.54	6,226.15	4	3,106.61	1.94E-04	0.06	0.07	0.01
3/30/2011	1000	27	116	3	133.5	16.4	1,026	2:00	4.70	1,106.73	4,426.91	4	2,208.86	1.38E-04	0.04	0.04	0.01
3/30/2011	1030	27	135	3	136.0	40.2	1,221	2:30	5.44	1,317.07	5,268.28	4	2,628.67	1.64E-04	0.05	0.06	0.01
3/30/2011	1100	27	135	3	133.5	42.0	1,132	3:00	5.47	1,221.07	4,884.27	4	2,437.06	1.52E-04	0.05	0.06	0.01
3/30/2011	1130	27	155	3	139.4	45.3	1,303	3:30	6.21	1,405.52	5,622.09	4	2,805.20	1.75E-04	0.07	0.08	0.01
3/30/2011	1200	27	155	3	139.6	45.2	1,136	4:00	6.21	1,225.38	4,901.53	4	2,445.67	1.53E-04	0.06	0.07	0.01
3/30/2011	1230	27	135	3	134.7	49.2	1,271	4:30	5.45	1,371.00	5,484.02	4	2,736.31	1.71E-04	0.06	0.06	0.01
3/30/2011	1300	27	116	3	135.5	49.9	1,051	5:00	4.68	1,133.69	4,534.78	4	2,262.68	1.41E-04	0.04	0.05	0.01
3/30/2011	1330	27	175	3	136.7	41.9	1,113	5:30	7.05	1,200.57	4,802.29	4	2,396.16	1.50E-04	0.06	0.07	0.01
3/30/2011	1400	27	155	3	138.0	16.6	1,061	6:00	6.23	1,144.48	4,577.92	4	2,284.21	1.43E-04	0.05	0.06	0.01
3/30/2011	1430	27	155	3	140.5	55.2	1,009	6:30	6.20	1,088.39	4,353,56	4	2,172.26	1.36E-04	0.05	0.06	0.01
3/30/2011	1500	27	155	3	141.2	54.0	962	7:00	6.19	1,037.69	4,150.77	4	2,071.07	1.29E-04	0.05	0.06	0.01
3/30/2011	1530	27	155	3	140.7	57.6	987	7:30	6.20	1,064.66	4,258.63	4	2,124.89	1.33E-04	0.05	0.06	0.01
3/30/2011	1600	27	135	3	139.4	60.9	821	8:00	5.41	885.60	3,542.39	4	1,767.52	1.10E-04	0.04	0.04	0.01
Average V	/alues	27	134.2	3	126.4	45.9	1,033		5.47	1,114.21	4,456.86	4	2,223.80	1.39E-04	0.05	0.05	0.01
B _{ws}	0.073	Bwsw	0.044									Total P	ounds of Carbo	n Recovered as	Emissions	:	0.36

Total Pounds of Carbon Recovered as Emissions: 0.36 Total Pounds of Gasoline Recovered as Emissions: 0.42 Total Gallons of Gasoline Recovered as Emissions: 0.07

NOTES:

AFVR event performed on March 30, 2011.

Vacuum applied to monitoring wells MW-6 and MW-18.

1.57, 0.38, 2.49, and 0.35 feet of thece-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event Vapor concentrations measured using a portable MiniRAE* 2000 Photo-Ionization Detector (PID). inches of Hg-inches of

PPM, - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas Commens concentration of VOC emissions as carbon PMR, pollutant mass removal of VOCs as carbon PMR, - pollutant mass removal of VOCs as gasoline Baye. In of water per ho dry air more carbon pMR, - water vapor % by volume Calculations have been derived from published guidance

AFVR Gauging Data - April 14, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

			Monitorin	g Well Gaugii	ng Data			Air En	nissions
	Vacuum I (inches			D	epth to Free Wa	ter		Influent	Effluent
Time	MW-4	MW-17	MW-4	MW-5	MW-6	MW-15	MW-17	(ppm)	(ppm)
0750	26.5	26.0	24.03/24.59	24.00	25.23/26.04	23.73/24.24	24.41/25.84	83	
0820	26.5	26.0	1	24.01	25.27/26.17	23.77/24.29		233	8
0850	27.0	26.0	1 1	24.02	25,30/26,30	23.81/24.34		359	6
0920	27.0	26.0	1 1	24.02	25.37/26.41	23.81/24.34		387	6
0950	27.0	26.0	1 1	24.02	25.43/26.51	23.81/24.34		390	7
1020	27.0	26.0	_	24.03	25.47/26.56	23.81/24.33		435	8
1050	27.0	26.0] [24.03	25.51/26.60	23.81/24.32		497	10
1120	27.0	26.0	EVENT	24.03	25.54/26.62	23.81/24.32		490	11
1150	27.0	26.0] 🚊 [24.03	25.57/26.64	23.81/24.32		554	14
1220	27.0	26.0	24.03 25.59/26.67 23.80/24.32 24.02 25.60/26.69 23.79/24.32	521	10				
1250	27.0	26.0] \$ [24.02	25.60/26.69	23.79/24.32	A.F.	483	8
1320	27.0	26.0	1 ' [24.02	25.62/26.71	23.78/24.31	,	474	9
1350	27.0	26.0] [24.01	25.64/26.73	23.77/24.29		459	7
1420	27.0	26.0]	24.01	25.65/26.74	23.77/24.28		484	9
1450	27.0	26.0		24.00	25.66/26.74	23.77/24.28		471	7
1520	27.0][23.99	25.67/26.74	23.77/24.27		477	8
1550		25.04/25.05	23.98	25.67/26.73	23.76/24.25	28.47	497	10	
	Water Level (Change (feet)	0.46	-0.20	0.69	0.01	2.63		
	Initial FP thi	ckness (feet)	0.56	NFP	0.81	0.51	1.43		
	Final FP thic	kness (feet)	0.01	NFP	1.06	0.46	NFP		

NOTES:

AFVR event performed on April 14, 2011.

0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event

 $Vapor\ concentrations\ measured\ using\ a\ portable\ MiniRAE^{\#}\ 2000\ photo-ionization\ detector\ (PID).$

inches of Hg - inches of mercury

BTOC - below top of casing
ppm - parts per million
Water Level Change (feet) = Final depth to water minus initial depth to water;

positive = drawdown; negative = rise
NFP - No free-phhase petroleum product present

TABLE 3A

AFVR Emissions Field Data - April 14, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929: Cost Agreement #40379 BLE Project Number J11-1010-16

								WELL ID	#: MW-	4 and N	1W-17						
			AFV	R FIELI	MEASU	REMENTS						EN	ISSION CALC	JLATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q _{std}	PPM _d	PPM _c	K	C _{cm}	C _c	PMR _c	PMR _e	PMR _g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)	-			(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
4/14/2011	750	27.5	77	3	68.1	89.9	83	0:00	3.40	92.34	369,35	4	184.29	1.15E-05	0.00	0.00	0.00
4/14/2011	820	27.5	58	3	81.1	94.7	233	0:30	2.50	259.21	1,036,85	4	517.35	3.23E-05	0.00	0.01	0.00
4/14/2011	850	27.5	58	3	101.4	89.6	359	1:00	2.41	399.39	1,597.55	4	797.12	4.98E-05	0.01	0.01	0.00
4/14/2011	920	27.5	. 58	3	109.7	85.6	387	1:30	2.37	430.54	1,722.15	4	859.29	5.36E-05	0.01	0.01	0.00
4/14/2011	950	27.5	77	3	110.3	83.7	390	2:00	3,15	433.88	1,735.50	4	865.95	5.41E-05	0.01	0.01	0,00
4/14/2011	1020	27.5	77	3	116.4	88.2	435	2:30	3.11	483.94	1,935.75	4	965.87	6.03E-05	0.01	0.01	0,00
4/14/2011	1050	27.5	77	3	120.2	79.7	497	3:00	3,09	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
4/14/2011	1120	27.5	77	3	121.4	73.5	490	3:30	3.09	545.13	2,180.50	4	1,087.99	6.79E-05	0.01	0.01	0.00
4/14/2011	1150	27.5	58	3	123.4	75.4	554	4:00	2.32	616.33	2,465.30	4	1,230.09	7.68E-05	0.01	0.01	0.00
4/14/2011	1220	27.5	.77	3	126,8	71.1	521	4:30	3.06	579.61	2,318.45	4	1,156.82	7.22E-05	0.01	0.02	0.00
4/14/2011	1250	27.5	77	3	127.9	63.0	483	5:00	3.05	537.34	2,149.35	4	1,072.44	6.70E-05	0.01	0.01	0.00
4/14/2011	1320	27.5	77	3	131.5	94.3	474	5:30	3.03	527.33	2,109.30	4	1,052.46	6.57E-05	0.01	0.01	0.00
4/14/2011	1350	27.5	58	3	131.5	67.1	459	6:00	2.28	510.64	2,042.55	4	1,019.15	6.36E-05	0.01	0.01	0.00
4/14/2011	1420	27.5	58	3	132.4	70.9	484	6:30	2.28	538.45	2,153.80	4	1,074.66	6.71E-05	0.01	0.01	0.00
4/14/2011	1450	27.5	77	3	133.3	70.8	471	7:00	3.02	523.99	2,095.95	4	1,045.80	6.53E-05	0.01	0.01	0.00
4/14/2011	1520	27.5	77	3	136.0	67.2	477	7:30	3.01	530.66	2,122.65	4	1,059.12	6.61E-05	0.01	0.01	0.00
4/14/2011	1550	27.5	77	3	136.4	67.0	497	8:00	3.01	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
Average V	alues	27.5	70.3	3	118.1	78.3	429		2.83	477.33	1,909.31	4	952.67	5.95E-05	0.01	0.01	0.00
$\mathbf{B}_{\mathbf{ws}}$	0.101	Bwsw	0.061								_	Total P	ounds of Carb	on Recovered a	as Emissio	15:	0.08

NOTES:

AFVR event performed on April 14, 2011.

Vacuum applied to Monitoring wells MW-4 and MW-17

O.56, 0.81, 0.51, 0.31, 0.31, 0.31 feet of Bree-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event Vapor concentrations measured using a portable MimRAE® 2000 Photo-Ionization Detector (PID). inches of the robes of mercury ppm - parts per million

Qu4. flow at DSCFM

DSCFM - DS Standard Cubic Feet per Minute

PPM4, - "dry" concentration

Total Pounds of Gasoline Recovered as Emissions:

0.09

Total Gallons of Gasoline Recovered as Emissions:

0.01

PPM₄ - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas
C_{onc.} mass concentration of VOC emissions as carbon
PMR₄, pollutant mass removal of VOCs as carbon
PMR₄, pollutant mass removal of VOCs as gasoline
B_{max}, lib of water per lb of dry air
B_{max}, atter vagor. 8by volume
Calculations have been derived from published guidance

AFVR Gauging Data - April 29, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

	Monitori	ng Well Gaugii	ng Data		Air En	nissions
	Vacuum Readings (inches of Hg)	Depth	to Free Produc (feet BTOC)	t/Water	Influent (ppm)	Effluent (ppm)
Time	MW-3R	MW-3R	MW-13	MW-18	(ррш)	(ррш)
0745	26.0	23.43	22.86	24.20/24.31	312	
0815	26.0		22.98	24.19/24.32	1,166	
0845	26.0		23.10	24.18/24.33	1,302	24
0915	26.0		23.19	24.2324.37	1,295	27
0945	26.0		23.27	24.27/24.41	1205	24
1015	26.0		23.32	24.31/24.45	1110	19
1045	26.0 26.0	¥	23.37	24.35/24.48	1070	13
1115		<u> </u>	23.42	24.38/24.51	935	10
1145	26.0	Ē	23.46	24.40/24.54	940	10
1215	26.0	AFVR EVENT	23.49	24.42/24.55	369	6
1245	26.0	₩.	23.51	24.43/24.56	670	9
1315	26.0	_	23.52	24.44/24.57	851	10
1345	26.0		23.53	24.44/24.57	777	8
1415	26.0		23.55	24.45/24.59	726	7
1445	26.0		23.57	24.46/24.60	640	7
1515	26.0		23.58	24.47/24.61	611	6
1530	26.0	25.26	23.58	24.47/24.61	585	6
·	Water Level Change (feet)	1.83	0.72	0.30		
	Initial FP thickness (feet)	NFP	NFP	0.11		
	Final FP thickness (feet)	NFP	NFP	0.14		

NOTES:
AFVR event performed on April 29, 2011.
0.11 feet of free-phase petroleum was detected in MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - No free-phase petroleum product present.

TABLE 4A

AFVR Emissions Field Data - April 29, 2011 Former Ryder Truck Greeaville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

					1			WEI	LL ID #:	MW-31	R						
			AFV	R FIELD	MEASU	REMENTS						E	MISSION CALC	ULATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q _{std}	PPM _d	PPM _c	K	C _{cm}	C,	PMR _c	PMR,	PMR,
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
4/29/2011	745	27.5	97	3	61.5	80.3	312	0:00	4.31	349.03	1,396.13	4	696.61	4.35E-05	0.01	0.01	0,00
4/29/2011	815	27.5	77	3	91.4	88.2	1,166	0:30	3.24	1,304.39	5,217.57	4	2,603.37	1.63E-04	0.03	0.04	0.01
4/29/2011	845	27.5	97	3	113.3	69.9	1,302	1:00	3.92	1,456.54	5,826.14	4	2,907.02	1.81E-04	0.04	0.05	0.01
4/29/2011	915	27.5	77	3	116.7	58.1	1,295	1:30	3.09	1,448.70	5,794.82	4	2,891.39	1.81E-04	0.03	0.04	0.01
4/29/2011	945	27.5	118	3	124.3	91.6	1,205	2:00	4.68	1,348.02	5,392.09	4	2,690.44	1.68E-04	0.05	0.05	0.01
4/29/2011	1015	27.5	118	3	127.7	93.2	1,110	2:30	4.65	1,241.75	4,966.99	4	2,478.33	1.55E-04	0.04	0.05	0.01
4/29/2011	1045	27.5	118	3	129.5	67.8	1,070	3:00	4.64	1,197.00	4,788.00	4	2,389.02	1.49E-04	0.04	0.05	0.01
4/29/2011	1115	27,5	118	3	131.0	61.8	935	3:30	4.63	1,045.98	4,183.90	4	2,087.61	1.30E-04	0.04	0.04	0.01
4/29/2011	1145	27.5	135	3	138.9	62.1	940	4:00	5.22	1,051.57	4,206.28	4	2,098.77	1.31E-04	0.04	0.05	0.01
4/29/2011	1215	27.5	118	3	116.2	75.1	369	4:30	4.74	412.80	1,651.19	4	823.88	5.14E-05	0.01	0.02	0.00
4/29/2011	1245	27.5	97	3	123.6	73.1	670	5:00	3,85	749.52	2,998.09	4	1,495.93	9.34E-05	0.02	0.02	0.00
4/29/2011	1315	27.5	118	3	132.0	67.3	851	5:30	4.62	952.01	3,808.02	4	1,900.06	1.19E-04	0.03	0.04	0.01
4/29/2011	1345	27.5	135	3	134.6	64.1	777	6:00	5.26	869.22	3,476.89	4	1,734.83	1.08E-04	0.03	0.04	0.01
4/29/2011	1415	27.5	135	3	140.1	57.8	726	6:30	5,21	812.17	3,248.68	4	1,620.96	1.01E-04	0.03	0.04	0.01
4/29/2011	1445	27.5	155	3	141.2	56.4	640	7:00	5.97	715.96	2,863.85	4	1,428.95	8.92E-05	0.03	0.04	0.01
4/29/2011	1515	27.5	135	3	143.2	55.4	611	7:30	5.19	683,52	2,734.08	4	1,364.20	8.52E-05	0.03	0.03	0.00
4/29/2011	1530	27.5	135	3	144.1	55.1	585	7:45	5.18	654.43	2,617.74	4	1,306.15	8.15E-05	0.03	0.03	0.00
Average	Values	27.5	116.6	3	124.1	69.3	857		4.61	958.39	3,833.56	4	1,912.80	1.19E-04	0.03	0.04	0.01
$\mathbf{B}_{\mathbf{ws}}$	0.106	B _{wsw}	0.064									Total P	ounds of Carbo	on Recovered as	Emissions	:	0.26

Total Pounds of Carbon Recovered as Emissions: 0.26 Total Pounds of Gasoline Recovered as Emissions: 0.31 Total Gallons of Gasoline Recovered as Emissions: 0.05

NOTES:

AFVR event performed on April 29, 2011.

Vacuum applied to monitoring well MW-3R.

0.11 feet of free-phase perforleum was detected in MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MmiRAE* 2000 Photo-Ionization Detector (PID) inches of IIg. -inches of

 $\label{eq:power_$

AFVR Gauging Data - May 16, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

	I	Monitoring Wel	l Gauging Data			Air En	issions
	Vacuum Readings (inches of Hg)			Product/ Water BTOC)		Influent	Effluent
Time	MW-6	MW-6	MW-15	MW-17	MW-18	(ppm)	(ppm)
0815	26	24.38/25.22	22.90/23.31	23.64/24.18	23.80/23.94	840	-
0845	25		22.92/23.35	23.69/24.22	23.88/24.02	1,681	-
0915	25	Ī	22.93/23.38	23.73/24.26	23.96/24.10	1,995	28
0945	25	1	22.95/23.40	23.77/24.30	24.00/24.13	1,930	25
1015	25		22.96/23.42	23.81/24.34	24.03/24.16	1,765	26
1045	25		22.97/23.43	23.84/24.37	24.05/24.18	1,703	31
1115	25	į	22.97/23.44	23.87/24.40	24.06/24.20	1,690	27
1145	25	AFVR EVENT	22.98/23.45	23.90/24.43	24.07/24.21	1,426	21
1215	25	鱼	22.98/23.45	23.92/24.45	24.08/24.22	1,414	20
1245	25) %	22.98/23.45	23.94/24.46	24.09/24.22	1,358	20
1315	25	Ą.	22.98/23.45	23.95/24.47	24.09/24.22	1,296	25
1345	25] `	22.98/23.46	23.96/24.49	24.10/24.23	1,150	18
1415	25		22.98/23.46	23.97/24.50	24.10/24.23	1,150	18
1445	25]	22.98/23.45	23.98/24.52	24.11/24.24	1,120	17
1515	25		22.98/23.44	23.99/24.53	24.11/24.25	1,088	15
1545	25		22.98/23.44	24.00/24.53	24.11/24.25	1,061	13
1615	25	26.77/26.78	22.97/23.44	24.00/24.53	24.10/24.25	944	13
	Water Level Change (feet)	1.56	0.13	0.35	0.31		
	Initial FP thickness (feet)	0.84	0.41	0.54	0.14		
	Final FP thickness (feet)	0.01	0.47	0.53	0.15		

NOTES: AFVR event performed on May 16, 2011.

0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE[®] 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - No free-phase petroleum product present.

TABLE 5A

AFVR Emissions Field Data - May 16, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11927, Cost Agreement #40379 BLE Project Number J11-1010-16

								WE	LL ID#	: MW-6	i						
			AFV	R FIELI	MEASU	REMENTS						Е	MISSION CALC	ULATIONS			
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity (%)	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM _c	K	C _{cm} (mg/dsm3)	C _c (lb/dscf)	PMR _c (lb/hr)	PMR _g (lb/hr)	PMR _g (gal/hr)
5/16/2011	815	27	18	3	66,0	88.1	840	0:00	0.81	914.27	3,657.07	4	1,824.74	1.14E-04	0.01	0.01	0.00
5/16/2011	845	27	18	3	80.6	94.3	1,681	0:30	0.79	1,829.62	7,318.49	4	3,651.64	2.28E-04	0.01	0.01	0.00
5/16/2011	915	27	18	3	113.5	70.8	1,995	1:00	0.75	2,171.38	8,685.54	4	4,333.75	2.71E-04	0.01	0.01	0.00
5/16/2011	945	27	18	3	119.8	72.9	1,930	1:30	0.74	2,100.64	8,402.55	4	4,192.55	2.62E-04	0.01	0.01	0.00
5/16/2011	1015	27	18	3	123.4	69.5	1,765	2:00	0.73	1,921.05	7,684.20	4	3,834.12	2.39E-04	0.01	0.01	0.00
5/16/2011	1045	27	36	3	120.3	69.7	1,703	2:30	1.48	1,853.57	7,414.27	4	3,699.43	2.31E-04	0.02	0.02	0.00
5/16/2011	1115	27	18	3	124.5	72.8	1,690	3:00	0.73	1,839.42	7,357.67	4	3,671.19	2.29E-04	0.01	0.01	0.00
5/16/2011	1145	27	58	3	126.1	62.1	1,426	3:30	2.36	1,552.08	6,208.31	4	3,097.71	1.93E-04	0.03	0.03	0.01
5/16/2011	1215	27	38	3	126.6	63.9	1,414	4:00	1.54	1,539.02	6,156.06	4	3,071.64	1.92E-04	0.02	0.02	0.00
5/16/2011	1245	27	58	3	127.7	60.1	1,358	4:30	2.35	1,478.06	5,912.26	4	2,949.99	1.84E-04	0.03	0.03	0.00
5/16/2011	1315	27	38	3	120.7	63.3	1,296	5:00	1.56	1,410.58	5,642.33	4	2,815.31	1.76E-04	0.02	0.02	0.00
5/16/2011	1345	27	58	3	120.3	62.8	1,150	5:30	2.38	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.02	0.03	0.00
5/16/2011	1415	27	38	3	118.7	64.3	1,150	6:00	1.56	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.01	0.02	0.00
5/16/2011	1445	27	58	3	115.8	70.2	1,120	6:30	2.40	1,219.02	4,876.09	4	2,432.98	1.52E-04	0.02	0.03	0.00
5/16/2011	1515	27	38	3	118.2	65.3	1,088	7:00	1.57	1,184.19	4,736.77	4	2,363.47	1.48E-04	0.01	0.02	0,00
5/16/2011	1545	27	38	3	120,3	63.8	1,061	7:30	1.56	1,154.81	4,619.22	4	2,304.81	1.44E-04	0.01	0.02	0.00
5/16/2011	1615	27	38	3	123.2	64.3	944	8:00	1.55	1,027.46	4,109.85	4	2,050.66	1.28E-04	0.01	0.01	0.00
Average \	Values	27	36	3	115,6	69.3	1,389		1.46	1,511.68	6,046.71	4	3,017.07	1.88E-04	0.02	0.02	0.00
$\mathbf{B}_{\mathbf{ws}}$	0.081	B _{wsw}	0.049					_				Total P	ounds of Carbo	on Kecovered as	Emissions	:	0.13

Total Pounds of Carbon Recovered as Emissions: 0.13 Total Pounds of Gasoline Recovered as Emissions: 0.15 Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:

AFVR event performed on May 16, 2011.

Vacuum applied to observation wells MW-6.
0.34, 0.41, 0.54, and 0.14 feet of feesphase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event Vapor concentrations measured using a portable MinRAE* 2000 Photo-Ionization Detector (PID) inches of Hg-inches of Hg

PPM_e - volumetric concentration of VOC emissions as carbon, dry basis, at STP K - number of carbons in calibration gas
C₁₀₀, mass concentration of VOC emissions as carbon
PMR_e, pollutant mass remval of VOCs as carbon
PMR_e, pollutant mass remval of VOCs as gasoline
B₁₉₀, 10 of water per lb of dry air
B₂₉₀, vater vaper. 8by volume
Calculations have been derived from published guidance

Post AFVR Gauging Data - June 13, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

Well ID	MW-2	MW-3R	MW-4	MW-6	MW-15	MW-17	MW-18
Depth to Free-Product / Groundwater	24.08	23.61	23.35/23.50	24.60/25.37	23.20/23.71	23.85/24.37	24.10/24.21
Free-Product Thickness (ft)	NFP	NFP	0.15	0.77	0.51	0.52	0.11

NOTES:

Measurements are in feet below top of casing

Prepared By: IAI Checked By: MLT



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602

JUL 2 0 2011



Re:

QAPP Contractor Addendum Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929
Release #2 reported February 25, 1997
Aggressive Fluid Vapor Recovery Report Received July 15, 2011
Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report.

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The groundwater sampling event should be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations. The groundwater samples should be analyzed for BTEX + Naphth + MtBE, and EDB. A copy of SCDHEC QAPP for the UST Management Division is available at http://www.dhec.sc.gov/environment/iwm/pubs/DHEC%20UST%20QAPP Rev-1 Feb2011_3.pdf.

Please have your contractor complete and submit the QAPP Contractor Addendum and Cost Agreement within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial preapproval from the Department must be issued before work begins.

On all correspondence concerning this site, please reference **UST Permit # 11929.** If there are any questions concerning this project, please contact me at (803) 896-6323 or by email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615

Technical File

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.



MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602

OCT 14 2011

Re:

Groundwater Sampling Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit # 11929; CA# 42024 Release #2 reported February 25, 1997

Site Specific QAPP Contractor Addendum and Associated Cost Agreement received October 3, 2011

Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced addendum submitted on your behalf by Bunnell-Lammons Engineering, Inc. The next appropriate scope of work at the site is comprehensive groundwater sampling event. All work should be conducted in accordance with the UST Quality Assurance Division Plan and must be conducted in compliance with all applicable regulations. A copy of SCDHEC Quality Assurance Program Plan (QAPP) for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/html/ust.htm.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement # 42024 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Department grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #11929. If you have any questions regarding this correspondence, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement

Signed Site Specific QAPP Contractor Addendum

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (with enc.)

Technical File (with enc.)

Former Ryder Terminal – QAPP Addendum UST Permit #11929 Revision No: 0 Date: September 30, 2011

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan Addendum to the SC DHEC UST Programmatic QAPP For Forrer Ryder Terminal – UST Permit #11929 10 Woods Lake Road, Greenville, South Carolina Prepared by: Trevor J. Benton, P.G – Bunnell-Lammons Engineering, Inc.

Bunnell-Lammons Engineering, Inc. - SCDHEC Certified Contractor No. UCC-010

Date: September 30, 2011

Approvals	0 - 1		
Stephanie Briney SC DHEC Project Manager	Stephanie Bring Signature	Date_	<u>19/11/1</u> 1
Trever Z. Slack, P.G. Contractor QA Manager	Signature Signature	_ Date _	9/30/11
Thomas L. Lammons, P.G. Site Rehabilitation Contractor	Signature	_ Date _	9/30/11
Michael Woodrum	Thuhard II Woodners	_ Date _	9/30/11

Approved Cost Agreement 42024

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN				
	C TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB				· · · · · · · · · · · · · · · · · · ·
	B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION				
	A GROUND WATER	1.0000	55.00	55.00
	D GROUNDWATER NO-PURGE	19.0000	35.00	665.00
	H FIELD BLANK	1.0000	5.00	5.00
11 ANALYSES				
GW GROUNDWATER	A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22.0000	100.00	2,200.00
	F EDB	22.0000	55.00	1,210.00
17 DISPOSAL				
	A WASTEWATER	25.0000	0.80	20.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	5,260.00	789.00

Total Amount

6,049.00



GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF GROUNDWATER SAMPLING EVENT – NOVEMBER 2011

FORMER RYDER TRUCK TERMINAL 10 WOODS LAKE DRIVE GREENVILLE, SOUTH CAROLINA UST PERMIT # 11929; COST AGREEMENT # 42024

Prepared For:

Ms. Ingrid Auten c/o Ms. Annie Mumbauer BB&T Wealth Management Post Office Box 408 Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-010

January 16, 2012

BLE Project Number J11-1010-17



January 16, 2012

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull Street Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney

Hydrogeologist

Subject: Report of Groundwater Sampling Event – November 2011

Former Ryder Truck Terminal Greenville, Greenville County UST Permit #11929; CA #42024 BLE Project No. J11-1010-17

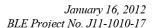
Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of comprehensive groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated October 14, 2011. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980s to the late 1990s, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II





Report of Groundwater Sampling Event – November 2011 Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #42024

Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2011 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. Since the site has not been sampled since 2009, SCDHEC has required a comprehensive sampling event be conducted to assess current geochemical trends on the site.

On November 2, 2011, BLE personnel mobilized to the site to perform a comprehensive groundwater sampling event at the subject site. The results of our activities are provided herein.

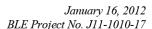
GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are on-site, and three wells (MW-7, MW-8, and MW-11) are off-site.

Groundwater levels in the monitoring wells were measured on November 2, 2011 (Table 1). A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown on Figure 2.

Groundwater samples were collected from thirteen (MW-1, MW-2, MW-2D, MW-5, MW-7 through MW-14, and MW-16) of the nineteen monitoring wells on November 2, 2011. Monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 were not sampled due to the presence of free-phase product in the wells. The remaining wells were sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tertiary-butyl-ether (MTBE), and 8-oxygenates by EPA Method 8260B and 1,2-dibromoethane (EDB) by EPA Method 8011.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well





Report of Groundwater Sampling Event – November 2011 Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #42024

development). Therefore, only monitoring well MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix A. The samples were shipped via courier to Shealy Environmental Services, Inc. in West Columbia, South Carolina for analysis (SC Certification #32010). The monitoring well sampling logs are in Appendix A.

Purge water generated during the groundwater sampling event was contained in a 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix C.

LABORATORY RESULTS

Laboratory analyses detected various chemicals of concern (CoC) in monitoring wells MW-2, MW-2D, MW-5, MW-7, MW-12, MW-13, and MW-14. Benzene (MW-2, MW-13, and MW-14), naphthalene (MW-2, MW-13, and MW-14), and EDB (MW-13) were the only dissolved CoCs detected at concentrations exceeding Risk-Based Screening Levels (RBSLs). Additionally, various 8-oxygenate concentrations were detected above the laboratory method detection limit (MDL) in monitoring wells MW-12, MW-13, and MW-14; however, these detections were below established RBSLs. Petroleum free-product was measured in MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 at a thickness of 0.35, 1.32, 2.90, 0.87, 1.65, and 0.56 feet, respectively. CoC concentrations for each well are shown on Figure 3. Historical laboratory data is summarized on Table 2. Laboratory data sheets are provided in Appendix B.

CONCLUSIONS AND RECOMMENDATIONS

During this current assessment, laboratory analyses detected various CoC concentrations in monitoring wells MW-2, MW-13, and MW-14 exceeding established RBSLs. Additionally, petroleum free-product was detected in six on-site monitoring wells (MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18).

Since free-phase petroleum product is still present at moderate thicknesses in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18, we recommend that a series of four additional AFVR events be conducted at the site. After a minimum of 30 days from the last AFVR



Report of Groundwater Sampling Event - November 2011 Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #42024

January 16, 2012 BLE Project No. J11-1010-17

event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten, c/o Ms. Annie Mumbauer of BB&T Wealth Management. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey of the SCDHEC Bureau of Land and Waste Management, Financial Section, for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

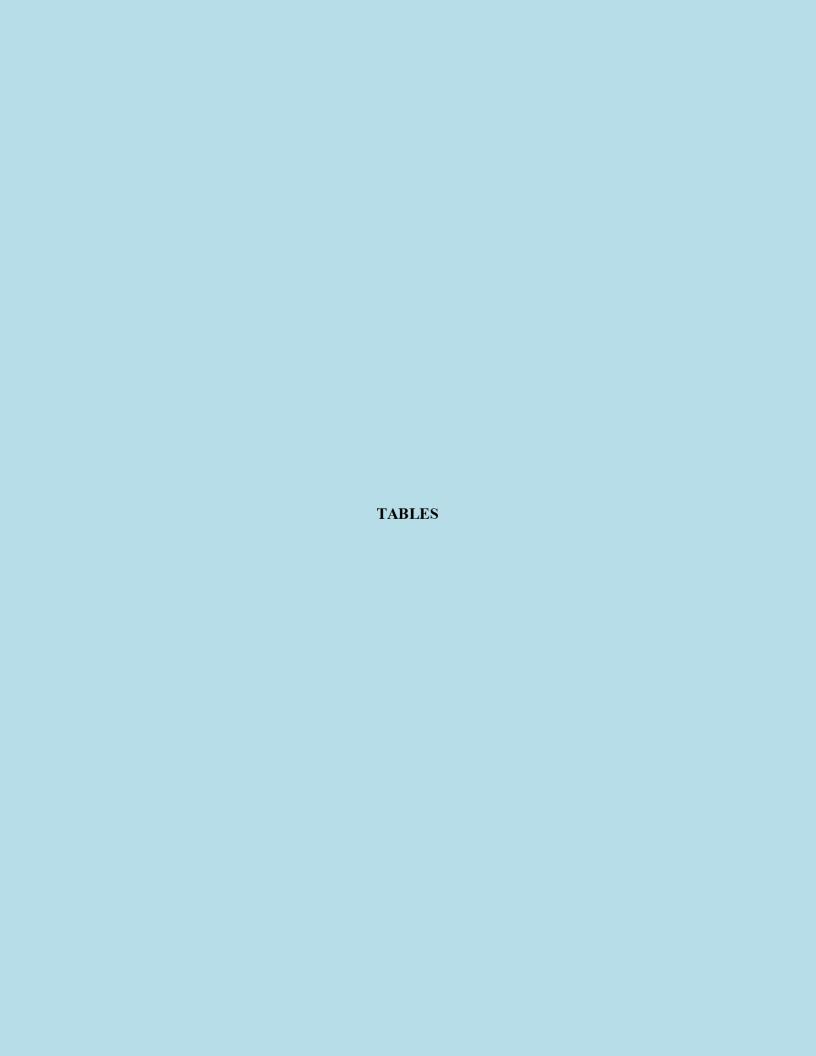
Sincerely,

BUNNELL-LAMMONS ENGINEER

Trevor J. Benton, P.G. Project Hydrogeologist

Registered, South Carolina #23

Thomas L. Lammons, P.G.,



Monitoring Well and Groundwater Surface Elevation Data Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #42024 BLE Project No. J11-1010-17

Boring ID#	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	Free Product Thickness	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation				
MW-1	100.70	98.48	29.40	NA	27.19	71.30	31.0	21.0 - 31.0	77.5 - 67.5				
MW-2	100.10	100.54	26.71	NA	27.15	73.39	30.0	20.0 - 30.0	80.5 - 70.5				
MW-2D	99.29	99.76	28.72	NA	29.20	70.57	54.5	49.5 - 54.5	50.3 - 45.3				
MW-3	Well abandoned December 5, 2005												
MW-3R*	99.00	99.57	26.41	0.35	26.98	72.59	32.4	22.2 - 32.2	77.4 - 67.4				
MW-4*	102.67	102.91	26.28	1.32	26.52	76.39	29.5	19.5 - 29.5	83.4 - 73.4				
MW-5	101.48	101.71	26.05	NA	26.29	75.43	29.0	19.0 - 29.0	82.7 - 72.7				
MW-6*	101.74	102.12	27.49	2.90	27.87	74.25	29.5	19.5 - 29.5	82.6 - 72.6				
MW-7	92.67	92.97	28.00	NA	28.30	64.67	32.8	22.8 - 32.8	70.2 - 60.2				
MW-8	88.76	88.87	24.65	NA	24.76	64.11	29.8	19.8 - 29.8	69.1 - 59.1				
MW-9	102.26	102.65	26.65	NA	27.04	75.61	30.7	20.4 - 30.4	82.3 - 72.3				
MW-10	104.67	104.67	26.26	NA	26.26	78.41	30.1	19.8 - 29.8	84.9 - 74.9				
MW-11	100.66	100.92	25.80	NA	26.06	74.86	31.0	20.7 - 30.7	80.2 - 70.2				
MW-12	101.38	101.68	27.56	NA	27.86	73.82	30.9	20.7 - 30.7	81.0 - 71.0				
MW-13	98.62	98.95	25.69	NA	26.02	72.93	33.2	23.0 - 33.0	76.0 - 66.0				
MW-14	99.30	99.83	25.67	NA	26.20	73.63	32.0	21.8 - 31.8	78.0 - 68.0				
MW-15*	100.39	100.58	25.78	0.87	25.97	74.61	33.5	23.3 - 33.3	77.3 - 67.3				
MW-16	102.74	103.03	25.86	NA	26.15	76.88	34.4	24.2 - 34.2	78.8 - 68.8				
MW-17*	102.09	102.49	26.95	1.65	27.35	75.14	35.0	24.8 - 34.8	77.7 - 67.7				
MW-18*	100.39	100.74	26.87	0.56	27.22	73.52	35.6	25.4 - 35.4	75.3 - 65.3				

NOTES:

Groundwater levels were measured on November 2, 2011.

Measurements are in feet; elevations are relative to an arbitrary site datum.

* = Groundwater depth data for MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 has been corrected for the

presence of free-product thickness using a density of 0.70 g/cc. btoc = below top of casing

bgs = below ground surface FP = Free-Product

NA = Not Applicable.

Prepared By: IAI Checked By: RAD

Historical Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Green'lle, South Carolina UST Permit #11929; Cost Agreement #42024

۰	Letimi	W11929;	Cost	Agreen	win	144707
	BLE	Project	No. J	11-1010	-17	

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	1400.00	Xylenes (µg/L)	10000	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (ng/L)
SC DHE		NA.	5	1,000	700	10,000	-	40	25	0.05	- 5
	12/13/96 02/10/98	NA NA	20.6 ND	1.74 ND	2.61	6.4 ND	31.35	ND	ND ND	NT ND	NT
	03/29/99	NA NA	2.6	ND	ND ND	ND ND	ND 2.6	ND ND	ND ND	NT	NT NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-1	02/03/04	NA.	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05 02/23/06	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT
	05/29/07	NA.	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	0.028	NT
	11/23/09	NA NA	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<10.0 <5.0	ND ND	<5.0 <5.0	<5.0 <5.0	<0.020	<5.0 <5.0
	12/13/96	NA.	249	22.5	43.5	363	678	11.1	900	NT	NT NT
	02/10/98	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS.
	03/29/99	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03 02/02/04	0.01	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
MW-2	01/20/05	0.23	NS	NS	NS.	NS	NS	NS	NS NS	NS	NS
	02/23/06	NA	120	ND	6.8	170	296.8	ND	240	0.33	NT
	05/29/07	0.26	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.29	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	02/23/09	0.02 NA	25.6	<5.0	<5.0	41.15	66.7	<5.0	53.3	0.061	<5.0
	11/02/11	NA NA	35.0	<5.0	<5.0	16.0	51.0	0.59J	110.0	< 0.019	<5.0
	02/10/98	NA.	2.6	ND	ND	3,2	5.76	ND	12.5	ND	NT
	03/29/99	NA.	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01 01/28/03	NA NA	ND 1.4	ND ND	ND ND	ND ND	ND 1.4	ND 1,2	ND ND	NT NT	NT NT
	02/03/04	NA NA	ND	ND ND	ND ND	ND ND	ND	3.7	ND ND	NT	NI
MW-2D	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
mW-2D	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA NA	ND 1.1	ND ND	ND ND	ND ND	ND 1.1	ND ND	ND ND	ND ND	ND NT
	11/23/09	NA NA	1.2J	<5.0	<5.0	<10.0	1.2J	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	2.93	<5.0	<5.0	<5.0	2.9J	0.68J	3.23	< 0.019	<5.0
	02/10/98	NA	62.5	6.4	19.3	193	281.2	ND	106	ND	NT
	03/29/99	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	07/05/01 01/28/03	0.04	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	02/02/04	NA.	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06					onitoring Well A					
MW-14 (DUP)	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND		1.00
	02/24/06 05/29/07	NA NA	40.0 48.0	ND ND	ND ND	81.0 109.0	121	ND ND	120 140	0.90	NT NT
	09/09/08	e to 0.87 feet of	23.2	ND	ND	17.7	40.9	ND	63.2	0.44	ND
MW-3R	02/23/09	0.6	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/10/98	0.35 NA	NS 2.2	NS ND	NS 1.73	NS 150	NS 153.93	NS ND	NS 186	NS ND	NS NT
	03/29/99	NA NA	ND	ND	ND	10.6	10.6	ND	26.2	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND	49.6	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-4	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-s	01/20/05 05/29/07	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	NT NT
	09/09/08	0.96	NS	NS			ND		5417	NT	
	02/23/09	1 1 1 1 1 1	1 1 1 2 1 2		NS	NS.	NS	NS	NS	NT NS	NS
	11/23/09			17.00	NS	NS Dry	NS	NS	NS	NT NS	NS
	11/02/11	0.47	NS	NS	NS	Dry N5	NS	NS	NS	NS NS	N5
		1.32	NS	NS	NS NS	Dry NS NS	NS NS	NS NS	NS NS	NS NS NS	NS NS
	02/10/98	1.32 NA	NS 16.5	NS ND	NS NS ND	Dry NS NS 6.83	NS	NS NS ND	NS NS 33.3	NS NS NS	NS NS NT
		1.32	NS	NS	NS NS	Dry NS NS	NS NS	NS NS	NS NS	NS NS NS	NS NS
	02/10/98 03/29/99 07/05/01 01/28/03	NA NA	NS 16.5 ND	NS ND ND	NS NS ND 1.13	Dry NS NS 6.83 6.26	NS NS 23.33 7.39	NS NS ND ND	NS NS 33.3 50.2	NS NS NS ND	NS NS NT NT
	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04	NA NA NA NA NA NA	NS 16,5 ND ND 25,2 23,1	NS ND ND ND 11.5 4.0	NS NS ND 1.13 ND 5.10	Dry NS NS 6.83 6.26 ND 32.4 8.7	NS NS 23.33 7.39 ND 74.2 37.8	NS NS ND ND ND ND ND ND	NS NS 33.3 50.2 ND 5.0 ND	NS NS NS ND NT NT NT	NS NS NT NT NT NT NT NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05	NA NA NA NA NA NA NA	NS 16.5 ND ND 25.2 23.1 11.0	NS ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 2.0 ND	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8	NS NS ND ND ND ND ND ND ND ND ND	NS NS 33.3 50.2 ND 5.0 ND	NS NS NS ND NT NT NT NT NT	NS NS NT NT NT NT NT NT NT NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06	NA NA NA NA NA NA NA NA	NS 16.5 ND ND S5.2 23.1 11.0 ND	NS ND ND ND 11.5 4.0 ND ND ND	NS NS ND 1.13 ND 5.10 2.0 ND	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND ND	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND	NS NS ND	NS NS NS 33.3 50.2 ND S.0 ND ND ND ND ND	NS NS NS ND NT NT NT NT NT ND ND	NS NS NT NT NT NT NT NT NT NT NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05	NA NA NA NA NA NA NA	NS 16.5 ND ND 25.2 23.1 11.0	NS ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 2.0 ND	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8	NS NS ND ND ND ND ND ND ND ND ND	NS NS 33.3 50.2 ND 5.0 ND	NS NS NS ND NT NT NT NT NT	NS NS NT NT NT NT NT NT NT NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07	NA N	NS 16.5 ND ND ND 25.2 23.1 11.0 ND 1.0	NS ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 2.0 ND	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND ND ND	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND	NS NS ND	NS N	NS NS NS ND NT NT NT NT NT ND ND ND ND	NS NS NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09	1.32 NA	NS 16.5 ND ND 25.2 23.1 11.0 ND ND ND ND ND ND 1.0 <5.0	NS ND ND ND 11.5 4.0 ND	NS N	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND 17.5 1.81	NS NS NS ND	NS N	NS NS NS ND NT NT NT NT ND ND ND ND ND <0.019	NS NS NS NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/02/11	1.32 NA	NS 16.5 ND ND 25.2 23.1 11.0 ND ND ND ND ND 0.30 0.32J	NS ND ND ND ND 11.5 4.0 ND ND ND ND ND ND ND ND 2.31	NS NS ND 1.13 ND 5.10 2.0 ND ND ND ND ND L2.8 1.83 2.44	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND 3.61 410.0 3.61	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND 11.5 1.8J 8.6J	NS NS NS ND	NS N	NS NS NS NS ND NT NT NT NT NT ND ND ND ND <0.019	NS NS NS NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/23/09 11/02/11 02/10/98	1.32 NA NA NA NA NA NA NA NA NA N	NS 16.5 ND ND 25.2 23.1 11.6 ND ND ND ND 1.0 (5.0 0.32J	NS ND ND ND ND 11.5 4.0 ND ND ND ND ND ND 12.3 1.670	NS NS ND 1.13 ND 5.10 2.0 ND ND ND ND ND 1.28 1.83 2.41	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND AD AD	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND 17.5 1.81 8.61 2,731	NS NS NS NS ND	NS NS NS 33.3 50.2 ND	NS NS NS NS ND NT NT NT ND ND ND ND ND ND	NS N
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/02/11	1.32 NA	NS 16.5 ND ND 25.2 23.1 11.0 ND ND ND ND ND 0.30 0.32J	NS ND ND ND ND 11.5 4.0 ND ND ND ND ND ND ND ND 2.31	NS NS ND 1.13 ND 5.10 2.0 ND ND ND ND ND L2.8 1.83 2.44	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND 3.61 410.0 3.61	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND 11.5 1.8J 8.6J	NS NS NS ND	NS N	NS NS NS NS ND NT NT NT NT NT ND ND ND ND <0.019	NS NS NS NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 02/23/06 02/23/09 11/23/09 11/23/09 11/23/09 03/29/99	1.32 NA	NS 16.5 ND ND 15.2 23.1 11.0 ND	NS ND ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 2.0 ND ND ND ND ND ND 1.8J 2.8 1.8J 2.4J NS	Dry NS NS SS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND	NS NS NS NS ND	NS NS 33.3 50.2 ND 5.0 ND	NS NS NS NS ND NT NT NT ND ND ND NO ND ND ND ND ND ND	NS NS NS NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/02/11 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04	1.32 NA	NS 16.5 ND ND ND ND 11.0 ND	NS ND	NS NS NS ND L113 NS ND S100 ND ND ND ND ND ND ND ND ND NS NS NS NS NS NS	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8 ND NS 8.61 2.731 NS NS NS NS NS NS	NS	NS NS NS 33.3 56.2 ND	NS NS NS NS ND NT NT NT ND ND ND ND ND ND	NS NS NT
MW-5	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/02/11 02/10/98 03/23/99	1.32 NA	NS 16.5 ND ND ND 15.2 13.1 11.0 ND ND ND ND ND ND ND ND ND 1.0 45.0 6.32J 523.0 NS NS NS NS	NS ND	NS NS NS ND 1.13 NS ND 1.13 ND ND ND ND ND ND 1.14 NS	Dry NS NS NS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND 11.5 18.6 12.731 NS NS NS NS	NS	NS N	NS NS NS NS ND NT NT NT NT ND ND ND ND ND	NS NS NT
	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/02/11 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04	1.32 NA	NS 16.5 ND ND ND ND 11.0 ND	NS ND	NS NS NS ND L113 NS ND S100 ND ND ND ND ND ND ND ND ND NS NS NS NS NS NS	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 74.2 37.8 ND NS 8.61 2.731 NS NS NS NS NS NS	NS	NS NS NS 33.3 56.2 ND	NS NS NS NS ND NT NT NT ND ND ND ND ND ND	NS NS NT
	02/10/98 03/29/99 07/05/01 07/05/01 07/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/99/08 02/23/09 11/23/09 11/23/09 11/23/09 03/29/99 03/29/99 04/20/05 04/23/05 04/23/05 04/23/05 04/23/05 04/23/05 04/23/05	1.32 NA	NS 16.5 ND ND ND 25.2 23.1 11.0 ND NS NS NS NS NS NS NS	NS ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 S. ND ND ND ND ND ND ND ND NS	Dry NS NS SS 6.83 6.26 ND 32.4 8.7 ND	NS NS 23.33 7.39 ND 75.2 37.8 11.0 ND ND ND ND ND ND ND NS	NS N	NS N	NS NS NS ND NT NT NT NT ND ND ND ND ND	NS
	02/10/98 03/29/99 03/29/99 07/05/01 01/28/03 02/23/04 01/20/05 02/23/06 05/29/07 09/08/08 03/23/09 11/02/11 02/11/02/11 02/10/05 03/29/99 07/05/01 01/28/03 02/23/06 05/29/07 09/08/08	1.32 NA	NS 16.5 ND ND ND ND 25.2 11.0 ND NS	NS ND ND ND 11.5 4.0 ND	NS N	Dry NS NS 6.83 6.26 ND 12.4 8.7 ND NS	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND NS	NS N	NS N	NS NS NS NS NS NI NI NI NI NI	NS N
	02/10/98 03/29/99 07/05/01 01/28/03 07/05/01 01/28/03 02/20/04 01/20/05 02/23/06 04/23/07 09/09/08 02/23/09 11/23/09 11/23/09 07/05/01 01/28/03 02/23/06 01/20/05 02/23/06 01/20/05 02/23/07 09/09/08	1.32 NA	NS 16.5 ND ND ND 25.2 23.1 11.0 ND	NS ND	NS N	Dry NS NS 6.83 6.26 ND	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND	NS NS NS ND	NS N	NS NS NS NS NS NS NS NS NT NT	NS
	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/28/03 02/02/04 01/28/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/23/09 03/29/99 07/05/01 01/28/03 02/23/06 02/23/06 02/23/06 02/23/09 11/23/09 11/23/09 11/23/09 11/23/09	1.32 NA	NS 16.5 ND ND ND ND 25.2 1.1.0 ND NS	NS ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 5.10 2.0 ND ND ND ND ND 1.83 1.83 2.44 1.44 NS N	Dry NS NS SS 6.36 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND ND NS NS SS NS	NS NS 23.33 7.39 ND ND ND ND ND ND ND ND NS	NS N	NS NS NS NS ND	NS NS NS NS NS NI NI NI NI NI	NS N
	02/10/98 03/29/99 07/05/01 01/28/03 07/05/01 01/28/03 02/23/06 02/23/06 03/23/06 11/02/01 02/03/06 11/02/11 02/11/02/11 02/11/02/11 02/11/02/11 02/11/02/11 02/11/02/11 02/11/02/11 02/11/02/11 02/11/02/11 02/11/02/03 03/29/99 07/05/01 01/28/07 03/29/99 07/05/01 01/28/07 03/29/07 09/09/08 03/23/09 11/23/09 11/23/09 11/23/09 11/23/09 11/23/09	1.32 NA	NS 16.5 ND ND ND ND 15.2 1.1.10 ND NS	NS ND ND ND 11.5 14.0 ND	NS N	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND ND NS	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND ND 17.5 NS	NS N	NS N	NS NS NS NS NS ND NT NT NT NT ND ND ND ND ND	NS N
	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/28/03 02/02/04 01/28/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 11/23/09 03/29/99 07/05/01 01/28/03 02/23/06 02/23/06 02/23/06 02/23/09 11/23/09 11/23/09 11/23/09 11/23/09	1.32 NA	NS 16.5 ND ND ND ND 25.2 1.1.0 ND NS	NS ND ND ND 11.5 4.0 ND	NS NS ND 1.13 ND 5.10 5.10 2.0 ND ND ND ND ND 1.83 1.83 2.44 1.44 NS N	Dry NS NS SS 6.36 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND ND NS NS SS NS	NS NS 23.33 7.39 ND ND ND ND ND ND ND ND NS	NS N	NS NS NS NS ND	NS NS NS NS NS NI NI NI NI NI	NS N
	02/10/98 03/29/99 07/05/01 01/28/03 07/05/01 01/28/03 02/23/06 05/23/06 05/23/06 05/23/09 11/02/11 02/10/98 03/23/09 11/02/11 02/10/98 03/23/09 07/05/01 01/28/03 03/23/09 07/05/01 01/28/03 03/23/09 11/23/09 07/05/01	1.32 NA	NS 16.5 ND NS	NS ND ND ND ND ND NS	NS NS NS ND L13 ND 5,10 2,0 ND ND ND ND ND ND ND NS	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND ND NS	NS NS 23.33 7.39 ND 74.2 37.8 ND ND ND ND ND ND ND NS	NS N	NS NS SS NS N	NS	NS N
	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/28/03 02/02/04 01/20/05 02/23/06 02/23/06 02/23/06 02/23/06 02/23/09 11/02/07 03/29/09 07/05/01 01/28/03 02/23/06 01/28/03 02/23/09 11/02/11 02/10/05 02/23/06 01/28/03 02/23/09 11/02/11 09/15/09 07/05/01 01/28/03 02/23/09 01/02/05/04 01/09/05/05/07 09/05/05/07 09/05/07	1.32 NA	NS 16.5 ND ND ND ND 25.2 23.1 11.0 ND NS	NS ND ND ND ND NS ND	NS NS ND 1.13 ND	Dry NS NS SS 6.83 6.26 6.26 ND 32.4 8.7 ND ND ND ND ND ND ND NS NS SS SS NS NS NS NS NS NS NS NS NS	NS NS 23.33 7.39 ND 73.2 11.0 ND ND ND ND NS	NS NS NS ND	NS NS NS S5.2 ND 5.0 ND	NS NS NS NS NS NS ND NI NI NI NI ND ND ND ND ND	NS NS NT NT NT NS
MW-6	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/02/03 03/02/04 01/02/04 01/02/05 02/02/04 01/02/05 02/02/04 01/02/05 00/02/04 01/02/04	1.32 NA	NS 16.5 ND ND ND ND 12.5.2 23.1 11.0 ND ND ND ND ND SE 10 45.0 0.3221 NS	NS ND ND ND 11.5 4.0 ND NS	NS NS NS ND 1.13 ND ND ND ND ND ND ND NS	Dry NS NS SS 6.83 6.26 ND 12.4 8.7 ND ND ND ND ND ND ND ND NS NS 10.0 3.61 4.0 NS	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND 17.5 NS	NS NS NS ND	NS NS S0.2 ND ND ND NS	NS NS NS NS NS NI NI NI NI NI	NS N
MW-6	02/10/98 03/29/99 07/05/01 01/28/03 07/05/01 01/28/03 07/05/01 01/28/03 07/23/06 05/23/06 05/23/09 11/02/11 02/10/98 03/23/09 11/02/11 02/10/98 03/23/09 07/05/01 01/28/03 02/23/06 01/28/03 02/23/06 11/23/09 11/23/09 11/23/09 11/23/09 11/23/09 11/23/09 11/23/09 11/23/09 11/23/09 07/05/01 01/28/03	1.32 NA	NS 16.5 ND ND ND 25.2 11.0 ND	NS ND ND ND ND ND NS	NS NS NS ND L13 ND 5,10 2,0 ND ND ND ND ND ND ND ND ND NS	Dry NS NS 6.83 6.26 ND 32.4 8.7 ND NS	NS NS 23.33 7.39 ND	NS NS NS ND ND ND NS	NS NS SS NS N	NS	NS NS NS NT
MW-6	02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/02/03 03/02/04 01/02/04 01/02/05 02/02/04 01/02/05 02/02/04 01/02/05 00/02/04 01/02/04	1.32 NA	NS 16.5 ND ND ND ND 12.5.2 23.1 11.0 ND ND ND ND ND SE 10 45.0 0.3221 NS	NS ND ND ND 11.5 4.0 ND NS	NS NS NS ND 1.13 ND ND ND ND ND ND ND NS	Dry NS NS SS 6.83 6.26 ND 12.4 8.7 ND ND ND ND ND ND ND ND NS NS 10.0 3.61 4.0 NS	NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND 17.5 NS	NS NS NS ND	NS NS S0.2 ND ND ND NS	NS NS NS NS NS NI NI NI NI NI	NS N

Historical Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #42024 BLE Project No. J11-1010-17

MW-9 MW-10		Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	1400.00	Xylenes (µg/L)	10000	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DC (µg/L
MW-9	RBSL	NA	5	1,000	700	10,000		40	25	0.05	- 5
MW-9	09/15/99	NA.	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-9	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-9	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-9	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-9	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-10	09/09/08	NA:	NT	NT	NT	NT	ND	NT	NT	NT	NT
MW-10	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	11/23/09	NA.	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	< 0.020	<5.0
MW-10	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	< 0.019	<5.0
MW-10	02/03/04	NA .	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	01/20/05	NA.	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	02/23/06	NA.	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10											
	05/29/07	NA.	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	< 0.019	<5.0
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA.	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-11	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW-11	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-11	11/23/09	NA	<5.0	<5.0	<5.0	5.43	5.4J	<5.0	<5.0	<0.020	<5.0
MW-11	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	< 0.020	<5.0
MW-11	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NI
MW-11	01/20/05	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-11	02/24/06	NA.	ND	ND	ND	ND	ND	ND	ND	ND	NI
MW-11	05/29/07	NA NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
		144				- 117	3.465		217		211
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NI
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
$\overline{}$	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	< 0.020	<5.0
L	02/24/06	NA.	ND	ND	ND	ND	ND	6.1	ND	ND	NT
L	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
MW-12	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09					Dry					
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	14.0	<5.0	< 0.02	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	18.0	<5.0	< 0.019	<5.0
	02/24/06	NA	100	ND	ND	110	210	ND	100	0.76	NI
	05/29/07	NA	160	ND	ND	199	359	ND	170	0.62	NI
	09/09/08	NA	77	ND	ND	101	178	ND	226	0.162	ND
MW-13	02/23/09	NA	23.5	ND	ND	46.2	69.7	ND	68.1	0.18	NT
- F	11/23/09	NA.	23.6	<5.0	<5.0	69.4	93.0	<5.0	58.4	0.46	<5.0
H	11/02/11	NA NA	34	<5.0	<5.0	82.0	116.0	1.73	130	0.30	<5.
_	02/24/06	NA NA	160	34.0	480	620	1,294	ND.	160	0.46	NI
					550	700			250		
-	05/29/07 09/09/08	NA NA	220 82.4	ND 3.81	54.8	67.1	1,470 208.11	ND ND	75	0.26	NT ND
MW-14				9,9	303		607.7		194	0.118	_
	02/23/09	NA NA	175			119.8		1.9	-		NI
-	11/23/09	NA NA	150	10.5 2.0J	263	93.8J 4.3J	517.3 107.3J	<10.0 <5.0	81.5	0.084	<10.
		NA	36						29	0.013J	
W-14 (DUP)	11/02/11	NA	200	12.0	510.0	40.0	762	0.53J	140	0.031	<5.0
-	02/24/06	NA	100	8.0	25.0	160	293	ND	140	0.54	NI
-	05/29/07	NA	190	12.0	21	240	463	ND	390	0.45	NI
MW-15	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS NS	NS	NS
	02/23/09	0.13	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	0.90	NS	NS	NS	NS	NS	NS	NS	NS	NS
		0.87	NS	NS	NS	NS	NS	NS	NS	NS	NS
1.0000000000000000000000000000000000000	11/02/11		ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-16		NA.	ND			<10.0	ND	<5.0	<5.0	< 0.020	<5.
	11/02/11	NA NA	<5.0	<5.0	<5.0						
	11/02/11 02/23/09			<5.0 <5.0	<5.0 <5.0	<5.0	ND	<5.0	<5.0	< 0.019	<5.0
MW-17	11/02/11 02/23/09 11/24/09 11/02/11	NA NA	<5.0 <5.0	<5.0	<5.0			_	_	-01477	_
armond to	11/02/11 02/23/09 11/24/09 11/02/11 02/23/09	NA NA 0.79	<5.0 <5.0 NS	<5.0 NS	<5.0 NS	NS	NS	NS	NS	NS	NS
_	11/02/11 02/23/09 11/24/09 11/02/11 02/23/09 11/23/09	NA NA 0.79 2.31	<5.0 <5.0 NS NS	<5.0 NS NS	<5.0 NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
MW-18	11/02/11 02/23/09 11/24/09 11/02/11 02/23/09 11/23/09 11/02/11	NA NA 0.79 2.31 1.65	<5.0 <5.0 NS NS NS	<5.0 NS NS NS	<5.0 NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS
24 W-18	11/02/11 02/23/09 11/24/09 11/02/11 02/23/09 11/23/09 11/02/11 02/23/09	NA NA 0.79 2.31 1.65 0.45	<5.0 <5.0 NS NS NS NS	<5.0 NS NS NS NS	<5.0 NS NS NS NS	NS NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS	<5.0 NS NS NS
	11/02/11 02/23/09 11/24/09 11/02/11 02/23/09 11/23/09 11/02/11 02/23/09 11/23/09	NA NA 0.79 2.31 1.65 0.45	<5.0 <5.0 NS NS NS NS NS	<5.0 NS NS NS NS	<5.0 NS NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS	NS NS NS NS
Field Blank Trip Blank	11/02/11 02/23/09 11/24/09 11/02/11 02/23/09 11/23/09 11/02/11 02/23/09	NA NA 0.79 2.31 1.65 0.45	<5.0 <5.0 NS NS NS NS	<5.0 NS NS NS NS	<5.0 NS NS NS NS	NS NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS	NS NS NS

Notes: µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milligrams-liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSLs

Bold and shaded cells indicate concentrations above RBSLs

NA = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled due to the presence of free-product

NE = RBSL has not been established

RBSL = Risk Based Screening Level

J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.

* Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event:
therefore no groundwater data is available. The well was abandoned on 12/5/05.

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #42024 BLE Project No. J11-1010-17

Boring ID#	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (μg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Alcohol (ETE (µg/L)					
SC DHE	C RBSL	128	240	NE	1,400	150	10,000	47	NE					
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-1	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS					
MW-2	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	NT	70.5	NT	NT	NT	NT	NT	NT					
MW-2D	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
MW-3	02/23/06				Well At	andoned								
	02/23/09	Well not sampled due to 0.60 feet of free product present												
MW-3R	11/23/09					4 feet of free pro								
	11/02/11					5 feet of free pro								
	02/23/09						anti present							
MW-4	11/23/09	Dry												
24.11-4	11/02/11	Well not sampled due to 0.47 feet of free product present Well not sampled due to 1.32 feet of free product present												
1000	02/23/09	NT	NT -100	NT -50.0	NT	NT	NT	NT	NT					
MW-5	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	Dry												
MW-6	11/23/09	Well not sampled due to 3.10 feet of free product present												
	11/02/11			Well not sa	mpled due to 2.9	0 feet of free pro	luct present							
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-7	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-8	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
MW-0	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-9	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
24.44-2														
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-10	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-11	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09				D	ry								
MW-12	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	0.67J	<20.0	<5.0	<20.0	<5.0	46J	<1.0	<20.0					
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-13	11/24/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	9.1J	<5.0	117	<5.0	<100	<1.0	<20.0					
	02/23/09	NT	NT	NT NT	NT	NT NT	NT	NT NT	NT					
MW-14	11/23/09	<20.0	<200	<100	<200	<10.0	<400	<20.0	<200					
MW-14														
W 14 22 2	11/02/11	<10.0	<20.0	<5.0	22	<5.0	<100	<1.0	<20.0					
W-14 (DUP)	11/02/11	<10.0	72	<5.0	21	<5.0	<100	<1.0	<20.0					
	02/23/09					3 feet of free pro								
MW-15	11/23/09					0 feet of free pro								
	11/02/11			Well not sa	mpled due to 0.8	7 feet of free pro-	luct present							
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
MW-16	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100					
	11/02/11	<10.0	<20.0	<5.0	<20.0	<5.0	<100	<1.0	<20.0					
	02/23/09			Well not sa	mpled due to 0.7	9 feet of free pro	duct present							
MW-17	11/23/09					1 feet of free pro								
	11/02/11					5 feet of free pro								
	02/23/09					5 feet of free pro-								
MW.10	11/22/00			wen not sa	impreu ude to 0.1	1 feet of free pro-	oot present							
MW-18	11/23/09			111-11	malad description		hant many							
MW-18	11/23/09 11/02/11 11/02/11	<10.0	<20.0	Well not sa	mpled due to 0.5	6 feet of free pro	duct present	<1.0	<20.0					

Notes:

µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

Bold and shaded cells indicate concentrations above RBSLs

ND = Not Detected at the Method Detection Limit

NT = Not Tested

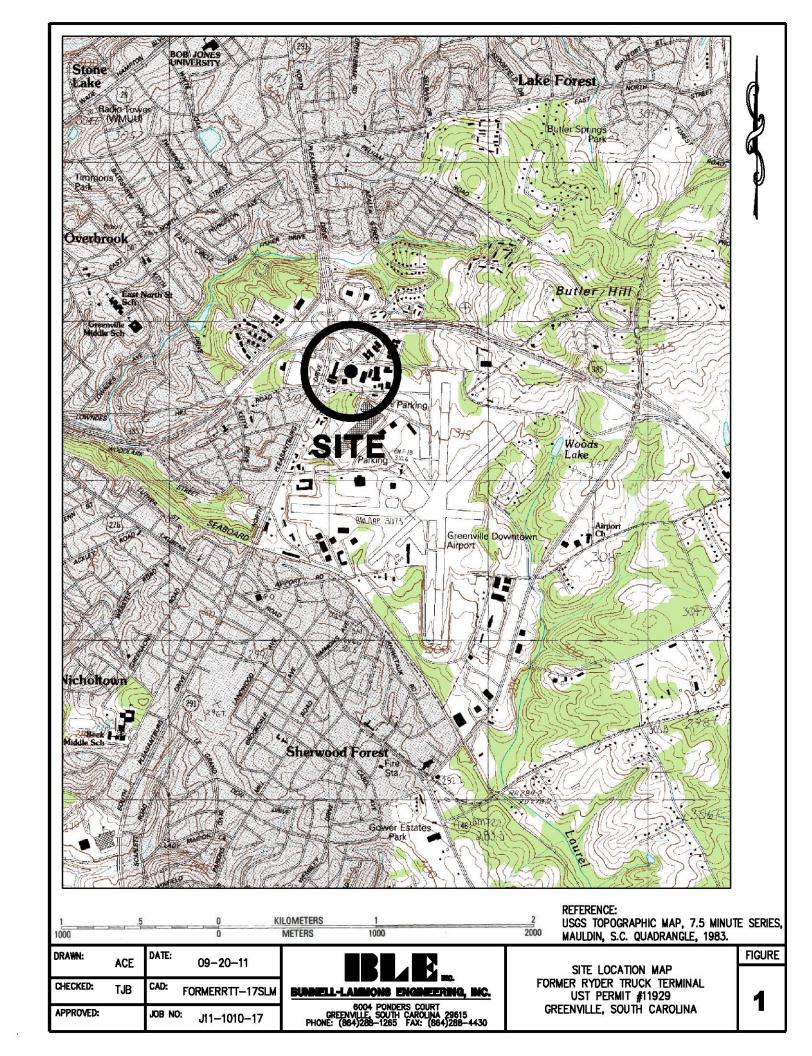
NE = RBSL has no been established

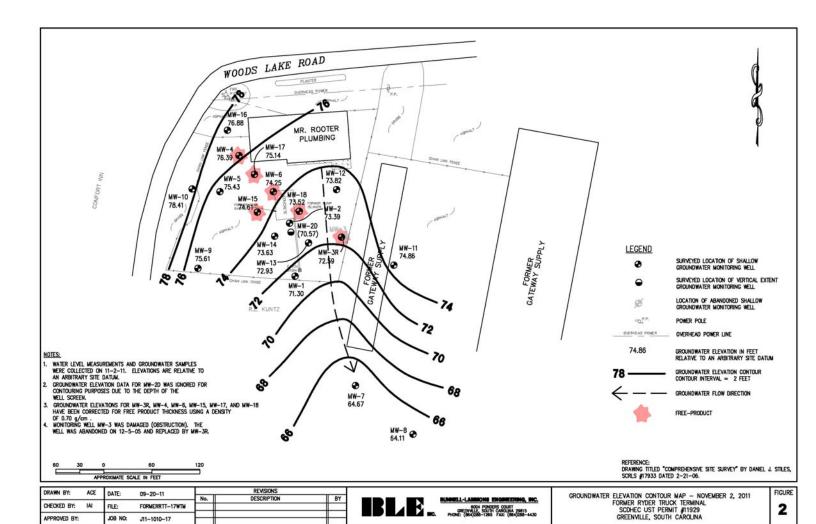
RBSL = Risk Based Screening Level

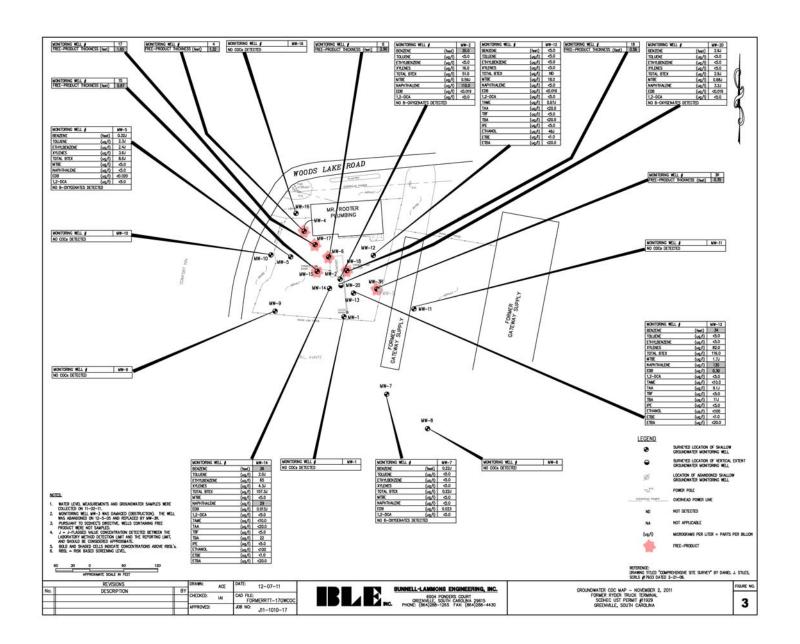
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.

The well was abandoned on 12/5/05.











APPENDIX A MONITORING WELL SAMPLING PROCEDURES AND SAMPLING LOGS

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged only if the well screen did not bracket the water table. Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon[®] lined lids and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and delivered via courier to Shealy Environmental Services in West Columbia, South Carolina for analysis.



							Page	1	of	19
Date	November 2, 2011			-	Well#	MW-1				
Field Personnel		Ivan A. Irizarry					- 48			
General weather	Conditions	Sunny to partly cloud	dy	-	Well Diameter	(D)	2	inch of	31.00	feet(ft)
Ambient Air Tem	[] [[[[[[[[[[[[[[[[[[66		_		ctor (C): 3.143*(I	D/2)^2			_ ` ` `
	x 8 x 			_		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Truck Terminal	Site ID #:		1929		for a 4 inch well	C = 0.652			
					*Free Product	Thickness		NA	ft	
	Quality As	ssurance			Total Well De	pth (TWD)		31.00	ft	
					Depth to Grou	ndwater (DGW)		29.40	ft	
pH Sensor:	Oakton 35630-62	Conductivity Se	ensor:	35630-32	Length of Wa	ter Colum (LWC :	= TWD-DGW)		1.60	ft
Serial No.	324976	Serial No.	3.	24976	1 Casing Volu	me (LWC*C) =	1.60	X .17 =	0.27	gals
pH =4.0	4.0	Standard			3 Casing Volu	mes = 3 X	0.27	=	0.82	gals
pH = 7.0	7.0	Standard					(Standard Purge	Volume)		_
pH = 7.0		Standard	,							
pH = 10.0		Standard								
	Chain of	Custody			Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A.	Irizarry 11/2/11:1314	She	aly	11/2/11:1314	*If free produc	t is present over	1/8 inch, sampling	will not be require	ed.	
Relinqu	ished by Date/Time	Receiv	ed by	Date/Time	20	70	E \$50 K	555		
	Vivos established		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ged (gallons))	
Time (militar	ry)		1100				1			
pH (s.u)			5.05							
Specific Con			65.5							
Water Temp	erature (°C)		17.2		. 1				0	
Turbidity (su	bjective: clear, slightly cloud	ly, cloudy)	Clear							
Dissolved Ox	xygen (mg/l)		2.9							
Remarks:	Well sampled at 1100 on	November 2, 20	<u>011.</u>							



					Page	2	of	19
Date November 2, 2011			Well#	MW-2				
Field Personnel Ivan A. Irizarr	/				•8			
General weather Conditions Sunny		-	Well Diameter	(D)	2	inch of	30.00	feet(ft)
Ambient Air Temperature (°F) 66			conversion fac	ctor (C): 3.143*(I	0/2)^2			
38 B B				for a 2 inch well	C = 0.163			
Facility Name: Former Ryder Truck Terminal Site ID	t: 1	1929		for a 4 inch well	C = 0.652			
			*Free Product	Thickness		NA	ft	
Quality Assurance			Total Well De	pth (TWD)		30.00	ft	
			Depth to Grou	ndwater (DGW)		26.71	ft	
pH Sensor: Oakton 35630-62 Conductivity		35630-32	Length of Wa	ter Colum (LWC =	= TWD-DGW)		3.29	ft
Serial No. 324976 Serial No.	32	24976	1 Casing Volu	me (LWC*C) =	3.29	X .17 =	0.56	gals
pH =4.0 4.0 Standard			3 Casing Volu	mes = 3 X	0.56	=	4.98	gals
pH = 7.0 7.0 Standard	10				(Standard Purge	Volume)		
pH = 7.0 Standard								
pH = 10.0 Standard								
Chain of Custody			Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A. Irizarry 11/2/11:1314	Shealy	11/2/11:1314	*If from produce	tie erecent ever	1/8 inch, sampling			
	eived by	Date/Time	ii iiee produc	it is present over	i/o irich, sampling	will not be require	au.	
Reinquisited by Date Time Rei	cived by	Daterrine						
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		TSU VOI.	Zilu voi.	Sid voi.	401 VOI.	3til VOI.	FUSI	Sample
Time (military)	1108	1						
pH (s.u)	5.10	1				4		
Specific Conductivity	77.7	+				-		+
Water Temperature (°C)	18.5							+
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	1						
Dissolved Oxygen (mg/l)	3.8	1						_
zissii sa saygan (mgn)	0.0						1.	1
Remarks: Well sampled at 1108 on November 2,	2011.							



Date	November 2, 2011					Well#	MW-2D				
Field Personnel			Ivan A. Irizarry					48			
General weather	Conditions	÷	Sunny			Well Diameter	(D)	2	inch of	54.50	feet(ft)
Ambient Air Tem	perature (°F)		66			conversion fac	ctor (C): 3.143*(I	0/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tru	uck Terminal	Site ID #:	11	1929		for a 4 inch well	C = 0.652			
1,000 100 100 100 100 100 100 100 100 10						*Free Product	Thickness		NA	ft	
		Quality Assi	urance			Total Well Dep	oth (TWD)		54.50	ft	
					Λ.	Depth to Grou	ndwater (DGW)		28.72	ft	
pH Sensor:	Oakton 356	30-62	Conductivity Se	ensor:	35630-32	Length of Wat	ter Colum (LWC =	= TWD-DGW)		25.78	ft
Serial No.	32497	6	Serial No.	32	4976	1 Casing Volu	me (LWC*C) =	25.78	X .17 =	4.38	gals
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	4.38	=	13.15	gals
pH = 7.0	7.0		Standard	Y X				(Standard Purge	Volume)		
pH = 7.0			Standard								
pH = 10.0			Standard								
~		01 : 10				-	,,,, p	D (40.5	75
		Chain of Cu	istody			l otal Volume	of Water Purged	Before Sampling	25	13.5	gals
Ivan A.	Irizarry	11/2/11:1314	She	aly	11/2/11:1314	*If free produc	t is present over	1/8 inch, sampling	g will not be require	ed.	
Relinqui	ished by	Date/Time	Receiv	red by	Date/Time				***		
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ed (gallons)				4.5	9.0	13.5		j j		
Time (military	y)			1150	1159	1207	1218	1			
pH (s.u)				5.47	5.82	5.92	5.86				
Specific Cond	ductivity			120.6	126.7	115.2	110.2	1			
Water Tempe	erature (°C)			19.5	18.9	18.9	18.3)	
Turbidity (sub	ojective: clear, s	lightly cloudy	, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Ox	(ygen (mg/l)			4.9							
	30 31 31	<u> </u>			- 220					10.	
Remarks:	Well sampled	at 1218 on N	ovember 2, 20	<u>011.</u>							ļ



						Page	4	of	19
Date November 2, 2011				Well#	MW-3R				
Field Personnel	Ivan A. Irizarry			110	mir on	•			
General weather Conditions	Sunny			Well Diameter	(D)	2	inch of	32.40	feet(ft)
Ambient Air Temperature (°F)	66				ctor (C): 3.143*([02.10	
			•8	ll .	for a 2 inch well (
Facility Name: Former Ryder Tro	uck Terminal Site ID #:	11	929		for a 4 inch well (C = 0.652			
				*Free Product	Thickness		0.35	ft	
	Quality Assurance			Total Well Dep	oth (TWD)		32.40	ft	
				Depth to Grou	ndwater (DGW)		26.65	ft	
pH Sensor:	Conductivity S	ensor:		Length of Wat	ter Colum (LWC =	TWD-DGW)		NA	ft
Serial No.	Serial No.			1 Casing Volu	me (LWC*C) =	NA	X .17 =	NA	gals
pH =4.0	Standard			3 Casing Volu		NA	= .	NA	gals
pH = 7.0	Standard					(Standard Purge	Volume)		
pH = 7.0	Standard	-							
pH = 10.0	Standard								
70.	Chain of Custody			Total Volume	of Water Purged [Before Sampling		NA	gals
				*If free produc	t is present over 1	1/8 inch, sampling	will not be require	ed.	
				I					
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)									
Time (military)						0			
pH (s.u)									
Specific Conductivity									
Water Temperature (°C)									
Turbidity (subjective: clear, s	lightly cloudy, cloudy)					1			
Dissolved Oxygen (mg/l)									
Remarks: Well not samp	oled due to 0.35 feet of free	-phase petro	leum product	present.					



						Page	5	of	19
Date November 2, 2011				Well#	MW-4				
Field Personnel	lvan A. Irizarry				***************************************	•8			
General weather Conditions	Sunny		•	Well Diameter	(D)	2	inch of	29.50	feet(ft)
Ambient Air Temperature (°F)	66		-		ctor (C): 3.143*(I		** ***********************************	1000000	_
20 65 25			- 0		for a 2 inch well	C = 0.163			
Facility Name: Former Ryder T	ruck Terminal Site ID #:	11	929		for a 4 inch well	C = 0.652			
90.00 per 80.00 per 90.00 per 90.00 per				*Free Product	Thickness		1.32	ft	
	Quality Assurance			Total Well De	pth (TWD)		29.50	ft	
				Depth to Grou	indwater (DGW)		27.20	ft	
pH Sensor:	Conductivity S	Sensor:		Length of Wa	ter Colum (LWC =	TWD-DGW)		NA	ft
Serial No.	Serial No.			1 Casing Volu	me (LWC*C) =	NA	X .17 =	NA	gals
pH =4.0	Standard			3 Casing Volu	mes = 3 X	NA	=	NA	gals
pH = 7.0	Standard					(Standard Purge	Volume)		
pH = 7.0	Standard								
pH = 10.0	Standard								
	Chain of Custody			Total Makema	of Water Purged	Defens Complian		NA	
	Chain of Custody			Total volume	or water Purged	before Sampling		INA	gals
				*If free produc	t is present over	1/8 inch, sampling	will not be require	ed.	
Relinquished by	Date/Time Rece	ived by	Date/Time						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								0	
Time (military)						1			
pH (s.u)									
Specific Conductivity		-							
Water Temperature (°C)								0	
Turbidity (subjective: clear,	slightly cloudy, cloudy)					1			
Dissolved Oxygen (mg/l)									
Remarks: WII not samp	led due to 1.32 feet of free	phase petrole	eum product p	resent.					



Page 6

Date	November 2, 2011					Well#	MW-5				
Field Personnel		lva	n A. Irizarry					- 46			
General weather	Conditions	12 (X	Sunny			Well Diameter	(D)	2	inch of	29.00	feet(ft)
Ambient Air Temp	perature (°F)		66		_	conversion fac	tor (C): 3.143*(D/2)^2			- 0.011177.0400
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Product	Thickness		NA	ft	
		Quality Assurar	ice			Total Well De	oth (TWD)		29.00	ft	
10000000111							ndwater (DGW)		26.05	ft	500m2 ft
pH Sensor:	Oakton 35	630-62	Conductivity Se	ensor:	35630-32	Length of Wat	er Colum (LWC :	= TWD-DGW)		2.95	_ft
Serial No.	32497		Serial No.	32	24976		me (LWC*C) =	2.95	X .17 =	0.50	gals
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	0.50	. =	1.50	gals
pH = 7.0	7.0		Standard					(Standard Purge	Volume)		
pH = 7.0			Standard								
pH = 10.0			Standard -								
		Chain of Custo	dv			Total Volume	of Water Purged	Before Sampling		NA	gals
9000090		THE STATE OF THE S					1753 	(E) (E			
Ivan A.		11/2/11:1314	She	-	11/2/11:1314	*If free produc	t is present over	1/8 inch, sampling	will not be requi	ed.	
Relinqui	sned by	Date/Time	Receiv	rea by	Date/Time						
						0 11/1	0.11/1	*** ** *	50.14.1		
Maluma Duna	ad (mallana)			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg				1110							
Time (military	y)			1118 5.24							+
pH (s.u) Specific Cond	du ativitu			138.2	4						+
Water Tempe				19.2	-						
		slightly cloudy, cl	oudy)	Clear	1						+
Dissolved Ox		signity Goddy, G	oudy)	3.4	+	-					+
Dissolved Ox	ygen (mg/i)			3.4							
Remarks:	Well sampled	at 1118 on Nove	ember 2, 20	011.							



						Page	7	of	19
Date November 2, 2011				Well#	MW-6				
Field Personnel	Ivan A. Irizarry				-	- .8			
General weather Conditions	Sunny		-8	Well Diamete	r (D)	2	inch of	29.50	feet(ft)
Ambient Air Temperature (°F)	66		-	conversion fa	ctor (C): 3.143*(D/2)^2	in valuables in		. 0.5193 7.5544
					for a 2 inch well	C = 0.163			
Facility Name: Former Ryder Tru	ck Terminal Site ID #:	11	929		for a 4 inch well	C = 0.652			
				*Free Product	Thickness		2.90	ft	
	Quality Assurance			Total Well De	pth (TWD)		29.50	ft	
				Depth to Grou	indwater (DGW)		29.52	ft	
pH Sensor:	Conductivity S	ensor:	_	Length of Wa	ter Colum (LWC:	= TWD-DGW)		NA	ft
Serial No.	Serial No.			1 Casing Volu	ime (LWC*C) =	NA	X .17 =	NA	gals
pH =4.0	Standard			3 Casing Volu	imes = 3 X	NA	= .	NA	gals
pH = 7.0	Standard	10 21				(Standard Purge	Volume)		
pH = 7.0	Standard								
pH = 10.0	Standard								
	Chain of Custody			Total Volume	of Water Durged	Before Sampling		NA	gals
	Ondin or oddiody				373	67. 6			
		70.02 9 0.0		*If free produc	ct is present over	1/8 inch, sampling	will not be require	ed.	
Relinquished by	Date/Time Recei	ved by	Date/Time						
		E-ARTON C	4	0 11/1	0 11/1	40.14.1	50.17.1		0
Values Breed (sellers)		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)									
Time (military) pH (s.u)			ļ		-		-		
Specific Conductivity			ł		-				-
									_
Water Temperature (°C) Turbidity (subjective: clear, sl	ightly cloudy, cloudy)							3	1
	ignity cloudy, cloudy)		-				-		_
Dissolved Oxygen (mg/l)									
Remarks: Well not sample	ed due to 2.90 feet of free	e-phase petro	leum product	present.					
				10 John 1981					



						12					
Date	November 2, 2011	87				Well#	MW-7	-02			
Field Personnel		S	Ivan A. Irizarry								
General weather	Conditions	W	Sunny			Well Diameter	(D)	2	inch of	32.80	feet(ft)
Ambient Air Temp	perature (°F)		66			conversion fac	tor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tru	uck Terminal	Site ID #:	1	11929	- 2000 - 2-4 pt 2014 - 2000 - 200	for a 4 inch well	C = 0.652			
						*Free Product			NA	ft	
		Quality Assu	rance			Total Well Dep			32.80	ft	
					390000000000000000000000000000000000000		ndwater (DGW)		28.00	ft	
pH Sensor:	Oakton 356		Conductivity Se		35630-32	277	er Colum (LWC	- Table		4.80	— ^{ft}
Serial No.	32497		Serial No.	3	24976	1000	me (LWC*C) =	4.80	. X .17 =	0.82	gals
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	0.82	. =	2.46	gals
pH = 7.0	7.0		Standard					(Standard Purge	Volume)		
pH = 7.0			Standard								
pH = 10.0			Standard								
		Chain of Cu	stody			Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A.	lrizoro/	11/2/11:1314	She	ob.	11/2/11:1314	*If from produce	t is present over	1/8 inch, sampling	will not be requi	rod.	
Relinqui		Date/Time	Receiv	,	Date/Time	ii ii ee produc	t is present over	170 Irich, Sampling	wiii not be requi	eu.	
rtomiqui	Silod by	Date Time	1100011	ou by	Butto Timo						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ed (gallons)										
Time (military	y)			0900				1			
pH (s.u)				5.12							
Specific Cond	ductivity			41.3							
Water Tempe	erature (°C)			18.6							
Turbidity (sub	ojective: clear, s	lightly cloudy,	cloudy)	Clear						į.	
Dissolved Ox	(ygen (mg/l)			3.6							
Remarks:	Well sampled	at 900 on Nov	rember 2, 20°	<u>11.</u>							



							Page	9	of	19
Date Nove	ember 2, 2011				Well#	MW-8				
Field Personnel		Ivan A. Irizarry					- 88			
General weather Cond	ditions	Sunny		-8	Well Diameter	r (D)	2	inch of	29.80	feet(ft)
Ambient Air Temperate	ure (°F)	66		_	conversion fac	ctor (C): 3.143*(D/2)^2	n		
	S A ***					for a 2 inch well	C = 0.163			
Facility Name: Fo	ormer Ryder Truck Terminal	Site ID #:	. 1	1929		for a 4 inch well	C = 0.652			
					*Free Product	Thickness		NA	ft	
	Quality Ass	urance			Total Well De	pth (TWD)		29.80	ft	
					Depth to Grou	indwater (DGW)		24.65	ft	
pH Sensor:	Oakton 35630-62	Conductivity S	ensor:	35630-32	Length of Wa	ter Colum (LWC:	= TWD-DGW)		5.15	ft
Serial No.	324976	Serial No.	32	24976	1 Casing Volu	ime (LWC*C) =	5.15	X .17 =	0.88	gals
pH =4.0	4.0	Standard			3 Casing Volu	imes = 3 X	0.88	=	2.64	gals
pH = 7.0	7.0	Standard					(Standard Purge	Volume)		
pH = 7.0		Standard								
pH = 10.0		Standard								
	Chain of C	ustody			Total Volume	of Water Purged	Before Sampling		NA	gals
h A 1-i	- 44044-4244	01-	-1.	44/2/44/4244	*16.6		1/8 inch, sampling			
Ivan A. Irizan Relinquished		She	-	11/2/11:1314 Date/Time	ar free produc	it is present over	1/6 inch, sampling	will not be require	a.	
Reilliquistieu	Date/Time	Receiv	red by	Date/Time						
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (rallons)			131 VOI.	Zila voi.	I SIG VOI.	401 VOI.	5til VOI.	1 031	Jampie
Time (military)	guilono		0849							7
			5.50							
pH (s.u)			57.4	1				1		
pH (s.u) Specific Conduct	tivity									-
Specific Conduct					1					1
Specific Conduct Water Temperatu		(cloudy)	20.0 Clear							



10

						10					
Date	November 2, 2011	87				Well#	MW-9	-02			
Field Personnel		S	Ivan A. Irizarry		_						
General weather	Conditions	9 X	Sunny			Well Diameter	(D)	2	inch of	30.70	feet(ft)
Ambient Air Tem	perature (°F)		66			conversion fac	tor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929	- 2000 - 2-4 pt 2014 - 2000 - 200	for a 4 inch well	C = 0.652			
						*Free Product			NA	ft	
		Quality Assu	ırance			Total Well Dep			30.70	ft	
					250000 250000 200		ndwater (DGW)		26.65	ft	
pH Sensor:	Oakton 356		Conductivity Se		35630-32	277	er Colum (LWC	100000000000000000000000000000000000000		4.05	— ^{ft}
Serial No.	32497		Serial No.	3	24976	1000	me (LWC*C) =	4.05	. X .17 =	0.69	gals
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	0.69	=	2.07	gals
pH = 7.0	7.0		Standard	-				(Standard Purge	Volume)		
pH = 7.0			Standard		-						
pH = 10.0			Standard		-						
		Chain of Cu	stody			Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A.	Irizoro/	11/2/11:1314	She	nohr	11/2/11:1314	*If free produc	t is present over	1/8 inch, sampling	will not be requi	rod	 xxx
Relinqui		Date/Time	Receiv	-	Date/Time	ii iice pioduc	t is present over	iro iricii, saripiirig	will flot be requi	ou.	
romiqui		Data Timo	7,000.		Date Time						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ed (gallons)) 1			Str.	0	
Time (military	y)			1128				1			
pH (s.u)				5.25							
Specific Cond	ductivity			38.9							
Water Tempe	erature (°C)			18.1					(3) (3)	0	
Turbidity (sub	ojective: clear, s	lightly cloudy,	cloudy)	Clear						į.	
Dissolved Ox	(ygen (mg/l)			1.4							
Remarks:	Well sampled	at 1128 on No	ovember 2, 20	<u>011.</u>							



							Page	11	of .	19
Date	November 2, 2011				Well#	MW-10				
Field Personnel		Ivan A. Irizarry					•\&			
General weather	Conditions	Sunny		-	Well Diameter	(D)	2	inch of	30.10	feet(ft)
Ambient Air Tem	perature (°F)	66				ctor (C): 3.143*(I	D/2)^2	• (1800) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (1900) (19		_
	A 8 %			-		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Truck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
					*Free Product	Thickness		NA	ft	
	Quality A	Assurance			Total Well De	oth (TWD)		30.10	ft	
				7	Depth to Grou	ndwater (DGW)		26.26	ft	
pH Sensor:	Oakton 35630-62	Conductivity Se	nsor:	35630-32	Length of Wat	ter Colum (LWC :	= TWD-DGW)	0	3.84	ft
Serial No.	324976	Serial No.	32	24976	1 Casing Volu	me (LWC*C) =	3.84	X .17 =	0.65	gals
pH =4.0	4.0	Standard			3 Casing Volu	mes = 3 X	0.65	=	1.95	gals
pH = 7.0	7.0	Standard					(Standard Purge	Volume)		
pH = 7.0		Standard								
pH = 10.0		Standard								
***	Chain o	f Custody			Total Volume	of Water Purged	Refore Sampling		NA	gals
						3.75	1671 65			
	Irizarry 11/2/11:131		-	11/2/11:1314	*If free produc	t is present over	1/8 inch, sampling	will not be requir	ed.	
Relinqu	ished by Date/Time	Receive	ed by	Date/Time						
5			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	, , ,			_						4
Time (militar	у)		0936							
pH (s.u)	1 1 2		4.51							-
Specific Con			41.2							1
	erature (°C)		18.1							4
	bjective: clear, slightly clou	idy, cloudy)	Clear							
Dissolved Ox	(ygen (mg/l)		5.5							
Remarks:	Well sampled at 0936 on	november 2, 20	<u>11.</u>							



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Date	November 2, 2011					Well#	MW-11				
Field Personnel			van A. Irizarry					- 46			
General weather	Conditions	56 66	Sunny			Well Diameter	(D)	2	inch of	31.00	feet(ft)
Ambient Air Temp	perature (°F)		66		_	conversion fac	tor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Product	Thickness		NA	ft	
		Quality Assur	ance			Total Well Dep			31.00	ft	
protests:					3840000000000000		ndwater (DGW)		25.8	ft	
pH Sensor:	Oakton 35		Conductivity Se		35630-32		er Colum (LWC:	= TWD-DGW)		5.20	— ^{ft}
Serial No.	3249		Serial No.	32	24976		me (LWC*C) =	5.20	. X .17 =	0.88	gals
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	0.88	. =	2.64	gals
pH = 7.0	7.0		Standard	2				(Standard Purge	Volume)		
pH = 7.0			Standard								
pH = 10.0			Standard								
		Chain of Cus	tody			Total Volume	of Water Purged	Before Sampling		NA	gals
		11/2/11:1314	She	-4.	44104444044	*16.6		410 1			
Ivan A. Relinqui		Date/Time	Receiv	,	11/2/11:1314 Date/Time	if free produc	t is present over	1/8 inch, sampling	will not be requi	ea.	
Keiiiiqui	siled by	Date/Time	Receiv	ved by	Date/Time						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ed (gallone)				TSUVOI.	Zild Vol.	Sid voi.	411 701.	Stil Vol.	Post	Sample
Time (military				0915	1						+ -
pH (s.u)	7)			4.46		-					-
Specific Cond	ductivity			392.0	+	-		-			-
Water Tempe				19.0	+						1
	ojective: clear, s	slightly cloudy	cloudy)	Clear	1					1	
Dissolved Ox		ongray croady,	o.ouuy/	3.9	1						1
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
Remarks:	Well sampled	at 0915 on No	vember 2, 20	<u>011.</u>							



Date November 2, 20	011			Well#	MW-12	-01			
Field Personnel	Iva	n A. Irizarry							
General weather Conditions	-	Sunny		Well Diamete	r (D)	2	inch of	30.90	feet(ft)
Ambient Air Temperature (°F)	2) 10	66		conversion fa	ctor (C): 3.143*(D/2)^2	70:		
					for a 2 inch well	C = 0.163			
Facility Name: Former Ryd	er Truck Terminal	Site ID #:	11929		for a 4 inch well	C = 0.652			
				*Free Product			NA	ft	
	Quality Assuran	се		Total Well De				ft	
				The single control of the control of the	undwater (DGW)		27.56	ft	
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	The state of the s	onductivity Sensor:	35630-32		ter Colum (LWC:			3.34	—ft
·		erial No.	324976	11	ıme (LWC*C) =	-	X .17 =	0.57	gals
pH =4.0		tandard		3 Casing Volu	ımes = 3 X	0.57	·	1.71	gals
pH = 7.0		tandard		1		(Standard Purge	Volume)		
pH = 7.0		tandard		1					
pH = 10.0	s	tandard		4					
	Chain of Custoo	yt		Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A. Irizarry	11/2/11:1314	Shealy	11/2/11:1314	*If free produc	ct is present over	1/8 inch_sampling	will not be require	ed	
Relinguished by	Date/Time	Received by	Date/Time	1			,		
		Initia	al 1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Samp
Volume Purged (gallons)									
Time (military)		113							
pH (s.u)		4.68					1		
Specific Conductivity		88.2	2						1
)	18.5	5						
Water Temperature (°C	ar, slightly cloudy, clo	oudy) Clea	ar						
Water Temperature(°C Turbidity (subjective: clea		3.0					G 30	4	



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Date	November 2, 2011					Well#	MW-13				
Field Personnel		Ivan	A. Irizarry		_			- :6			
General weather	Conditions	\$	Sunny			Well Diameter	(D)	2	inch of	33.20	feet(ft)
Ambient Air Tem	perature (°F)		66			conversion fac	tor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Product			NA	ft	
		Quality Assurance	e			Total Well Dep			33.20	_ft	
W64-6615					0.000,0.000,0.000,0.000		ndwater (DGW)		25.69	_ft	1000
pH Sensor:	Oakton 356		nductivity Ser		35630-32		er Colum (LWC :	angeres Th		7.51	_ft
Serial No.	32497		rial No.	32	4976		me (LWC*C) =	7.51	X .17 =	1.28	gals
pH =4.0	4.0		andard _			3 Casing Volu	mes = 3 X	1.28	- =	3.84	gals
pH = 7.0	7.0		andard _					(Standard Purge	(Volume)		
pH = 7.0			andard _								
pH = 10.0		Sta	andard								
		Chain of Custody				Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A.	Irizoro/	11/2/11:1314	Shea	ds r	11/2/11:1314	*If from produce	t is present over	1/8 inch, sampling	will not be requi	rod	
	ished by	Date/Time	Receive		Date/Time	ii ii ee produc	t is present over	170 IIICII, Sairipiirig	y will flot be requi	eu.	
remiqui	isriou by	Date Time	TOOGIVE	u by	Daterrine						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ed (gallons)				1 100 100	Life voi.	0.0.00	I	I	1 000	T T
Time (military				1148							
pH (s.u)	,,			5.03							
Specific Cone	ductivity			126.0							
Water Tempe				18.3					21-		
Turbidity (sub	bjective: clear, s	slightly cloudy, clo	udy)	Clear							
Dissolved Ox	cygen (mg/l)			1.6							
			-					•		M2:	
Remarks:	Well sampled	at 1148 on Noven	nber 2, 20	<u>11.</u>							



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Date	November 2, 2011					Well#	MW-14				
Field Personnel		lva	an A. Irizarry					- 46			
General weather	Conditions	S.	Sunny			Well Diameter	(D)	2	inch of	32.00	feet(ft)
Ambient Air Tem	perature (°F)		66			conversion fac	tor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Product	Thickness		NA	ft	
		Quality Assurar	nce			Total Well De			32.00	_ft	
W64-6615					384000000000000000000000000000000000000		ndwater (DGW)		25.67	_ft	1000
pH Sensor:	Oakton 356		Conductivity Se		35630-32		er Colum (LWC :	2000 Sept.		6.33	_ft
Serial No.	32497		Serial No.	3.	24976		me (LWC*C) =	6.33	. X .17 =	1.08	gals
pH =4.0	4.0		Standard		-	3 Casing Volu	mes = 3 X	1.08	=	3.24	gals
pH = 7.0	7.0		Standard					(Standard Purge	Volume)		
pH = 7.0			Standard								
pH = 10.0		`	Standard								
		Chain of Custo	ody			Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A.	Irizoro	11/2/11:1314	She	oh	11/2/11:1314	*If froe produc	t is present over	1/8 inch, sampling	will not be requi	rod	
	ished by	Date/Time	Receiv	-	Date/Time	ii ii ce produc	t is present over	iro iricii, sariipiirig	will flot be requi	ou.	
romqu	, , , , , , , , , , , , , , , , , , ,	Date Fills	7100011		Date Time						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	jed (gallons)										
Time (militar				1045							
pH (s.u)				4.86							
Specific Con	ductivity			48.6							
Water Tempe	erature (°C)			16.6) 1					
Turbidity (sub	bjective: clear, s	lightly cloudy, c	loudy)	Clear							
Dissolved Ox	(ygen (mg/l)	3000		4.7							
	30 30 30				10194	25	12		339	ME:	17.00
	- Article Control of the Control of		ALTERNATION								
Remarks:	Well sampled	at 1045 on Nove	ember 2, 20	<u>011.</u>							



						Page_	16	of	19
Date November 2, 2011				Well#	MW-15				
Field Personnel	lvan A. Irizarry					•86			
General weather Conditions	Sunny		•	Well Diameter	(D)	2	inch of	33.50	feet(ft)
Ambient Air Temperature (°F)	66		-	conversion fac	ctor (C): 3.143*(I	0/2)^2			
20 20 20			- 0		for a 2 inch well	C = 0.163			
Facility Name: Former Ryder T	ruck Terminal Site ID #:	11	929		for a 4 inch well	C = 0.652			
ACCOUNTS OF THE ATTENDANCE TO SECURE S				*Free Product	Thickness		0.87	ft	
	Quality Assurance			Total Well De	pth (TWD)	_	33.50	ft	
				Depth to Grou	indwater (DGW)		26.39	ft	
pH Sensor:	Conductivity S	Sensor:		Length of Wat	ter Colum (LWC =	TWD-DGW)		NA	ft
Serial No.	Serial No.			1 Casing Volu	me (LWC*C) =	NA	X .17 =	NA	gals
pH =4.0	Standard			3 Casing Volu	mes = 3 X	NA	=	NA	gals
pH = 7.0	Standard	50 50				(Standard Purge	/olume)		-/-
pH = 7.0	Standard								
pH = 10.0	Standard								
<i>70</i> .	Ohain of Ourtain			Tetal Mahama	-£1M-1 D 1	D-f O		NIA	
	Chain of Custody			Total volume	of Water Purged	before Sampling		NA	gals
			-	*If free produc	et is present over	1/8 inch, sampling	will not be require	ed.	
Relinquished by	Date/Time Recei	ived by	Date/Time						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		122							
Time (military)									
pH (s.u)									
Specific Conductivity									
Water Temperature (°C))	
Turbidity (subjective: clear,	slightly cloudy, cloudy)					j		į.	
Dissolved Oxygen (mg/l)	1000								
Remarks: Well not sam	pled due to 0.87 feet of free	e-phase petro	leum product	detected.					



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Date	November 2, 2011					Well#	MW-16	- ~			
Field Personnel		Ivar	n A. Irizarry			***************************************					
General weather	Conditions	Na Na	Sunny		_	Well Diameter	(D)	2	inch of	34.40	feet(ft)
Ambient Air Tem	perature (°F)		66			conversion fac	ctor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Product			NA	ft	
		Quality Assuran	ce			Total Well De			34.40	ft	
					090003600000		ndwater (DGW)		25.86	ft	
pH Sensor:	Oakton 356	- T	onductivity Se		35630-32		er Colum (LWC			8.54	— ^{ft}
Serial No.	32497		erial No.	3.	24976		me (LWC*C) =	8.54	· X .17 =	1.45	gals
pH =4.0	4.0		tandard			3 Casing Volu	mes = 3 X	1.45	=	4.35	gals
pH = 7.0	7.0		tandard	-				(Standard Purge	Volume)		
pH = 7.0			tandard		-						
pH = 10.0		8	tandard .	9							
		Chain of Custoo	ty			Total Volume	of Water Purged	Before Sampling		NA	gals
han A	Irizarry	11/2/11:1314	She	ah.	11/2/11:1314	*If from produce	t in area ant aver	1/8 inch, sampling	ill mot be require		
	ished by	Date/Time	Receiv		Date/Time	ii ii ee produc	it is present over	i/o iricii, sampiirig	wiii flot be requii	cu.	
rtomiqu	ionou by	Date Time	1100011	lou by	Duto Timo						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ged (gallons)										
Time (militar	·			0950							
pH (s.u)	7.07			4.35							
Specific Con	ductivity			935.0							
Water Temp	erature (°C)			19.0							
Turbidity (sul	bjective: clear, s	slightly cloudy, clo	oudy)	Clear				į			
Dissolved Ox	kygen (mg/l)	NATIO STATE		3.1							
	Source Mills					98	100			0.0	
Remarks:	Well sampled	at 0950 on Nove	mber 2, 20	<u>011.</u>							



						Page	18	of	19
Date November 2, 2011				Well#	MW-17				
Field Personnel	lvan A. Irizarry					•\S			
General weather Conditions	Sunny		•	Well Diameter	r (D)	2	inch of	35.00	feet(ft)
Ambient Air Temperature (°F)	66		-	conversion fac	ctor (C): 3.143*(I	D/2)^2	** ***********************************	700-0100	
20 20 20			• **		for a 2 inch well	C = 0.163			
Facility Name: Former Ryder Tr	ruck Terminal Site ID #:	11	929		for a 4 inch well	C = 0.652			
Section (Section of All Schools Colony Col				*Free Product	Thickness		1.65	ft	
	Quality Assurance			Total Well De	pth (TWD)		35.00	ft	
				Depth to Grou	indwater (DGW)		28.10	ft	
pH Sensor:	Conductivity S	ensor:		Length of Wa	ter Colum (LWC =	= TWD-DGW)		NA	ft
Serial No.	Serial No.			1 Casing Volu	ime (LWC*C) =	NA	X .17 =	NA	gals
pH =4.0	Standard			3 Casing Volu	imes = 3 X	NA	=	NA	gals
pH = 7.0	Standard					(Standard Purge	Volume)		-70
pH = 7.0	Standard								
pH = 10.0	Standard								
~	Chain of Custody			Total Volume	of Water Purged	Refore Sampling		NA	gals
	Chair or Custody				3.73	67. 6	· ·		^{gais}
				*If free produc	ct is present over	1/8 inch, sampling	will not be require	ed.	
Relinquished by	Date/Time Recei	ved by	Date/Time						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)									
Time (military)									
pH (s.u)									
Specific Conductivity				-					
Water Temperature (°C)									
Turbidity (subjective: clear, s	slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)			<u></u>						
Remarks: Well not samp	oled due to 1.65 feet of free	-phase petro	leum product	present.					
				/6					



						Page	19	of	19
Date November 2, 2011				Well#	MW-18				
Field Personnel	lvan A. Irizarry					- .:			
General weather Conditions	Sunny		-0	Well Diameter	r (D)	2	inch of	35.60	feet(ft)
Ambient Air Temperature (°F)	66		_	conversion fac	ctor (C): 3.143*(I	D/2)^2	the season of th		
35 25 25			-		for a 2 inch well	C = 0.163			
Facility Name: Former Ryder T	ruck Terminal Site ID #:	11	1929		for a 4 inch well	C = 0.652			
				*Free Product	Thickness		0.56	ft	
	Quality Assurance			Total Well De	pth (TWD)		35.60	ft	
				Depth to Grou	indwater (DGW)		27.26	ft	
pH Sensor:	Conductivity S	ensor:	-	Length of Wa	ter Colum (LWC :	= TWD-DGW)		NA	ft
Serial No.	Serial No.				me (LWC*C) =	NA	X .17 =	NA	gals
pH =4.0	Standard			3 Casing Volu	mes = 3 X	NA	= .	NA	gals
pH = 7.0	Standard	10 21	-			(Standard Purge	Volume)		
pH = 7.0	Standard								
pH = 10.0	Standard								
	Chain of Custody			Total Volume	of Water Purged	Before Sampling		NA	gals
	<u> </u>				1753	67. 6			
- control control and a control control		70.0 		*If free produc	t is present over	1/8 inch, sampling	will not be require	ed.	
Relinquished by	Date/Time Recei	ved by	Date/Time						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)			T	Liid Voii	1	T T	01.1 70	1 000	Т
Time (military)									
pH (s.u)									
Specific Conductivity			1						
Water Temperature (°C)				1				1	
Turbidity (subjective: clear,	slightly cloudy, cloudy)	-		-					
Dissolved Oxygen (mg/l)	0 / //		1						
	oled due to 0.56 feet of free	e-phase petro	oleum product	present.					

APPENDIX B LABORATORY RESULT DATA SHEETS

Report of Analysis

Bunnell-Lammons Engineering, Inc.

6004 Ponders Court Greenville, SC 29615 Attention: Trevor Benton

Project Name: Former Ryder Terminal

Project Number:1010-17

Lot Number: MK02081

Date Completed: 11/10/2011

Lucas Odom
Project Manager



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The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.



SC DHEC No: 32010

NELAC No: E87653

NC DENR No: 329

Case Narrative Bunnell-Lammons Engineering, Inc.

Lot Number: MK02081

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

Shealy is not NELAC certified for Phosphorus by 365.1 but is certified in SC and NC.

Shealy is not NELAC certified for VPH, but is certified for VPH in NC.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

EDB by Microextraction

The results associated with samples -006, -012, and -013 have a P qualifier for EDB because the relative percent difference (RPD) between the two dissimilar phase GC columns exceeds 40%. In accordance with Section 7.10.4 of SW-846 method 8000B, the higher of the two results is reported. Due to the disparity of the two results, it is likely that the reported result is biased high, or may be a false positive.

Sample Summary Bunnell-Lammons Engineering, Inc.

Lot Number: MK02081

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	11/02/2011 1100	11/02/2011
002	MW-2	Aqueous	11/02/2011 1108	11/02/2011
003	MW-2D	Aqueous	11/02/2011 1218	11/02/2011
004	MW-5	Aqueous	11/02/2011 1118	11/02/2011
005	MW-9	Aqueous	11/02/2011 1128	11/02/2011
006	MW-7	Aqueous	11/02/2011 0900	11/02/2011
007	MW-8	Aqueous	11/02/2011 0849	11/02/2011
800	MW-10	Aqueous	11/02/2011 0936	11/02/2011
009	MW-11	Aqueous	11/02/2011 0915	11/02/2011
010	MW-12	Aqueous	11/02/2011 1138	11/02/2011
011	MW-13	Aqueous	11/02/2011 1148	11/02/2011
012	MW-14	Aqueous	11/02/2011 1045	11/02/2011
013	MW-14 (DUP)	Aqueous	11/02/2011 1047	11/02/2011
014	MW-16	Aqueous	11/02/2011 0950	11/02/2011
015	FIELD BLANK	Aqueous	11/02/2011 0840	11/02/2011
016	TRIP BLANK	Aqueous	11/02/2011	11/02/2011

(16 samples)

Executive Summary

Bunnell-Lammons Engineering, Inc.

Lot Number: MK02081

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-2	Aqueous	Benzene	8260B	35		ug/L	7
002	MW-2	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.59	J	ug/L	7
002	MW-2	Aqueous	Naphthalene	8260B	110		ug/L	7
002	MW-2	Aqueous	Xylenes (total)	8260B	16		ug/L	7
003	MW-2D	Aqueous	Benzene	8260B	2.9	J	ug/L	9
003	MW-2D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.68	J	ug/L	9
003	MW-2D	Aqueous	Naphthalene	8260B	3.2	J	ug/L	9
004	MW-5	Aqueous	Benzene	8260B	0.32	J	ug/L	11
004	MW-5	Aqueous	Ethylbenzene	8260B	2.4	J	ug/L	11
004	MW-5	Aqueous	Toluene	8260B	2.3	J	ug/L	11
004	MW-5	Aqueous	Xylenes (total)	8260B	3.6	J	ug/L	11
006	MW-7	Aqueous	Benzene	8260B	0.22	J	ug/L	15
006	MW-7	Aqueous	1,2-Dibromoethane (EDB)	8011	0.023	Р	ug/L	16
010	MW-12	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	18		ug/L	23
010	MW-12	Aqueous	Ethanol	8260B	46	J	ug/L	23
010	MW-12	Aqueous	tert-Amyl methyl ether (TAME)	8260B	0.67	J	ug/L	23
011	MW-13	Aqueous	Benzene	8260B	34		ug/L	25
011	MW-13	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	1.7	J	ug/L	25
011	MW-13	Aqueous	Naphthalene	8260B	130		ug/L	25
011	MW-13	Aqueous	Xylenes (total)	8260B	82		ug/L	25
011	MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	9.1	J	ug/L	25
011	MW-13	Aqueous	tert-butyl alcohol (TBA)	8260B	11	J	ug/L	25
011	MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.30		ug/L	26
012	MW-14	Aqueous	Benzene	8260B	36		ug/L	27
012	MW-14	Aqueous	Ethylbenzene	8260B	65		ug/L	27
012	MW-14	Aqueous	Naphthalene	8260B	29		ug/L	27
012	MW-14	Aqueous	Toluene	8260B	2.0	J	ug/L	27
012	MW-14	Aqueous	Xylenes (total)	8260B	4.3	J	ug/L	27
012	MW-14	Aqueous	tert-butyl alcohol (TBA)	8260B	22		ug/L	27
012	MW-14	Aqueous	1,2-Dibromoethane (EDB)	8011	0.013	JP	ug/L	28
013	MW-14 (DUP)	Aqueous	Benzene	8260B	200		ug/L	29
013	MW-14 (DUP)	Aqueous	Ethylbenzene	8260B	510		ug/L	29
013	MW-14 (DUP)	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.53	J	ug/L	29
013	MW-14 (DUP)	Aqueous	Naphthalene	8260B	140		ug/L	29
013	MW-14 (DUP)	Aqueous	Toluene	8260B	12		ug/L	29
013	MW-14 (DUP)	Aqueous	Xylenes (total)	8260B	40		ug/L	29
013	MW-14 (DUP)	Aqueous	tert-Amyl alcohol (TAA)	8260B	72		ug/L	29
013	MW-14 (DUP)	Aqueous	tert-butyl alcohol (TBA)	8260B	21		ug/L	29
013	MW-14 (DUP)	Aqueous	1,2-Dibromoethane (EDB)	8011	0.031	Р	ug/L	30
016	TRIP BLANK	Aqueous	Benzene	8260B	0.20	J	ug/L	35

(40 detections)

Description: MW-1

Date Sampled:11/02/2011 1100
Date Received:11/02/2011

Laboratory ID: MK02081-001

Matrix: Aqueous

 volati	le Orgai	nic Com	pounds	by GC/MS	

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis I 11/05/2011		Prep Da	ate	Batch 71160			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Did	chloroethane		1	07-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbe	enzene		1	00-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl	tertiary butyl ether	(MTBE)	16	34-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphth	nalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluen	е		1	08-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	s (total)		13	30-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrog	jate	Q	Run 1 % Recove	Accepta ery Limit							
1,2-Dic	:hloroethane-d4		102	70-1	30						
Bromo	fluorobenzene		98	70-1	30						
Toluen	e-d8		101	70-1	30						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/2011	•	Prep Da	ite	Batch 71160			
				CAS	Analytical						
Param	eter			Number	Method	Result	Q I	PQL	MDL	Units	Run
Diisopr	opyl ether (IPE)		1	08-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		6	24-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-te	ert-butyl ether (ETBE)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TAN	1E)	9	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-bul	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	62-75-4	8260B	ND		5.0	1.0	ug/L	. 1
Surrog	jate	Q	Run 1 % Recov								
Bromo	fluorobenzene		98	70-1	30						
1,2-Dic	hloroethane-d4		102	70-1	30						
Toluen	e-d8		101	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis D 11/09/2011		Prep Da 11/04/201		Batch 71161			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Page: 5 of 36

Description: MW-1

Date Sampled:11/02/2011 1100
Date Received:11/02/2011

Laboratory ID: MK02081-001

Matrix: Aqueous

EDB & DBCP by Microextraction

					~,							
Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 11/09/2011		nalyst PMS	Prep Da 11/04/201		Batch 5 71161			
Paran	neter			CAS Number	Analyt Meth		Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)			106-93-4	8	011	ND		0.020	0.0061	ug/L	1
Surro	gate	Q	Run ′ % Recov									
1,1,1,2	2-Tetrachloroethane		123	57-1	37							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" * = Reportable result (only when report all runs)

Description: MW-2

Date Sampled:11/02/2011 1108 Date Received: 11/02/2011

Laboratory ID: MK02081-002

Matrix: Aqueous

		Vo	latile O	rganic	Compound	s by GC	C/MS				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1		Date Analyst			Batch 71160			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	35		5.0	0.20	ug/L	1
1,2-Di	chloroethane		•	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylb	enzene		•	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methy	l tertiary butyl ethe	er (MTBE)	10	634-04-4	8260B	0.59	J	5.0	0.40	ug/L	1
Napht	halene			91-20-3	8260B	110		5.0	1.7	ug/L	1
Toluer	e		•	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	es (total)		1:	330-20-7	8260B	16		5.0	1.7	ug/L	1
Surro	gate	Q	Run 1 % Recov							_	
1,2-Did	chloroethane-d4		98	70-1	30						
Bromo	fluorobenzene		101	70-1	30						
Toluen	e-d8		100	70-1	30						

Volatile	Organic	Compounds	by	GC/MS
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Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/2011		Prep Da	ate	Batch 71160		-	
D				CAS	Analytical			-			
Param	eter			Number	Method	Result	Q	PQL	MDL	Units	Run
Diisopi	ropyl ether (IPE)		•	108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		6	824-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-to	ert-butyl ether (ETBI	≣)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TAI	ME)	9	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	62-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	jate	Q	Run 1 % Recov								
Bromo	fluorobenzene		101	70-1	30						
1,2-Dic	hloroethane-d4		98	70-1	30						
Toluen	e-d8		100	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Da 11/09/2011 0		Prep D: 11/04/20	Batch 71161			
Param	otor			CAS Number	Analytical Method	Result	 PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and > MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-2

Date Sampled:11/02/2011 1108
Date Received:11/02/2011

Laboratory ID: MK02081-002

Matrix: Aqueous

EDB & DBCP by Microextraction

 Run
 Prep Method
 Analytical Method
 Dilution
 Analysis Date
 Analyst
 Prep Date
 Batch

 1
 8011
 1
 11/09/2011 0829
 PMS
 11/04/2011 1716
 71161

Parameter	N	CAS umber	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	10	6-93-4	8011	ND		0.019	0.0060	ug/L	1
Surrogate	Run 1 Q % Recove	Accept y Lim							
1,1,1,2-Tetrachloroethane	115	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-2D

Date Sampled:11/02/2011 1218
Date Received:11/02/2011

Laboratory ID: MK02081-003

Matrix: Aqueous

Volatile	Organic	Comp	ounds	by ⁽	GC/MS

Run 1	Prep Method 5030B	Analytical Mo 8	ethod 260B	Dilution 1	Analysis 11/05/20		Analyst JJG	Prep Da	ate	Batch 71160			
Param	eter				CAS Number		llytical ethod	Result	Q	PQL	MDL	Units	Run
Benze	ne				71-43-2		8260B	2.9	J	5.0	0.20	ug/L	1
1,2-Dic	chloroethane			1	07-06-2		8260B	ND		5.0	0.30	ug/L	1
Ethylbe	enzene			1	00-41-4		8260B	ND		5.0	1.7	ug/L	1
Methy	l tertiary butyl eth	er (MTBE)		16	34-04-4		8260B	0.68	J	5.0	0.40	ug/L	1
Naphtl	halene				91-20-3		8260B	3.2	J	5.0	1.7	ug/L	1
Toluen	е			1	08-88-3		8260B	ND		5.0	1.7	ug/L	1
Xylene	s (total)			13	30-20-7		8260B	ND		5.0	1.7	ug/L	1
Surrog	jate		Q	Run 1 % Recove	Accep ery Lim								
1,2-Dic	hloroethane-d4			99	70-	130						,	1
Bromo	fluorobenzene			101	70-	130							
Toluen	e-d8			97	70-	130							

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/201	•	t Prep Da	ate	Batch 71160			
Param	ieter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopi	ropyl ether (IPE)			108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	methyl-1-butanol			624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-te	ert-butyl ether (ETBE)			637-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TAME	Ξ)		994-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		•	762-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	gate	Q	Run ′ % Recov								
Bromo	fluorobenzene		101	70-1	30						
1,2-Dic	chloroethane-d4		99	70-1	30						
Toluen	e-d8		97	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Da 11/09/2011 (Prep Da 11/04/201		Batch 71161			
Param	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

recording to date of different

Description: MW-2D

Date Sampled:11/02/2011 1218 Date Received: 11/02/2011

Laboratory ID: MK02081-003

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011		nalyst PMS	Prep Da 11/04/201		Batch 71161			
Paran	neter			CAS Number	Analyt Meth		Result	Q	PQL	MDL	Units	Run
1,2-Di	oromoethane (EDB)			106-93-4	8	011	ND		0.019	0.0059	ug/L	1
Surro	gate	Q	Run 1 % Recov									
1,1,1,2	?-Tetrachloroethane		105	57-1:	37				-			

Description: MW-5

Date Sampled:11/02/2011 1118 Date Received: 11/02/2011

Laboratory ID: MK02081-004

Matrix: Aqueous

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/201		Prep D	ate	Batch 71160			
Daram	otov			CAS	Analytical						
Param				Number	Method	Result	Q	PQL	MDL	Units	Run
Benze				71-43-2	8260B	0.32	J	5.0	0.20	ug/L	1
	chloroethane			07-06-2	8260B	ND		5.0	0.30	ug/L	1
-	enzene			00-41-4	8260B	2.4	J	5.0	1.7	ug/L	1
	tertiary butyl ether ((MTBE)		34-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphth				91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluen				08-88-3	8260B	2.3	J	5.0	1.7	ug/L	1
Xylene	es (total)		13	30-20-7	8260B	3.6	J	5.0	1.7	ug/L	1
Surrog	jate	Q	Run 1 % Recove	Accept ery Limi							
1,2-Dic	hloroethane-d4		104	70-1	30						
Bromof	fluorobenzene		102	70-1	30						
Toluen	e-d8		100	70-1	30						
Run 1	Prep Method 5030B	Vol Analytical Method 8260B	Dilution	ganic (Analysis 11/05/201		Prep Da		Batch 71160			57 A
1	5030B	Analytical Method	Dilution	Analysis	Date Analyst						
1 Parame	5030B	Analytical Method	Dilution 1	Analysis 11/05/2011	Date Analyst 1 0352 JJG				MDL	Units	Run
1 Parame Diisopre	5030B eter opyl ether (IPE)	Analytical Method	Dilution 1	Analysis 11/05/2011 CAS	Date Analyst 1 0352 JJG Analytical	Prep Da	ate	71160	MDL 0.40	Units ug/L	Run 1
1 Parame Diisopre Ethanol		Analytical Method	Dilution 1	Analysis 11/05/2017 CAS lumber	Date Analyst 1 0352 JJG Analytical Method	Prep Da	ate	71160 PQL			
Parame Diisopro Ethanol 3,3-Dim	eter opyl ether (IPE) I nethyl-1-butanol	Analytical Method 8260B	Dilution 1 N	Analysis 11/05/2012 CAS lumber 08-20-3	Date Analyst 1 0352 JJG Analytical Method 8260B	Prep Da	ate	71160 PQL 5.0	0.40	ug/L	1
Parame Diisopro Ethanol 3,3-Dim Ethyl-te		Analytical Method 8260B	Dilution 1	Analysis 11/05/2011 CAS lumber 08-20-3 64-17-5 24-95-3 87-92-3	Date Analyst 1 0352 JJG Analytical Method 8260B 8260B 8260B 8260B	Prep Da Result ND ND	ate	71160 PQL 5.0 100	0.40 33	ug/L ug/L	1
Paramo Diisopro Ethanol 3,3-Dim Ethyl-te		Analytical Method 8260B	Dilution 1	CAS lumber 08-20-3 64-17-5 24-95-3 37-92-3 75-85-4	Analyst 1 0352 JJG Analytical Method 8260B 8260B 8260B 8260B 8260B	Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20	0.40 33 1.0 0.20 6.7	ug/L ug/L ug/L	1 1 1
Parame Diisopro Ethanol 3,3-Dim Ethyl-te tert-Am		Analytical Method 8260B	Dilution 1 1 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Analysis 11/05/2011 CAS Jumber 08-20-3 64-17-5 24-95-3 37-92-3 75-85-4 94-05-8	Analyst 1 0352 JJG Analytical Method 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B 8260B	Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10	0.40 33 1.0 0.20 6.7 0.20	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1
Parame Diisopro Ethanol 3,3-Dim Ethyl-te tert-Am tert-Am	eter opyl ether (IPE) I nethyl-1-butanol ort-butyl ether (ETBE yl alcohol (TAA) yl methyl ether (TAN)	Analytical Method 8260B	Dilution 1	Analysis 11/05/201 CAS Jumber 08-20-3 64-17-5 24-95-3 37-92-3 75-85-4 94-05-8 75-65-0	Analyst 1 0352 JJG Analytical Method 8260B	Prep Da Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10 20 10 20	0.40 33 1.0 0.20 6.7 0.20 6.7	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1 1 1
Paramo Diisopro Ethanol 3,3-Dim Ethyl-te tert-Am tert-Am tert-buty		Analytical Method 8260B	Dilution 1	CAS Jumber 08-20-3 64-17-5 24-95-3 87-92-3 75-85-4 94-05-8 75-65-0 62-75-4	Analyst 1 0352 JJG Analytical Method 8260B	Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10	0.40 33 1.0 0.20 6.7 0.20	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1 1 1
Paramo Diisopro Ethanol 3,3-Dim Ethyl-te tert-Am tert-Am tert-But tert-But	eter opyl ether (IPE) I nethyl-1-butanol ort-butyl ether (ETBE yl alcohol (TAA) yl methyl ether (TAN yl alcohol (TBA) yl formate (TBF)	Analytical Method 8260B	Dilution 1	CAS Jumber 08-20-3 64-17-5 24-95-3 75-85-4 94-05-8 75-65-0 62-75-4 Accept	Analyst 1 0352 JJG Analytical Method 8260B	Prep Da Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10 20 10 20	0.40 33 1.0 0.20 6.7 0.20 6.7	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1 1 1
Paramo Diisopro Ethanol 3,3-Dirr Ethyl-te tert-Am tert-Am tert-but tert-But tert-But	eter opyl ether (IPE) I nethyl-1-butanol ert-butyl ether (ETBE yl alcohol (TAA) yl methyl ether (TAI) yl formate (TBF) ate luorobenzene	Analytical Method 8260B	Dilution 1 1 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 6 7	CAS Jumber 08-20-3 64-17-5 24-95-3 75-85-4 94-05-8 75-65-0 62-75-4 Accepts	Analyst 1 0352 JJG Analytical Method 8260B	Prep Da Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10 20 10 20	0.40 33 1.0 0.20 6.7 0.20 6.7	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1 1 1
Parame Diisopre Ethanol 3,3-Dirr Ethyl-te tert-Am tert-but tert-But Surrog Bromofl 1,2-Dich	eter opyl ether (IPE) I nethyl-1-butanol ert-butyl ether (ETBE yl alcohol (TAA) yl methyl ether (TAN yl alcohol (TBA) yl formate (TBF) ate luorobenzene hloroethane-d4	Analytical Method 8260B	Dilution 1 10 6 6 6 6 6 6 6 6 6 7 7 6 8 Run 1 % Recover	CAS Jumber 08-20-3 64-17-5 24-95-3 87-92-3 75-85-4 94-05-8 75-65-0 62-75-4 Acceptory	Analyst 1 0352	Prep Da Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10 20 10 20	0.40 33 1.0 0.20 6.7 0.20 6.7	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1 1 1
Paramo Diisopro Ethanol 3,3-Dirr Ethyl-te tert-Am tert-Am tert-but tert-But Surrog Bromofl	eter opyl ether (IPE) I nethyl-1-butanol ert-butyl ether (ETBE yl alcohol (TAA) yl methyl ether (TAN yl alcohol (TBA) yl formate (TBF) ate luorobenzene hloroethane-d4	Analytical Method 8260B	Dilution 1 10 6 6 6 6 6 6 6 6 6 7 7 6 Run 1 % Recover 102	CAS Jumber 08-20-3 64-17-5 24-95-3 37-92-3 75-85-4 94-05-8 75-65-0 62-75-4 Acceptory Limi 70-1	Date	Prep Da Result ND ND ND ND ND ND ND ND ND N	ate	71160 PQL 5.0 100 20 1.0 20 10 20 10 20	0.40 33 1.0 0.20 6.7 0.20 6.7	ug/L ug/L ug/L ug/L ug/L ug/L	1 1 1 1 1

Volatile Organic Compounds by GC/MS

PQL = Practical quantitation

Parameter

Q

Units

8011

11/09/2011 0912

CAS

Number

PMS

Analytical

Method

Result

11/04/2011 1716

71161

PQL

MDL

Run

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and > MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

P = The RPD between two GC columns exceeds 40% * = Reportable result (only when report all runs)

N = Recovery is out of criteria

Description: MW-5

Date Sampled:11/02/2011 1118 Date Received: 11/02/2011

Laboratory ID: MK02081-004

Matrix: Aqueous

EDB & DBCP by Microextraction

					~ ,							
Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011		Analyst PMS	Prep Da 11/04/201		Batch 71161			
Param	eter			CAS Number	Analy:		Result	Q	PQL	MDL	Units	Run
1,2-Dil	promoethane (EDB)			106-93-4	8	011	ND		0.020	0.0061	ug/L	1
Surro	gate	Q	Run 1 % Recov									
1,1,1,2	-Tetrachloroethane		119	57-1	37							. :

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-9

Date Sampled:11/02/2011 1128 Date Received: 11/02/2011

Laboratory ID: MK02081-005

Matrix: Aqueous

		Vo	latile O	rganic (Compound	s by GC	/MS				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis I 11/05/2011	•	Prep D	ate	Batch 71160			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzei	ne			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Did	chloroethane		•	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbe	enzene		•	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl	tertiary butyl ether	(MTBE)	10	634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphth	nalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluen	e		•	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	s (total)		1:	330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrog	jate	Q	Run 1 % Recov								
1,2-Dic	hloroethane-d4		101	70-1	30						
Bromo	fluorobenzene		98	70-1	30						
Toluen	e-d8		101	70-1	30						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Me 82	thod 60B		Analysis I 1/05/2011	,	Prep Da	ite	Batch 71160			
D	-1				CAS	Analytical		_				
Param				N	umber	Method	Result	Q	PQL.	MDL	Units	Run
Diisopr	opyl ether (IPE)			10	8-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol .			ϵ	4-17-5	8260B	ND		100	33	ug/L	1
3,3-Din	nethyl-1-butanol			62	4-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-te	ert-butyl ether (ETBI	≣)		63	7-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Am	nyl alcohol (TAA)			7	5-85-4	8260B	ND		20	6.7	ug/L	1
tert-Am	nyl methyl ether (TAI	ME)		99	4-05-8	8260B	ND		10	0.20	ug/L	1
tert-but	yl alcohol (TBA)			7	5-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)			76	2-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	jate		Q	Run 1 % Recove	Accepta ry Limit							
Bromot	fluorobenzene			98	70-1	30						
1,2-Dic	hloroethane-d4			101	70-1	30						
Toluen	e-d8			101	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 101	•	Prep D: 11/04/20	Batch 71161			
Parame				CAS A	nalytical	Result	 PQL	MDL	Units	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Description: MW-9

Date Sampled:11/02/2011 1128 Date Received: 11/02/2011

Laboratory ID: MK02081-005

Matrix: Aqueous

EDB & DBCP by Microextraction

					·,						
Run Prep Method 1 8011		Analytical Method 8011	Dilution 1			NS Prep Date MS 11/04/2011 1716		Batch 71161			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dil	promoethane (EDB)			106-93-4	8011	ND		0.019	0.0060	ug/L	1
Surro	gate	Q	Run ' % Recov								
1,1,1,2	-Tetrachloroethane		115	57-1	37			******			

Description: MW-7

Date Sampled:11/02/2011 0900 Date Received: 11/02/2011

Laboratory ID: MK02081-006

Matrix: Aqueous

		Vo	latile C	rganic (Compound	s by GC	/MS				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/2011	•	Prep D	ate	Batch 71160			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	0.22	J	5.0	0.20	ug/L	1
1,2-Did	chloroethane			107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylb	enzene			100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl	tertiary butyl ether	(MTBE)	1	634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphti	nalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluer	e			108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	s (total)		1	330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surro	jate	Q	Run % Reco								
1,2-Dio	chloroethane-d4		96	70-1	30						
Bromo	fluorobenzene		98	70-1	30						
Toluen	e-d8		99	70-1	30						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B		Analysis D 11/05/2011	•	Prep Da	ite	Batch 71160			
Param	otov			CAS	Analytical	n					
				umber	Method	Result	Q	PQL	MDL	Units	Run
Diisopi	ropyl ether (IPE)		10	8-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol		6	4-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		62	4-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-te	ert-butyl ether (ETBE	Ξ)	63	7-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)		7	5-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TAN	ΛE)	99	4-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)		7	5-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		76	2-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	jate	Q	Run 1 % Recove	Acceptai ry Limits							
Bromö	fluorobenzene		98	70-13	0						······
1,2-Dic	hloroethane-d4	•	96	70-13	0						
Toluen	e-d8		99	70-13	0						

EDB	&	DBCP	by	Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 103	Analyst 8 PMS	Prep Da 11/04/201		Batch 71161			
Parame	eter				nalytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Description: MW-7

Date Sampled:11/02/2011 0900 Date Received: 11/02/2011

Laboratory ID: MK02081-006

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 11/09/2011		Analyst PMS	Prep D 11/04/20		Batch 6 71161			
Paran	neter			CAS Number		lytical ethod	Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)		1	06-93-4		8011	0.023	Р	0.020	0.0061	ug/L	1
Surro	gate	Q	Run 1 % Recov									
1,1,1,2	2-Tetrachloroethane		126	57-1	37			*****		······································		·····

PQL = Practical quantitation limit

B = Detected in the method blank

J = Estimated result < PQL and > MDL

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

P = The RPD between two GC columns exceeds 40%

Description: MW-8

Date Sampled:11/02/2011 0849 Date Received: 11/02/2011

Laboratory ID: MK02081-007

Matrix: Aqueous

		Vo	olatile O	rganic (Compound	s by GC	:/MS				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/201	•	Prep Da	ate	Batch 71160			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Did	chloroethane		1	07-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbe	enzene		1	00-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl	tertiary butyl ether	(MTBE)	16	34-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphtł	nalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluen	е		1	08-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	s (total)		13	330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrog	jate	Q	Run 1 % Recov								
1,2-Dic	chloroethane-d4		100	70-1	30						
Bromo	fluorobenzene		100	70-1	30						
Toluen	e-d8		101	70-1	30						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/05/201	•	Prep Da	ate	Batch 71160			
Param	neter		ŀ	CAS lumber	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisop	ropyl ether (IPE)		10	08-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethan	ol		(64-17-5	8260B	ND		100	33	ug/L	1
3,3-Di	methyl-1-butanol		6:	24-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-t	ert-butyl ether (ETBI	≣)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TA	ME)	99	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	ityl formate (TBF)		70	82-75-4	8260B	ND		5.0	1.0	ug/L	1
Surro	gate	Q	Run 1 % Recove	Accept ry Limi							
Bromo	fluorobenzene		100	70-1	30			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
1,2-Di	chloroethane-d4		100	70-1	30						
Toluer	ie-d8		101	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 1059	Analyst PMS	Prep Da 11/04/201		Batch 71161			
Parame	eter				alytical lethod	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

* = Reportable result (only when report all runs)

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Description: MW-8

Date Sampled:11/02/2011 0849 Date Received: 11/02/2011

Laboratory ID: MK02081-007

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011		Analyst PMS	Prep Da 11/04/201		Batch 71161			
Paran	neter			CAS Number	Analy Met	ytical thod	Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)			106-93-4		8011	ND		0.019	0.0060	ug/L	1
Surro	gate	Q	Run 1 % Recov									
1,1,1,2	2-Tetrachloroethane		107	57-1	37			***************************************				

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

Description: MW-10

Date Sampled:11/02/2011 0936
Date Received:11/02/2011

Laboratory ID: MK02081-008

Matrix: Aqueous

V	olatile/	Organic	Compou	ınds by	GC/MS

Run Prep Method Analytic 1 5030B	al Method 8260B	Dilution 1	Analysis 11/07/201	•	Prep Da	ite	Batch 71219			
Parameter		1	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Dichloroethane		1	07-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene		1	00-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl tertiary butyl ether (MTBE)		16	34-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluene		1	08-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)		13	30-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrogate	Q	Run 1 % Recove	Accept ery Limi							
1,2-Dichloroethane-d4		111	70-1	30						,
Bromofluorobenzene		102	70-1	30						
Toluene-d8		103	70-1	30						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201		Prep Da		Batch 71219	*		
Param	eter			CAS	Analytical	Decult		201	***		
				Number	Method	Result	Q F	PQL	MDL	Units	Run
•	ropyl ether (IPE)		1	08-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		ϵ	24-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-to	ert-butyl ether (ETBE)	ϵ	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TAM	IE)	9	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	62-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	gate	Q	Run 1 % Recov								
Bromo	fluorobenzene		102	70-1	30						, , , , , , , , , , , , , , , , , , , ,
1,2-Dic	chloroethane-d4		111	70-1	30						
Toluen	e-d8		103	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 112	•	Prep D 11/04/20		Batch 71161			
Davam	-4			CAS A	nalytical	_					
Param	eter			Number	Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Description: MW-10

Date Sampled:11/02/2011 0936 Date Received: 11/02/2011

Laboratory ID: MK02081-008

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 11/09/2011		Analyst PMS	Prep Da 11/04/201		Batch 71161			
Paran	neter			CAS Number	Analy Met	ytical thod	Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)		,	106-93-4		8011	ND		0.020	0.0061	ug/L	1
Surro	gate	Q	Run 1 % Recov									

1,1,1,2-Tetrachloroethane

115 57-137

ND = Not detected at or above the MDL

Description: MW-11

Date Sampled:11/02/2011 0915 Date Received: 11/02/2011

Laboratory ID: MK02081-009

Matrix: Aqueous

		Vo	latile O	rganic (Compound	s by GC	/MS				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201	•	Prep Da	ate	Batch 71219			
Param	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Di	chloroethane		•	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylb	enzene		•	100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl	l tertiary butyl ether	(MTBE)	10	634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphti	halene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluer	ne		•	108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	es (total)		1:	330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surro	gate	Q	Run 1 % Recov								
1,2-Did	chloroethane-d4		114	70-1	30						1440
Bromo	fluorobenzene		102	70-1	30						
Toluen	ne-d8		103	70-1	30						

Volatile C	Organic	Compounds	by GC/MS
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Run 1	Prep Method 5030B	Analytical Method 8260E		Analysis Da 1/07/2011 1		Prep Da	te	Batch 71219		•••	
_				CAS	Analytical					*	
Param	eter		N	umber	Method	Result	Q	PQL	MDL	Units	Run
Diisopr	opyl ether (IPE)		10	8-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	l		6	4-17-5	8260B	ND		100	33	ug/L	1
3,3-Din	nethyl-1-butanol		62	4-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-te	ert-butyl ether (ETBE	Ξ)	63	7-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Am	ıyl alcohol (TAA)		7	5-85-4	8260B	ND		20	6.7	ug/L	1
tert-Am	yl methyl ether (TAI	ΛE)	99	4-05-8	8260B	ND		10	0.20	ug/L	1
tert-but	yl alcohol (TBA)		7	5-65 - 0	8260B	ND		20	6.7	ug/L	1
tert-Bul	iyl formate (TBF)		76	2-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	ate	G	un 1 ecover	Acceptano y Limits	ce						
Bromof	luorobenzene		102	70-130						***************************************	
1,2-Dic	hloroethane-d4		114	70-130							
Toluen	e-d8		103	70-130							

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Da 11/09/2011 1	•	Prep Da 11/04/201		Batch 71161			
Parame	otor			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and > MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

* = Reportable result (only when report all runs)

Description: MW-11

Date Sampled:11/02/2011 0915 Date Received: 11/02/2011

Laboratory ID: MK02081-009

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 11/09/2011		A nalyst PMS	Prep Da 11/04/201		Batch 71161			
Paran	neter			CAS Number	Analyt Meth		Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)		•	106-93-4	8	011	ND		0.020	0.0062	ug/L	1
Surro	gate	Q	Run 1 % Recov									

1,1,1,2-Tetrachloroethane

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Description: MW-12

Date Sampled:11/02/2011 1138 Date Received: 11/02/2011

Laboratory ID: MK02081-010

Matrix: Aqueous

		Vo	latile O	rganic (Compound	s by GC	/MS				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/2011		Prep Da	ite	Batch 71219		-	
Param	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Did	chloroethane			107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylb	enzene			100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methy	I tertiary butyl eth	er (MTBE)	1	634-04-4	8260B	18		5.0	0.40	ug/L	1
Naphth	nalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluen	ne			108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	es (total)		1	330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	% Recovery	Limits
1,2-Dichloroethane-d4		113	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis I 11/07/2011	•	t Prep D	ate	Batch 71219			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisopi	ropyl ether (IPE)			108-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethan	ol			64-17-5	8260B	46	J	100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		6	624-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-t	ert-butyl ether (ETBI	Ξ)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Ar	nyl methyl ether (T	AME)	9	994-05-8	8260B	0.67	J	10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	762-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	jate	Q	Run 1 % Recov								
Bromo	fluorobenzene		102	70-13	30					***************************************	
1,2-Dic	hloroethane-d4		113	70-13	30						
Toluen	e-d8		101	70-13	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 120		Prep Da 11/04/201		Batch 71161		. , , , , ,	
Param	eter			CAS A Number	nalytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W'

J = Estimated result < PQL and > MDL

P = The RPD between two GC columns exceeds 40% * = Reportable result (only when report all runs)

Description: MW-12

Date Sampled:11/02/2011 1138 Date Received: 11/02/2011

Laboratory ID: MK02081-010

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011		nalyst PMS	Prep Da 11/04/201		Batch 71161			
Paran	neter			CAS Number	Analyt Meth		Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)			106-93-4	8	011	ND		0.019	0.0060	ug/L	1
Surro	gate	Q	Run % Reco									
1,1,1,2	2-Tetrachloroethane		116	57-1	37							

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Description: MW-13

Date Sampled:11/02/2011 1148 Date Received: 11/02/2011

Laboratory ID: MK02081-011

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Met 820	hod 60B	Dilution 1		lysis Date 7/2011 111	•	Prep Da	ate	Batch 71219			
Param	eter				C Num		nalytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne				71-4	3-2	8260B	34		5.0	0.20	ug/L	1
1,2-Dic	chloroethane			1	07-0	6-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbe	enzene			1	00-4	1-4	8260B	ND		5.0	1.7	ug/L	1
Methy	l tertiary butyl eth	er (MTBE)		16	34-0	4-4	8260B	1.7	J	5.0	0.40	ug/L	1
Napht	halene				91-2	0-3	8260B	130		5.0	1.7	ug/L	1
Toluen	е			1	08-8	8-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	es (total)			13	30-2	0-7	8260B	82		5.0	1.7	ug/L	1
Surrog	jate		Q	Run 1 % Recov		cceptance Limits							
1,2-Dic	chloroethane-d4			119		70-130							
Bromo	fluorobenzene			109		70-130							
Toluen	e-d8			105		70-130							

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201	•	Prep Da	ate	Batch 71219			
Davas	-4			CAS	Analytical	n 1		DO 1			_
Param	erer		······	Number	Method	Result	Q	PQL	MDL	Units	Run
Diisop	ropyl ether (IPE)		1	08-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		6	24-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-t	ert-butyl ether (ETBI	Ξ)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-Aı	nyl alcohol (TAA)			75-85-4	8260B	9.1	J	20	6.7	ug/L	1
tert-An	nyl methyl ether (TA	ME)	9	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	ityl alcohol (TBA)			75-65-0	8260B	11	J	20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	62-75-4	8260B	ND		5.0	1.0	ug/L	1
Surro	jate	Q	Run 1 % Recov								
Bromo	fluorobenzene		109	70-1	30			·	·		
1,2-Did	chloroethane-d4		119	70-1	30						
Toluen	e-d8		105	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 122	•	Prep D: 11/04/20		Batch 71161			
				CAS A	nalytical						
Param	eter			Number	Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Description: MW-13

Date Sampled:11/02/2011 1148 Date Received: 11/02/2011

Laboratory ID: MK02081-011

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011		Analyst PMS	Prep Da 11/04/201		Batch 71161				
Paran	neter			CAS Number	,	ytical thod	Result	Q	PQL	MDL	Units	Run	•
1,2-Di	bromoethane (EDB)	•	106-93-4		8011	0.30		0.019	0.0060	ug/L	1	

Run 1 Acceptance Surrogate % Recovery Q Limits

1,1,1,2-Tetrachloroethane

124 57-137

Description: MW-14

Date Sampled:11/02/2011 1045
Date Received:11/02/2011

Laboratory ID: MK02081-012

Matrix: Aqueous

Volatile	Organic Com	pounds b	y GC/MS
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/08/2011 1937	ВМ		71301
2	5030B	8260B	1	11/08/2011 2250	JJG		71325

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	36		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	65		5.0	1.7	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	29		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	2.0	J	5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	4.3	J	5.0	1.7	ug/L	2

_	Run 1 Acceptance Run 2					
Surrogate	Q	% Recovery	Limits	Q	% Recovery	Limits
1,2-Dichloroethane-d4		93	70-130		110	70-130
Bromofluorobenzene		99	70-130		103	70-130
Toluene-d8		95	70-130		105	70-130

Volatile Organic Compounds by GC/MS

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	
1	5030B	8260B	1	11/08/2011 1937	ВМ	-	71301	

	CAS	Analytical					
Parameter	Number	Method	Result	Q PQL	MDL	Units	Run
Diisopropyl ether (IPE)	108-20-3	8260B	ND	5.0	0.40	ug/L	1
Ethanol	64-17-5	8260B	ND	100	33	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.20	ug/L	1
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.20	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	22	20	6.7	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	1.0	ug/L	1

Surrogate	Q	% Recovery	Limits
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		95	70-130

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-14

Date Sampled:11/02/2011 1045 Date Received: 11/02/2011

Laboratory ID: MK02081-012

Matrix: Aqueous

EDB & DBCP by Microextra	ction
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Run 2	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/10/2011		Prep D 11/10/20		Batch 5 71440			
Paran	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)			106-93-4	8011	0.013	JP	0.020	0.0061	ug/L	2
Surro	gate	٥	Run 2								

1,1,1,2-Tetrachloroethane

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Description: MW-14 (DUP)

Date Sampled:11/02/2011 1047 Date Received: 11/02/2011

Bromofluorobenzene

Toluene-d8

1,2-Dichloroethane-d4

Laboratory ID: MK02081-013

Matrix: Aqueous

Volatile Organic Compounds by GO	C/MS	1S	
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	11/08/2011 1958	ВМ		71301
2	5030B	8260B	5	11/09/2011 0000	JJG		71325

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene	71-43-2	8260B	200		5.0	0.20	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	510		25	8.5	ug/L	2
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	0.53	J	5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	140		5.0	1.7	ug/L	1
Toluene	108-88-3	8260B	12		5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	40		5.0	1.7	ug/L	1

		Run 1 A	cceptance	Run 2 A	cceptance
Surrogate	Q	% Recovery	Limits C	% Recovery	Limits
1,2-Dichloroethane-d4		93	70-130	96	70-130
Bromofluorobenzene		102	70-130	98	70-130
Toluene-d8		97	70-130	100	70-130

102

93

97

Volatile Organic Compounds by GC/MS

Run Prep Method A 1 5030B	nalytical Method 8260B	Dilution Analysis 1 11/08/20	•	Prep Da		tch 301		
Parameter		CAS Number	Analytical Method	Result	Q PQI	L MDL	Units	Run
Diisopropyl ether (IPE)		108-20-3	8260B	ND	5.	0 0.40	ug/L	1
Ethanol		64-17-5	8260B	ND	100	33	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	2	0 1.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.	0 0.20	ug/L	1
tert-Amyl alcohol (TAA)		75-85-4	8260B	72	2	0 6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0 0.20	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	21	2	0 6.7	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.	0 1.0	ug/L	1

70-130

70-130

70-130

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	H = Out of holding time
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%	N = Recovery is out of criteria
Where applicable, all soil sample analysis are re	eported on a dry weight basis unless flagged with a "W"	* = Reportable result (only when report all runs)	

Description: MW-14 (DUP)

Date Sampled: 11/02/2011 1047 Date Received: 11/02/2011

Laboratory ID: MK02081-013

Matrix: Aqueous

EDB & DBCP by Microextraction

Prep Method Run **Analytical Method** Dilution Analysis Date Prep Date Analyst Batch 1 8011 11/09/2011 1308 11/04/2011 1716 71161 8011 **PMS**

Parameter		CAS Number	Analytical Method	Result	Q	PQL	MDL.	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	0.031	Р	0.019	0.0060	ug/L	1
Surrogate	Q	Run 1 Accept % Recovery Limi							

1,1,1,2-Tetrachloroethane

132 57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Description: MW-16

Date Sampled:11/02/2011 0950 Date Received: 11/02/2011

Laboratory ID: MK02081-014

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B		nalysis Date /07/2011 0932	Analyst 2 BM	Prep Date	9 Bato 7122			
Param	neter		Nui		alytical Vethod	Result	Q PQL	MDL	Units	Run
Benze	ne		71-	-43-2	8260B	ND	5.0	0.20	ug/L	1
1,2-Dic	chloroethane		107-	-06-2	8260B	ND	5.0	0.30	ug/L	1
Ethylbe	enzene		100-	-41-4	8260B	ND	5.0	1.7	ug/L	1
Methyl	tertiary butyl ether	(MTBE)	1634	-04-4	8260B	ND	5.0	0.40	ug/L	1
Naphth	nalene		91-	-20-3	8260B	ND	5.0	1.7	ug/L	1
Toluen	ne		108-	-88-3	8260B	ND	5.0	1.7	ug/L	1
Xylene	es (total)		1330-	-20-7	8260B	ND	5.0	1.7	ug/L	1
Surrog	gate	Q	Run 1 % Recovery	Acceptance Limits						
1,2-Dio	chloroethane-d4		101	70-130						
Bromo	fluorobenzene		100	70-130						
Toluen	ne-d8		97	70-130						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201	•	Prep Da	ite	Batch 71223			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Diisop	ropyl ether (IPE)		1	08-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	methyl-1-butanol		6	24-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-t	ert-butyl ether (ETBI	≣)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-An	nyl methyl ether (TAI	ME)	9	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	62-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	gate	. Q	Run 1 % Recov								
Bromo	fluorobenzene		100	70-1	30						
1,2-Dic	chloroethane-d4		101	70-1	30						
Toluen	ie-d8		97	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 1330	•	Prep Da 11/04/201		Batch 71161			
Parame	eter				alytical Method	Result	Q	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and \ge MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

Description: MW-16

Date Sampled:11/02/2011 0950 Date Received: 11/02/2011

Laboratory ID: MK02081-014

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011		nalysis Date /09/2011 1330	Analyst PMS	Prep Da 11/04/201		Batch 5 71161			
Param	eter		Nui		alytical lethod	Result	Q	PQL	MDL	Units	Run
1,2-Dil	promoethane (EDB)		106-	93-4	8011	ND		0.019	0.0060	ug/L	1
Surro	nate	0	Run 1	Acceptance							

1,1,1,2-Tetrachloroethane

116 57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = \text{Estimated result} < \text{PQL and} \geq \text{MDL}$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: FIELD BLANK

Date Sampled:11/02/2011 0840 Date Received: 11/02/2011

Laboratory ID: MK02081-015

Matrix: Aqueous

	Volatile Org	ganic Compounds b	y GC/MS
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Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201	,	Prep Da	ate	Batch 71223			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ne			71-43-2	8260B	ND		5.0	0.20	ug/L	1
1,2-Di	chloroethane		1	07-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylb	enzene		1	00-41-4	8260B	ND		5.0	1.7	ug/L	1
Methyl	tertiary butyl ether	(MTBE)	16	34-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphtl	nalene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluer	ie		1	08-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	es (total)		13	30-20-7	8260B	ND		5.0	1.7	ug/L	1
Surro	gate	Q	Run 1 % Recove	Accept ery Limi							
1,2-Dic	chloroethane-d4		106	70-1	30						
Bromo	fluorobenzene		101	70-1	30						
Toluen	ie-d8		100	70-1	30						

Volatile Organic Compounds by GC/MS

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/2011	•	Prep Da	ate	Batch 71223			
Davam	-1			CAS	Analytical	- .,					_
Param	eter			Number	Method	Result	Q	PQL	MDL	Units	Run
Diisopr	opyl ether (IPE)		1	08-20-3	8260B	ND		5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND		100	33	ug/L	1
3,3-Dir	nethyl-1-butanol		6	24-95-3	8260B	ND		20	1.0	ug/L	1
Ethyl-te	ert-butyl ether (ETBE	Ξ)	6	37-92-3	8260B	ND		1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND		20	6.7	ug/L	1
tert-Am	nyl methyl ether (TAI	ΛE)	9	94-05-8	8260B	ND		10	0.20	ug/L	1
tert-but	lyl alcohol (TBA)			75-65-0	8260B	ND		20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		7	62-75-4	8260B	ND		5.0	1.0	ug/L	1
Surrog	jate	Q	Run 1 % Recove	Accept ery Limi							
Bromo	fluorobenzene		101	70-1	30						***************************************
1,2-Dic	hloroethane-d4		106	70-1	30						
Toluen	e-d8		100	70-1	30						

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 1352	Analyst PMS	Prep Da 11/04/201		Batch 71161			
Param	neter				alytical ethod	Result	0	PQL	MDL	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

^{* =} Reportable result (only when report all runs)

Description: FIELD BLANK Date Sampled:11/02/2011 0840 Date Received: 11/02/2011

Laboratory ID: MK02081-015

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011				Batch 71161			
Paran	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dil	bromoethane (EDB)		•	106-93-4	8011	ND		0.019	0.0059	ug/L	1
Surro	gate	Q	Run 1 % Recov								

1,1,1,2-Tetrachloroethane

107 57-137

Description: TRIP BLANK

Date Sampled:11/02/2011 Date Received: 11/02/2011 Laboratory ID: MK02081-016

Matrix: Aqueous

		Vo	<u> Iatile O</u>	rganic (Compound	ds by GC	<u> </u>				
Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201	•	t Prep D	ate	Batch 71223			
Param	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benze	ene			71-43-2	8260B	0.20	J	5.0	0.20	ug/L	1
1,2-Di	chloroethane			107-06-2	8260B	ND		5.0	0.30	ug/L	1
Ethylb	enzene			100-41-4	8260B	ND		5.0	1.7	ug/L	1
Methy	l tertiary butyl ether	(MTBE)	1	634-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphti	halene			91-20-3	8260B	ND		5.0	1.7	ug/L	1
Toluer	ne			108-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylene	es (total)		1	330-20-7	8260B	ND		5.0	1.7	ug/L	1
Surro	gate	Q	Run ′ % Recov								
1,2-Di	chloroethane-d4		105	70-1	30						
Bromo	fluorobenzene		99	70-1	30						
Toluer	ne-d8		100	70-1	30						

Run 1	Prep Method 5030B	Analytical Method 8260B	Dilution 1	Analysis 11/07/201	•	Prep Da	nte Bate 712:			
Param	eter			CAS Number	Analytical Method	Result	Q PQL	MDL	Units	Run
Diisop	ropyl ether (IPE)			108-20-3	8260B	ND	5.0	0.40	ug/L	1
Ethano	ol			64-17-5	8260B	ND	100	33	ug/L	1
3,3-Dir	methyl-1-butanol		(624-95-3	8260B	ND	20	1.0	ug/L	1
Ethyl-t	ert-butyl ether (ETBE)		(637-92-3	8260B	ND	1.0	0.20	ug/L	1
tert-An	nyl alcohol (TAA)			75-85-4	8260B	ND	20	6.7	ug/L	1
tert-An	nyl methyl ether (TAM	E)	9	994-05-8	8260B	ND	10	0.20	ug/L	1
tert-bu	tyl alcohol (TBA)			75-65-0	8260B	ND	20	6.7	ug/L	1
tert-Bu	tyl formate (TBF)		-	762-75-4	8260B	ND	5.0	1.0	ug/L	1
Surrog	jate	Q	Run 1 % Recov							
Bromo	fluorobenzene		99	70-1	30					
1,2-Dic	chloroethane-d4		105	70-1	30					
Toluen	e-d8		100	70-1	30					

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis Date 11/09/2011 14	•	Prep D 11/04/20		Batch 71161			
Param	eter			CAS A	nalytical Method	Result	Q	PQL	MDL.	Units	Run

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

* = Reportable result (only when report all runs)

Description: TRIP BLANK

Date Sampled:11/02/2011 Date Received: 11/02/2011 Laboratory ID: MK02081-016

Matrix: Aqueous

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis I 11/09/2011	•		Prep Da 11/04/201		Batch 71161			
Paran	neter			CAS Number	Analytical Method	ı	Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)		,	106-93-4	8011		ND	-	0.020	0.0061	ug/L	1
Surro	gate	Q	Run 1 % Recov									
1,1,1,2	2-Tetrachloroethane		127	57-13	37				······	***************************************		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

 $J = Estimated \ result < PQL \ and \ge MDL$

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

* = Reportable result (only when report all runs)

TEALY Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, South Carolina 29172 Telephone No. (803) 791-9700 Fax No. (803) 791-9111

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Turn Around Time Required 1-Product casewal required for expadded TAT) Sample, Disposed		DC Requirements (Specify)	Advisoration of the first particular and the f
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Note: All samples are retained for s	5		
diness office attailigeneing are made.	is ald many.	Perchangen on ce pulpage) Ands Divo Cine Perxi Receipt Tempf	of 'C' Torga Bank DY/DG

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SHEALY Chain of Custody Record	Paper	Address Tables (Paris) Political	State Zio Code	Greenville 10 28615 Libras	-	tormer hyder Termines 3. 12504	Project Number P.O Number (p. 0 P. 0 Number (p. 0 - 174)	HD / Departation Missing sample may be Date Tim fied on one ling.	8411 11/2/11 1148	24 41 - WM	(800) 11-mm		Find 3 but 11/11 1840	TAP BLOWK			Turn Argund Time Parturer, Phys. fat approximation equination exceeded 141). Sample, Disposal of Security. In the Post (Plans Specify).			3. Reinquished by	a, Religioushartte	Note: All samples are retained for six weeks from receipt unless other arrangements are made.

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc. Document Number, F-AD-016 Revision Number: 9

Page 1 of 1 Replaces Date 05/06/11 Effective Date, 10/11/11

			Sample Receipt Checklist (SRC)
Client: $oldsymbol{eta}$	LJL	WWW.min.min.	Cooler Inspected by/date DAL 1/1/2/11 Lot #: 1914 MKOL
Means of	receipt:	₹ SESI	Client UPS FedEx Airborne Exp Other
Yes	No 🗸		1. Were custody seals present on the cooler?
Yes 🗌	NO		2. If custody seals were present, were they intact and unbroken?
Cooler II)/tempera	ture upon r	ecelpt_667 °C 1 °C 1 °C 1 °C
Method:		mperature I	
Method o			
If respon	se is No (or Yes for 1	4, 15, 16), an explanation/resolution must be provided.
			3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified?
Yes 🗌	No 🗌	NA 🗗	PM notified by SRC, phone, note (circle one), other: (For
. v r1			coolers received via commercial courier, PMs are to be notified immediately.
Yes 🗌	No 🗆	NA	4. Is the commercial courier's packing slip attached to this form?
Yes 🖊	No	1371 -	5. Were proper custody procedures (relinquished/received) followed?
Yes 🗌	No _	NAET	5a Were samples relinquished by client to commercial courier?
Yes Z	No 🗌		6. Were sample IDs listed?
Yes Z	No No		7. Was collection date & time listed?
Yes 2	No 🗆		Were tests to be performed listed on the COC? Did all samples arrive in the proper containers for each test?
Yes 🗇	No 🗆		10. Did all container label information (ID, date, time) agree with COC?
Yes 7	No		11. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes 🗾	No		12. Was adequate sample volume available?
	200		13. Were all samples received within 1/2 the holding time or 48 hours, whichever
Yes Z	No 🗆		comes first?
Yes 🔲	No.Z	and the second s	14. Were any samples containers missing?
Yes 🗍	NO		15. Were there any excess samples not listed on COC?
Yes 🔲	No	NA 🗌	16. Were bubbles present >"pea-size" (¼"or 6mm in diameter) in any VOA vials?
Yes 🗌	No 🗌	NA.Z	17. Were all metals/O&G/HEM/nutrient samples received at a pH of <27
Yes 🔲	No 🗌	NA 🗵	18. Were all eyanide and/or sulfide samples received at a pH ≥12?
Yes 🔲	No 🗆	NY	 Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb (<0.2mg/L) samples free of residual chlorine?
Yes 🗌	No□	NA Z	20. Were collection temperatures documented on the COC for NC samples?
Yes 🔲	No 🗀	NA	21. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations,
			etc) correctly transcribed from the COC into the comment section in LIMS?
Sample I		ion (Mus	t be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(s			were received incorrectly preserved and were adjusted
according	dy in sam	ple receivii	ng with(H_2SO_4 , HNO_3 , HCl , $NaOH$) with the SR $\#$ (number)
Sample(s			were received with bubbles ≥6 mm in diameter.
Sample(s			were received with TRC >0.2 mg/L for NH3/
TKN/cya	nide/BNA	/pest/PCB/	herb.
Was client		aken, if ne	
SESI empl		res [_	No Did client respond: Yes No D
Comments			Date of response:
- v			The state of the s
		3286-1-5912-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	

APPENDIX C WASTE TRANSPORTATION AND DISPOSAL RECORDS



_	+										
	1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emergency Respon	nse Phone	4. Waste 7	fracking N	umber	
		5. Generator's Name and Mailir	na Address					4. Waste 7	82-6)5	
		The state of the s				Generator's Site Address (1904 S. M.e.	ess (if different tha	n mailing add	ress)		
	П		Bunnell-Lam	lmons Eng. loc		KWO # 22 /	1 1-16 P	: \$			
	П		6004 Ponder	ra Court.		924 S. Me	chanic s	1.			
	П	Generator's Phone:	Greenville, S	M: 29518	1	Penillatun, s	4				6
3	П	6. Transporter 1 Company Nam	10			Challenging) **•				
ğ	П		BLE					U.S. EPA ID	Number		
e e	H	7. Transporter 2 Company Nam	10								
ľ						*	4	U.S. EPA ID	Number		
	H	8. Designated Facility Name and	101-11						2		
Ø.	П	o. Designated Facility Name and	U Site Address VL	S Recovery Ser	vices			U.S. EPA ID I	Number		
B.	П	- 3	30	5 South Main St	1003						
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BOARD: Elizabeth M. Hagood Chairman Edwin H. Cooper, III Vice Chairman

Steven G. Kisner Secretary



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MAR 16 2007

BOARD: Henry C. Scott

Paul C. Aughtry, III

Glenn A. McCall

Coleman F. Buckhouse, MD



ALLEN VAUGHN
ESTATE OF ROBERT VAUGHN
4 E PARKER RD
GREENVILLE SC 29611-3504

Re:

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929; Cost Agreement #28815

Release Reported February 25, 1997

Assessment report received August 17, 2006

Greenville County

Dear Mr. Vaughn:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site utilizing your own contractor. The UST Program, suggests that an additional 8-hour Aggressive Fluid Vapor Recovery (AFVR) event be conducted on MW-6, followed by a comprehensive groundwater-sampling event. The sampling event should be conducted at least 30 days after the AFVR event to allow groundwater conditions to return to equilibrium.

Cost Agreement #28815 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. Approximately, 30 following the AFVR event, samples should be collected from all monitoring wells and analyzed for BTEX, Naphthalene, and MTBE by EPA method 8260B. Additionally, monitoring wells MW-1, 2, 13-15 should be analyzed for EDB by EPA Method 8011. Please note well purging should be conducted before sample collection if the well screen **does not** bracket the water table. Parsons Engineering Science, Inc. may proceed upon receipt of this letter. The report submitted at the completion of these activities should include the following:

• A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.

 A narrative portion documenting the estimated amount in gallons of the petroleum products removed as a liquid or vapor for the event. Wells containing free phase product should be gauged at the beginning and end of the AFVR event. Disposal manifests should be included as part of the final report.

• A narrative portion, documenting site conditions after the AFVR event and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event.

• Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the UST Program, shall be presented in tabular form. Groundwater laboratory analytical data for all monitoring wells shall be presented in tabular format.

A groundwater elevation contour map of the site based on current groundwater potentiometric data.

 A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.

Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.

Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

UST PROGRAM
DOCKETING #

Mr. Vaughn Page 2

BLE, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

The final report and invoice are due within 90 days from the date of this letter. Interim invoices may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the UST Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by the UST Program for the cost to be paid. The DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The UST Program grants preapproval for transportation of up to 5,000 gallons of groundwater from the referenced site to a permitted treatment facility. The contaminated groundwater must be properly stored in labeled containers or covered with plastic as appropriate. The contaminated groundwater must be accepted by the approved treatment facility. There can be no spillage or leakage in transport. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the final report

On all correspondence concerning this site, please reference UST Permit #11929 and CA #28815. If you have any questions or need additional information, you may do so by phone at (803) 896-6396, fax (803) 896-6245, or email at abernajd@dhec.sc.gov.

Sincerely

John D. Abernathy, Hydrogeologist

Southwestern SC Corrective Action Section

Underground Storage Tank Program
Bureau of Land and Waste Management

Enc:

Approved Cost Agreement

cc:

BLE, Inc., 6004 Ponders Ct., Greenville, SC 29611 (w/enc)

Technical file

Facility: 11929 FORMER RYDER TERMINA

ABERNAJD PO Number:

Task / Description Categories	Item Description		Qty / Pct	Unit Price	<u>Amount</u>
04 MOB/DEMOB			The second secon		
	A EQUIPMENT		1.0000	550.00	550.00
	B PERSONNEL		3.0000	275.00	825.00
10 SAMPLE COLLECTION					
	D GROUNDWATER NO-PURGE		15.0000	35.00	525.00
11 ANALYSES					
GW GROUNDWATER	A BTEX+NAPTH+MTBE	•	15.0000	100.00	1,500.00
	F EDB		5.0000	55.00	275.00
17 DISPOSAL					
	A2 WASTEWATER - PUMPING TEST		1,000.0000	0.60	600.00
19 RPT/PROJECT MNGT & COORDINATIO					
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23 EFR					
	A 8 HOUR EVENT		1.0000	3,000.00	3,000.00
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REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST AGREEMENT # 40379

Prepared For:

Ms. Ingrid Auten C/O Ms. Annie Mumbauer BB&T Wealth Management P.O. Box 408 Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-010

July 14, 2011

BLE Project Number J11-1010-16



July 14, 2011

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull St.

Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney

Hydrogeologist

Subject: Report of Multiple Aggressive Fluid Vapor Recovery Events

Former Ryder Truck Terminal Greenville, Greenville County UST Permit #11929; CA #40379 BLE Project No. J11-1010-16

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of five aggressive fluid vapor recovery (AFVR) events at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated March 10, 2011. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the

BLEING

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #40379 July 14, 2011 BLE Project No. J11-1010-16

soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2010 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. In a continued effort to remove free-product concentrations at the site, SCDHEC has required that five additional AFVR events be performed in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. This report presents the results of the work performed.

COMPLETED SCOPE OF SERVICES

Between March 15, 2011 and May 16, 2011, BLE personnel mobilized to the site to perform five AFVR events on existing monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The events were performed by Landprobe Drilling Services, LLC of Greenville, South Carolina (Landprobe), and a geologist from BLE was on-site for observation and monitoring. The AFVRs were performed 15 days apart in well groups specified by SCDHEC. This report presents the results of our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – MARCH 15, 2011

On March 15, 2011, the first AFVR event was conducted in monitoring well MW-15. Prior to initiating the event, BLE personnel gauged the monitoring well using a Solinst[®] Interface Meter Model 122. BLE personnel measured 1.05 feet of petroleum free-product in MW-15, prior to initiating the AFVR event (Figure 2).

The AFVR event was initiated at 1000 and concluded at 1800. The general weather conditions observed during this period of time were clear; winds varied between 13 and 17 mph with an ambient temperature between 42° and 52° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26.5 to 27 inches of mercury was applied to MW-15. In

BLE INC.

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal

SCDHEC UST Permit # 11929; CA #40379

July 14, 2011 BLE Project No. J11-1010-16

addition to collecting vacuum readings, the depth to water (feet below top of PVC casing (btoc))

was measured every 30 minutes in MW-6 and MW-14, to evaluate drawdown. Gauging data

observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site

by Landprobe personnel utilizing a granular activated carbon (GAC) unit. Influent and effluent

vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE®

2000 Photo Ionization Detector (PID). The observed vapor concentrations are shown in Table 1.

At the completion of the AFVR event, a total volume of 401 gallons of petroleum impacted

groundwater was determined to have been recovered from the site. Of that volume, approximately

two gallons of free-phase product was measured in the holding tanks at the end of the AFVR event

by Landprobe personnel. Please note that petroleum product losses may occur through

emulsification with the groundwater and volatilization during the AFVR event. Additionally, the

liquids may not have had sufficient time to separate in order to obtain an accurate free-product

thickness. Waste transportation and disposal records for the petroleum impacted groundwater

recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.14 pounds of gasoline vapor, which is equivalent to approximately 0.02

gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR

emissions calculations fo r this event are provided as Table 1A.

The AFVR well and source area monitoring wells were gauged immediately following the

conclusion of the event and 0.13 feet of free-phase product was observed in MW-6. No free-

product was detected in MW-15. Total free-product/water level changes for this event are shown

in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – MARCH 30, 2011

On March 30, 2011, the second AFVR event was conducted in monitoring wells MW-6 and MW-

18. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst[®]

BLE INC.

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #40379 July 14, 2011 BLE Project No. J11-1010-16

Interface Meter Model 122. BLE personnel measured 1.57 feet and 0.33 feet of petroleum free-

product in MW-6 and MW-18, respectively (Figure 2).

The AFVR event was initiated at 0800 and concluded at 1600. The general weather conditions

observed during this period of time were cloudy with rain showers; winds varied between 6 and 18

mph with an ambient temperature between 46° and 55° Fahrenheit. Throughout the duration of the

AFVR event, a continuous vacuum ranging from 26 to 26.5 inches of mercury was applied to MW-

6 and MW-18. In addition to collecting vacuum readings, the depth to free-product/groundwater

(feet btoc) was measured every 30 minutes in MW-2, MW-15, and MW-17 to evaluate drawdown.

Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site

by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were

measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed

vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 660 gallons of petroleum impacted

groundwater was determined to have been recovered from the site. Of that volume, approximately

six gallons of free-phase product was measured in the holding tanks at the end of the AFVR event

by Landprobe personnel. Please note that petroleum product losses may occur through

emulsification with the groundwater and volatilization during the AFVR event. Additionally, the

liquids may not have had sufficient time to separate in order to obtain an accurate free-product

thickness. Waste transportation and disposal records for the petroleum impacted groundwater

recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.42 pounds of gasoline vapor, which is equivalent to approximately 0.07

gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR

emissions calculations for this event are provided as Table 2A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of

the event and 0.01 feet, 0.44 feet, 3.10 feet, and 0.01 feet of free-phase product was observed in

BLEING

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #40379 July 14, 2011 BLE Project No. J11-1010-16

MW-6, MW-15, MW-17, and MW-18, respectively. Total free-product/water level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 – APRIL 14, 2011

On April 14, 2011, the third AFVR event was conducted in monitoring wells MW-4 and MW-17. BLE personnel measured 0.56 feet and 1.43 feet of free-product in monitoring wells MW-4 and MW-17, respectively, prior to initiating the AFVR event (Figure 2).

The AFVR event was initiated at 0750 and concluded at 1550. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 9 and 12 mph with an ambient temperature between 53° and 75° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 27 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to free-product/water (feet btoc) was measured every 30 minutes in monitoring wells MW-5, MW-6 and MW-15 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 3.

At the completion of the AFVR event, a total volume of 156 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately, three gallons of free-phase product were measured in the holding tanks at the end of the AFVR event by Landprobe personnel. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

BLEING

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #40379 July 14, 2011 BLE Project No. J11-1010-16

A total of approximately 0.09 pounds of gasoline vapor, which is equivalent to approximately 0.01 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR

emissions calculations for this event are provided as Table 3A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01 feet, 1.06 feet, and 0.46 feet of free-phase product was observed in MW-4, MW-6, and MW-15, respectively. Total water level changes for this event are shown in Table 3.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 – APRIL 29, 2011

On April 29, 2011, the fourth AFVR event was conducted in monitoring well MW-3R. Prior to initiating the event, BLE personnel did not detect the presence of free-phase petroleum product in

MW-3R (Figure 2).

The AFVR event was initiated at 0745 and concluded at 1530. The general weather conditions observed during this period of time were mostly cloudy; winds varied between 7 and 18 mph with an ambient temperature between 52° and 79° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 26 inches of mercury was applied to MW-3R. In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was measured every 30 minutes in wells MW-13 and MW-18, to evaluate drawdown. Gauging data observed during

the event is shown in Table 4.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed

vapor concentrations are shown in Table 4.

At the completion of the AFVR event, a total volume of 471 gallons of petroleum impacted

groundwater was determined to have been recovered from the site. No free-phase petroleum

product was measured in the holding tanks by Landprobe personnel following the completion of

the AFVR event. Please note that petroleum product losses may occur through emulsification with

the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have

BLEING

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal

SCDHEC UST Permit # 11929; CA #40379

July 14, 2011 BLE Project No. J11-1010-16

had sufficient time to separate in order to obtain an accurate free-product thickness. Waste

transportation and disposal records for the petroleum impacted groundwater recovered during the

AFVR event are provided in Appendix A.

A total of approximately 0.31 pounds of gasoline vapor which is equivalent to approximately 0.05

gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR

emissions calculations for this event are provided as Table 4A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of

the event and 0.14 feet of free-phase product was observed in MW-18. Total free-product/water

level changes for this event are shown in Table 4.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #5 – MAY 16, 2011

On May 16, 2011, the fifth AFVR event was conducted in monitoring well MW-6. Prior to

initiating the event, BLE personnel gauged 0.84 feet of free-phase petroleum product in MW-6

(Figure 2).

The AFVR event was initiated at 0815 and concluded at 1615. The general weather conditions

observed during this period of time were mostly partly cloudy; winds varied between 4 and 13 mph

with an ambient temperature between 54° and 70° Fahrenheit. Throughout the duration of the

AFVR event, a continuous vacuum ranging from 25 to 26 inches of mercury was applied to MW-6.

In addition to collecting vacuum readings, the depth to free-product/groundwater (feet btoc) was

measured every 30 minutes in wells MW-15, MW-17, and MW-18, to evaluate drawdown.

Gauging data observed during the event is shown in Table 5.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site

by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations were

measured every 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed

vapor concentrations are shown in Table 5.

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BLE INC.

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #40379 July 14, 2011 BLE Project No. J11-1010-16

At the completion of the AFVR event, a total volume of 56 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately two gallons of free-phase petroleum product was measured in the holding tanks by Landprobe personnel following the completion of the AFVR event. Please note that petroleum product losses may occur through emulsification with the groundwater and volatilization during the AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness. Waste transportation and disposal records for the petroleum impacted

A total of approximately 0.15 pounds of gasoline vapor which is equivalent to approximately 0.02 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5A.

groundwater recovered during the AFVR event are provided in Appendix A.

The AFVR and source area monitoring wells were gauged immediately following the conclusion of the event and 0.01 feet, 0.47 feet, 0.53 feet and 0.15 feet of free-phase product was observed in MW-6, MW-15, MW-17, and MW-18, respectively. Total free-product/water level changes for this event are shown in Table 5.

CONCLUSIONS AND RECOMMENDATIONS

On June 13, 2011 BLE personnel mobilized to the site to measure free-product levels in MW-2, MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 (Table 6). Approximately 0.15 feet (MW-4), 0.77 feet (MW-6), 0.51 feet (MW-15), 0.52 feet (MW-17), and 0.11 feet (MW-18) of free-phase product was measured in the wells.

Overall, the AFVR events have been successful in reducing free-product levels across the site; however, petroleum free-product still persists at moderate thicknesses in several wells. Therefore, we recommend an additional series of multiple 8-hour AFVR events be conducted to 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater (mass) from the subsurface. We recommend a series of five additional AFVR events be conducted

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BLE INC.

Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #40379 July 14, 2011 BLE Project No. J11-1010-16

on monitoring wells MW-4, MW-6, MW-15, and MW-17, which still exhibit free-product thicknesses.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey of the SCDHEC Bureau of Land and Waste Management, Financial Section, for payment.

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC

Trevor J. Benton, P.G.

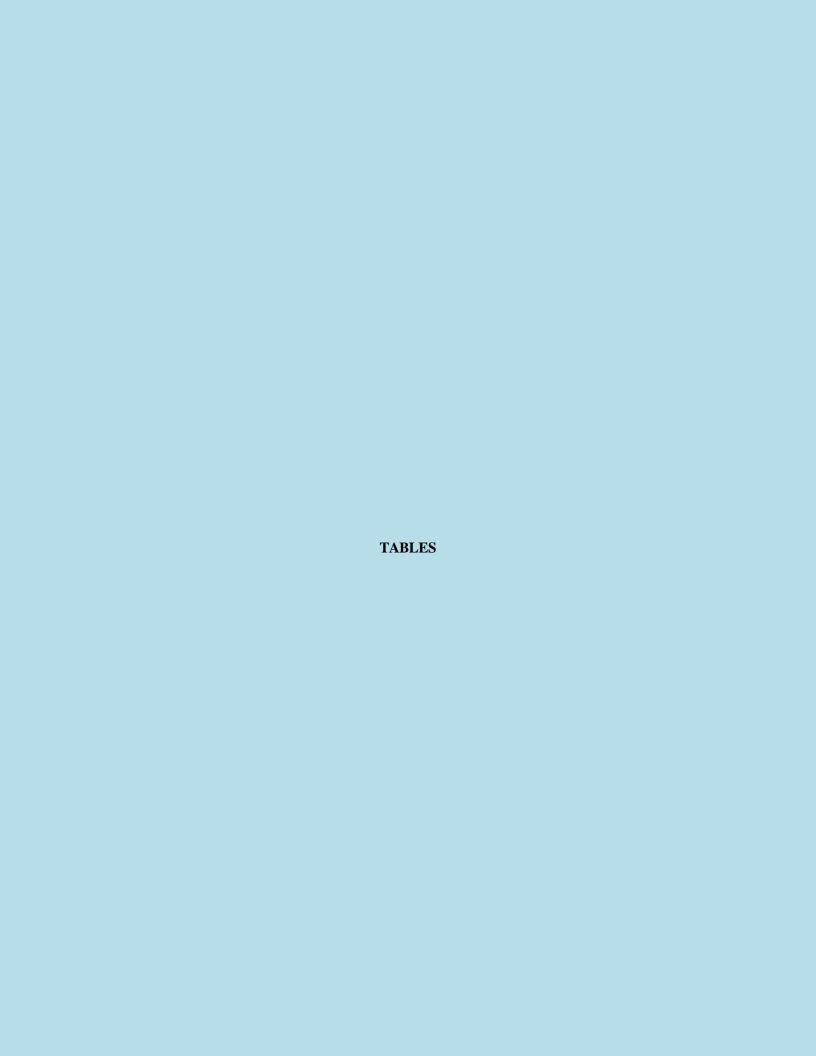
Project Hydrogeologist

Registered, South Carolina #2395

Гhomas L. Lammons, P.G.

Principal

Registered, South Carolina #8



AFVR Gauging Data - June 13, 2011 Former Ryder Truck

Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

	Monitor	ing Well Gaugi	ng Data			ir ssions
	Vacuum Readings (inches of Hg)	Depth	to Free Product (feet BTOC)	/ Water	Influent	Effluent
Time	MW-15	MW-14	MW-6	MW-15	(ppm)	(ppm)
1000	27.0	24.46	27.66/29.90	24.65/25.70	271	1
1030	27.0	24.71	26.89/29.00		1,080	1
1100	27.0	24.95	26.11/28.10		1,541	1
1130	27.0	25.18	26.18/28.24		1,520	1
1200	26.5	25.40	26.25/28.38	1	1486	1
1230	26.5	25.49	26.29/28.42	1	1158	1
1300	26.5	25.58	26.33/28.46	F	924	1
1330	26.5	25.65	26.36/28.48	AFVR EVENT	1137	1
1400	26.5	25.71	26.39/28.50	Ē	1058	1
1430	26.5	25.76	26.42/28.53	K K	889	1
1500	26.5	25.81	26.45/28.55	4F	852	1
1530	26.5	25.84	26.46/28.58	,	816	1
1600	26.5	25.86	26.47/28.60	1	828	1
1630	26.5	25.86	26.48/28.61		923	1
1700	26.5	25.87	26.49/28.63		865	1
1730	26.5	25.88	26.49/28.62		796	1
1800	26.5	25.89	26.49/28.63	27.95	813	1
	Water Level Change (feet)	1.43	0.97	2.25		
	Initial FP thickness (feet)	NFP	2.24	1.05		
	Final FP thickness (feet)	NFP	0.13	NFP		

NOTES:

AFVR event performed on March 15, 2011.

2.24 and 1.05 feet of free-phase petroleum was detected in MW-6 and MW-15 prior to

initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - Not free-phase petroleum product present

TABLE 1A

AFVR Emissions Field Data - March 15, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 **BLE Project Number J11-1010-16**

								WE	LL ID#:	MW-1	5						
			AFV	R FIELI	MEASU.	REMENTS						EN	MISSION CALC	ULATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q_{std}	PPM_d	PPM _c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
3/15/2011	1000	28.0	58	3	53.4	75.0	271	0:00	2.85	278.38	1,113.54	4	555.61	3.47E-05	0.01	0.01	0.00
3/15/2011	1030	28.0	38	3	66.2	81.4	1,080	0:30	1.82	1,109.43	4,437.71	4	2,214.24	1.38E-04	0.02	0.02	0.00
3/15/2011	1100	28.0	38	3	89.6	21.9	1,541	1:00	1.74	1,582.99	6,331.95	4	3,159.40	1.97E-04	0.02	0.02	0.00
3/15/2011	1130	28.0	58	3	92.6	18.0	1,520	1:30	2.65	1,561.42	6,245.66	4	3,116.34	1.95E-04	0.03	0.04	0.01
3/15/2011	1200	27.5	58	3	108.3	17.3	1,486	2:00	2.58	1,526.49	6,105.96	4	3,046.64	1.90E-04	0.03	0.03	0.01
3/15/2011	1230	27.5	58	3	104.9	35.2	1,158	2:30	2.59	1,189.55	4,758.21	4	2,374.16	1.48E-04	0.02	0.03	0.00
3/15/2011	1300	27.5	38	3	93.7	38.4	924	3:00	1.73	949.18	3,796.71	4	1,894.41	1.18E-04	0.01	0.01	0.00
3/15/2011	1330	27.5	38	3	95.3	41.9	1,137	3:30	1.73	1,167.98	4,671.92	4	2,331.11	1.46E-04	0.02	0.02	0.00
3/15/2011	1400	27.5	38	3	98.2	40.3	1,058	4:00	1.72	1,086.83	4,347.31	4	2,169.14	1.35E-04	0.01	0.02	0.00
3/15/2011	1430	27.5	38	3	92.6	42.2	889	4:30	1.74	913.22	3,652.89	4	1,822.65	1.14E-04	0.01	0.01	0.00
3/15/2011	1500	27.5	38	3	95.5	54.8	852	5:00	1.73	875.21	3,500.86	4	1,746.79	1.09E-04	0.01	0.01	0.00
3/15/2011	1530	27.5	38	3	95.5	50.9	816	5:30	1.73	838.23	3,352.93	4	1,672.98	1.04E-04	0.01	0.01	0.00
3/15/2011	1600	27.5	38	3	105.5	52.3	828	6:00	1.70	850.56	3,402.24	4	1,697.59	1.06E-04	0.01	0.01	0.00
3/15/2011	1630	27.5	38	3	105.5	57.2	923	6:30	1.70	948.15	4,740.75	5	2,365.45	1.48E-04	0.02	0.02	0.00
3/15/2011	1700	27.5	38	3	107.4	58.1	865	7:00	1.69	888.57	5,331.41	6	2,660.17	1.66E-04	0.02	0.02	0.00
3/15/2011	1730	27.5	38	3	109.3	56.4	796	7:30	1.68	817.69	5,723.82	7	2,855.97	1.78E-04	0.02	0.02	0.00
3/15/2011	1800	27.5	38	3	105.8	57.3	813	8:00	1.69	835.15	6,681.22	8	3,333.67	2.08E-04	0.02	0.02	0.00
Average V	Values	27.6	42.7	3	95.3	47.0	997		1.94	1,024.65	4,599.71	4.58824	2,295.08	1.43E-04	0.02	0.02	0.00
B _{ws} 0.027 B _{wsw} 0.016 Total Pounds of Carbon Recovered as Emissions: 0.13												0.12					

Total Pounds of Gasoline Recovered as Emissions: 0.14

Total Gallons of Gasoline Recovered as Emissions: 0.02

NOTES:

AFVR event performed on March 15, 2011.

Vacuum applied to monitoring well MW-15.

0.01, 2.24, and 1.05 feet of free-phase petroleum was detected in MW-4, MW-6, and MW-15 prior to initiating the AFVR.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

K - number of carbons in calibration gas

Ccm - mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon PMR_g-pollutant mass removal of VOCs as gasoline

Bwsw . lb of water per lb of dry air

Bws - water vapor % by volume

Calculations have been derived from published guidance

AFVR Gauging Data - March 30, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

			Monitori	ng Well Gaugin	g Data			Air Em	nissions
	Vacuum l (inches	U		Dept t	to Free Product/ (feet BTOC)	Water		Influent	Effluent
Time	MW-6	MW-18	MW-2	MW-6	MW-15	MW-17	MW-18	(ppm)	(ppm)
0800	26.5	26.0	24.96	25.48/27.05	24.25/24.63	24.70/27.19	24.95/25.28	204	
0830	26.5	26.0	25.60	T	24.43/24.86	24.74/27.32		780	14
0900	26.5	26.0	26.24	1	24.60/25.09	24.77/27.44		1,040	16
0930	26.5	26.0	26.51	1	24.78/25.32	24.85/27.62		1,443	18
1000	26.5	26.0	26.78	1	24.95/25.54	24.93/27.80		1026	28
1030	26.0	26.0	26.92	1	25.01/25.56	24.99/27.90		1221	25
1100	26.0	26.0	27.06]	25.07/25.58	25.05/27.99	Z	1132	23
1130	26.0	26.0	27.16	AFVR EVENT	25.12/25.63	25.10/28.08	AFVR EVENT	1303	20
1200	26.0	26.0	27.25		25.17/25.67	25.14/28.16	Ð	1136	19
1230	26.0	26.0	27.33	T #	25.22/25.70	25.18/28.21	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1271	21
1300	26.0	26.0	27.41	AF.	25.27/25.73	25.22/28.25	AF	1051	18
1330	26.0	26.0	27.47] '	25.29/25.74	25.24/28.29	,	1113	19
1400	26.0	26.0	27.52]	25.31/25.75	25.26/28.33		1061	19
1430	26.0	26.0	27.54	1	25.33/25.77	25.29/28.38		1009	20
1500	26.0	26.0	27.55]	25.35/25.79	25.32/28.42		962	25
1530	26.0	26.0	27.56]	25.36/25.80	25.34/28.44		987	23
1600	26.0	26.0	27.56	28.29/28.30	25.36/25.80	25.35/28.45	29.89/29.90	821	17
	Water Level (Change (feet)	3.07	1.25	1.17	1.26	4.62		
	Initial FP thi	ckness (feet)	NFP	1.57	0.38	2.49	0.33		
	Final FP thic	ckness (feet)	NFP	0.01	0.44	3.10	0.01		

NOTES:

AFVR event performed on March 30, 2011.

1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - Not free-phase petroleum product present

TABLE 2A

AFVR Emissions Field Data - March 30, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

								WELL ID	#: MW	-6 and I	MW-18						
			AFV	R FIELI	O MEASU	REMENTS						E	MISSION CALC	ULATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	$PPM_{measured}$	Elapsed Time	Q_{std}	PPM_d	PPM _c	K	C _{cm}	C _c	PMR_c	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
3/30/2011	800	27	77	3	56.8	77.0	204	0:00	3.58	220.05	880.20	4	439.19	2.74E-05	0.01	0.01	0.00
3/30/2011	830	27	77	3	76.8	84.6	780	0:30	3.45	841.37	3,365.49	4	1,679.25	1.05E-04	0.02	0.03	0.00
3/30/2011	900	27	116	3	100.0	26.9	1,040	1:00	4.98	1,121.83	4,487.31	4	2,239.00	1.40E-04	0.04	0.05	0.01
3/30/2011	930	27	135	3	126.8	17.5	1,443	1:30	5.53	1,556.54	6,226.15	4	3,106.61	1.94E-04	0.06	0.07	0.01
3/30/2011	1000	27	116	3	133.5	16.4	1,026	2:00	4.70	1,106.73	4,426.91	4	2,208.86	1.38E-04	0.04	0.04	0.01
3/30/2011																	
3/30/2011	1100	27	135	3	133.5	42.0	1,132	3:00	5.47	1,221.07	4,884.27	4	2,437.06	1.52E-04	0.05	0.06	0.01
3/30/2011	1130	27	155	3	139.4	45.3	1,303	3:30	6.21	1,405.52	5,622.09	4	2,805.20	1.75E-04	0.07	0.08	0.01
3/30/2011	1200	27	155	3	139.6	45.2	1,136	4:00	6.21	1,225.38	4,901.53	4	2,445.67	1.53E-04	0.06	0.07	0.01
3/30/2011	1230	27	135	3	134.7	49.2	1,271	4:30	5.45	1,371.00	5,484.02	4	2,736.31	1.71E-04	0.06	0.06	0.01
3/30/2011	1300	27	116	3	135.5	49.9	1,051	5:00	4.68	1,133.69	4,534.78	4	2,262.68	1.41E-04	0.04	0.05	0.01
3/30/2011	1330	27	175	3	136.7	41.9	1,113	5:30	7.05	1,200.57	4,802.29	4	2,396.16	1.50E-04	0.06	0.07	0.01
3/30/2011	1400	27	155	3	138.0	16.6	1,061	6:00	6.23	1,144.48	4,577.92	4	2,284.21	1.43E-04	0.05	0.06	0.01
3/30/2011	1430	27	155	3	140.5	55.2	1,009	6:30	6.20	1,088.39	4,353.56	4	2,172.26	1.36E-04	0.05	0.06	0.01
3/30/2011	1500	27	155	3	141.2	54.0	962	7:00	6.19	1,037.69	4,150.77	4	2,071.07	1.29E-04	0.05	0.06	0.01
3/30/2011	1530	27	155	3	140.7	57.6	987	7:30	6.20	1,064.66	4,258.63	4	2,124.89	1.33E-04	0.05	0.06	0.01
3/30/2011	1600	27	135	3	139.4	60.9	821	8:00	5.41	885.60	3,542.39	4	1,767.52	1.10E-04	0.04	0.04	0.01
Average \	Values	27	134.2	3	126.4	45.9	1,033		5.47	1,114.21	4,456.86	4	2,223.80	1.39E-04	0.05	0.05	0.01
B _{ws} 0.073 B _{wsw} 0.044 Total Pounds of Carbon Recovered as Emissions: 0.36											0.36						

NOTES:

AFVR event performed on March 30, 2011.

Vacuum applied to monitoring wells MW-6 and MW-18.

1.57, 0.38, 2.49, and 0.33 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPMc - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

Ccm - mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon PMR_g-pollutant mass removal of VOCs as gasoline

Bwsw . lb of water per lb of dry air

Bws - water vapor % by volume

Calculations have been derived from published guidance

0.42

0.07

AFVR Gauging Data - April 14, 2011

Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

			Monitorii	ng Well Gaugin	g Data			Air En	issions
	Vacuum l (inches			D	epth to Free Wa (feet BTOC)	ter		Influent	Effluent
Time	MW-4	MW-17	MW-4	MW-5	MW-6	MW-15	MW-17	(ppm)	(ppm)
0750	26.5	26.0	24.03/24.59	24.00	25.23/26.04	23.73/24.24	24.41/25.84	83	
0820	26.5	26.0		24.01	25.27/26.17	23.77/24.29		233	8
0850	27.0	26.0		24.02	25.30/26.30	23.81/24.34		359	6
0920	27.0	26.0		24.02	25.37/26.41	23.81/24.34		387	6
0950	27.0	26.0		24.02	25.43/26.51	23.81/24.34		390	7
1020	27.0	26.0		24.03	25.47/26.56	23.81/24.33		435	8
1050	27.0	26.0	Ę	24.03	25.51/26.60	23.81/24.32	K	497	10
1120	27.0	26.0	AFVR EVENT	24.03	25.54/26.62	23.81/24.32	AFVR EVENT	490	11
1150	27.0	26.0	<u> </u>	24.03	25.57/26.64	23.81/24.32	뎔	554	14
1220	27.0	26.0	l &	24.03	25.59/2667	23.80/24.32	VR	521	10
1250	27.0	26.0	₽	24.02	25.60/26.69	23.79/24.32	₽F.	483	8
1320	27.0	26.0	7	24.02	25.62/26.71	23.78/24.31	,	474	9
1350	27.0	26.0		24.01	25.64/26.73	23.77/24.29		459	7
1420	27.0	26.0		24.01	25.65/26.74	23.77/24.28		484	9
1450	27.0	26.0		24.00	25.66/26.74	23.77/24.28		471	7
1520	27.0	26.0		23.99	25.67/26.74	23.77/24.27		477	8
1550	27.0	26.0	25.04/25.05	23.98	25.67/26.73	23.76/24.25	28.47	497	10
	Water Level (Change (feet)	0.46	-0.20	0.69	0.01	2.63		
	Initial FP thi	ckness (feet)	0.56	NFP	0.81	0.51	1.43		
	Final FP thickness (feet)		0.01 NFP 1.06 0.46				NFP		

NOTES:

AFVR event performed on April 14, 2011.

0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE[®] 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water;

positive = drawdown; negative = rise

NFP - No free-phhase petroleum product present

TABLE 3A

AFVR Emissions Field Data - April 14, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

								WELL ID	#: MW-	4 and N	1W-17						
			AFV	R FIELI) MEASU	REMENTS						EN	MISSION CALCU	JLATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q_{std}	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_{g}	PMR_{g}
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
4/14/2011	750	27.5	77	3	68.1	89.9	83	0:00	3.40	92.34	369.35	4	184.29	1.15E-05	0.00	0.00	0.00
4/14/2011	820	27.5	58	3	81.1	94.7	233	0:30	2.50	259.21	1,036.85	4	517.35	3.23E-05	0.00	0.01	0.00
4/14/2011	850	27.5	58	3	101.4	89.6	359	1:00	2.41	399.39	1,597.55	4	797.12	4.98E-05	0.01	0.01	0.00
4/14/2011	920	27.5	58	3	109.7	85.6	387	1:30	2.37	430.54	1,722.15	4	859.29	5.36E-05	0.01	0.01	0.00
4/14/2011	950	27.5	77	3	110.3	83.7	390	2:00	3.15	433.88	1,735.50	4	865.95	5.41E-05	0.01	0.01	0.00
4/14/2011	1020	27.5	77	3	116.4	88.2	435	2:30	3.11	483.94	1,935.75	4	965.87	6.03E-05	0.01	0.01	0.00
4/14/2011	1050	27.5	77	3	120.2	79.7	497	3:00	3.09	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
4/14/2011	1120	27.5	77	3	121.4	73.5	490	3:30	3.09	545.13	2,180.50	4	1,087.99	6.79E-05	0.01	0.01	0.00
4/14/2011	1150	27.5	58	3	123.4	75.4	554	4:00	2.32	616.33	2,465.30	4	1,230.09	7.68E-05	0.01	0.01	0.00
4/14/2011	1220	27.5	77	3	126.8	71.1	521	4:30	3.06	579.61	2,318.45	4	1,156.82	7.22E-05	0.01	0.02	0.00
4/14/2011	1250	27.5	77	3	127.9	63.0	483	5:00	3.05	537.34	2,149.35	4	1,072.44	6.70E-05	0.01	0.01	0.00
4/14/2011	1320	27.5	77	3	131.5	94.3	474	5:30	3.03	527.33	2,109.30	4	1,052.46	6.57E-05	0.01	0.01	0.00
4/14/2011	1350	27.5	58	3	131.5	67.1	459	6:00	2.28	510.64	2,042.55	4	1,019.15	6.36E-05	0.01	0.01	0.00
4/14/2011	1420	27.5	58	3	132.4	70.9	484	6:30	2.28	538.45	2,153.80	4	1,074.66	6.71E-05	0.01	0.01	0.00
4/14/2011	1450	27.5	77	3	133.3	70.8	471	7:00	3.02	523.99	2,095.95	4	1,045.80	6.53E-05	0.01	0.01	0.00
4/14/2011	1520	27.5	77	3	136.0	67.2	477	7:30	3.01	530.66	2,122.65	4	1,059.12	6.61E-05	0.01	0.01	0.00
4/14/2011	1550	27.5	77	3	136.4	67.0	497	8:00	3.01	552.91	2,211.65	4	1,103.53	6.89E-05	0.01	0.01	0.00
Average `	Values	27.5	70.3	3	118.1	78.3	429		2.83	477.33	1,909.31	4	952.67	5.95E-05	0.01	0.01	0.00
\mathbf{B}_{ws}	B _{ws} 0.101 B _{wsw} 0.061 Total Pounds of Carbon Recovered as Emissions: 0.08																

NOTES:

AFVR event performed on April 14, 2011.

Vacuum applied to Monitoring wells MW-4 and MW-17.

0.56, 0.81, 0.51, and 1.43 feet of free-phase petroleum was detected in MW-4, MW-6, MW-15, and MW-17 prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million Q_{std} flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

 PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

 $C_{\rm cm}$. mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMRg - pollutant mass removal of VOCs as gasoline

Bwsw - lb of water per lb of dry air

 $B_{ws\,\text{-}}$ water vapor % by volume

Calculations have been derived from published guidance

0.09

0.01

$AFVR\ Gauging\ Data\ -\ April\ 29,\ 2011$

Former Ryder Truck

Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379

BLE Project Numbe	r J11-1010-16
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	Monitori	ng Well Gaugii	ng Data		Air En	nissions
	Vacuum Readings (inches of Hg)	Depth	to Free Product (feet BTOC)	t/ Water	Influent (ppm)	Effluent (ppm)
Time	MW-3R	MW-3R	MW-13	MW-18	(ppm)	(ppm)
0745	26.0	23.43	22.86	24.20/24.31	312	
0815	26.0		22.98	24.19/24.32	1,166	
0845	26.0		23.10	24.18/24.33	1,302	24
0915	26.0		23.19	24.2324.37	1,295	27
0945	26.0		23.27	24.27/24.41	1205	24
1015	26.0		23.32	24.31/24.45	1110	19
1045	26.0	F	23.37	24.35/24.48	1070	13
1115	26.0	ΛE	23.42	24.38/24.51	935	10
1145	26.0		23.46	24.40/24.54	940	10
1215	26.0	AFVR EVENT	23.49	24.42/24.55	369	6
1245	26.0		AF	23.51	24.43/24.56	670
1315	26.0	,	23.52	24.44/24.57	851	10
1345	26.0		23.53	24.44/24.57	777	8
1415	26.0		23.55	24.45/24.59	726	7
1445	26.0		23.57	24.46/24.60	640	7
1515	26.0		23.58	24.47/24.61	611	6
1530	26.0	25.26	23.58	24.47/24.61	585	6
	Water Level Change (feet)	1.83	0.72	0.30		
	Initial FP thickness (feet)	NFP	NFP	0.11		
	Final FP thickness (feet)	NFP	NFP	0.14		

NOTES:

AFVR event performed on April 29, 2011.

0.11 feet of free-phase petroleum was detected in MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - No free-phase petroleum product present.

TABLE 4A

AFVR Emissions Field Data - April 29, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379

BLE Project Number J11-1010-16

								WEI	LL ID #:	MW-31	R						
			AFVI	R FIELD	MEASU	REMENTS						E	MISSION CALC	ULATIONS			
Date	Time	Vacuum (in. Hg)	Velocity (ft/min)	Pipe D (in)	Temp (F)	Rel. Humidity	PPM _{measured} (ppm)	Elapsed Time (hr:min)	Q _{std} (DSCFM)	PPM _d	PPM_c	K	C _{cm} (mg/dsm3)	C _c (lb/dscf)	PMR _c (lb/hr)	PMR _g (lb/hr)	PMR _g (gal/hr)
4/29/2011	745	27.5	97	3	61.5	80.3	312	0:00	4.31	349.03	1,396.13	4	696.61	4.35E-05	0.01	0.01	0.00
4/29/2011	815	27.5	77	3	91.4	88.2	1,166	0:30	3.24	1,304.39	5,217.57	4	2,603.37	1.63E-04	0.03	0.04	0.01
4/29/2011	845	27.5	97	3	113.3	69.9	1,302	1:00	3.92	1,456.54	5,826.14	4	2,907.02	1.81E-04	0.04	0.05	0.01
4/29/2011	915	27.5	77	3	116.7	58.1	1,295	1:30	3.09	1,448.70	5,794.82	4	2,891.39	1.81E-04	0.03	0.04	0.01
4/29/2011	945	27.5	118	3	124.3	91.6	1,205	2:00	4.68	1,348.02	5,392.09	4	2,690.44	1.68E-04	0.05	0.05	0.01
									1.55E-04	0.04	0.05	0.01					
4/29/2011	1045	27.5	118	3	129.5	67.8	1,070	3:00	4.64	1,197.00	4,788.00	4	2,389.02	1.49E-04	0.04	0.05	0.01
4/29/2011	1115	27.5	118	3	131.0	61.8	935	3:30	4.63	1,045.98	4,183.90	4	2,087.61	1.30E-04	0.04	0.04	0.01
4/29/2011	1145	27.5	135	3	138.9	62.1	940	4:00	5.22	1,051.57	4,206.28	4	2,098.77	1.31E-04	0.04	0.05	0.01
4/29/2011	1215	27.5	118	3	116.2	75.1	369	4:30	4.74	412.80	1,651.19	4	823.88	5.14E-05	0.01	0.02	0.00
4/29/2011	1245	27.5	97	3	123.6	73.1	670	5:00	3.85	749.52	2,998.09	4	1,495.93	9.34E-05	0.02	0.02	0.00
4/29/2011	1315	27.5	118	3	132.0	67.3	851	5:30	4.62	952.01	3,808.02	4	1,900.06	1.19E-04	0.03	0.04	0.01
4/29/2011	1345	27.5	135	3	134.6	64.1	777	6:00	5.26	869.22	3,476.89	4	1,734.83	1.08E-04	0.03	0.04	0.01
4/29/2011	1415	27.5	135	3	140.1	57.8	726	6:30	5.21	812.17	3,248.68	4	1,620.96	1.01E-04	0.03	0.04	0.01
4/29/2011	1445	27.5	155	3	141.2	56.4	640	7:00	5.97	715.96	2,863.85	4	1,428.95	8.92E-05	0.03	0.04	0.01
4/29/2011	1515	27.5	135	3	143.2	55.4	611	7:30	5.19	683.52	2,734.08	4	1,364.20	8.52E-05	0.03	0.03	0.00
4/29/2011	1530	27.5	135	3	144.1	55.1	585	7:45	5.18	654.43	2,617.74	4	1,306.15	8.15E-05	0.03	0.03	0.00
Average \	Values	27.5	116.6	3	124.1	69.3	857		4.61	958.39	3,833.56	4	1,912.80	1.19E-04	0.03	0.04	0.01
\mathbf{B}_{ws}	0.106	$\mathbf{B}_{\mathrm{wsw}}$	0.064									Total P	ounds of Carbo	on Recovered as	Emissions	s :	0.26

NOTES:

AFVR event performed on April 29, 2011.

Vacuum applied to monitoring well MW-3R.

0.11 feet of free-phase petroleum was detected in MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

 $C_{\text{cm}\,\text{-}}$ mass concentration of VOC emissions as carbon

 \mbox{PMR}_{c} - pollutant mass removal of VOCs as carbon

PMR_g pollutant mass removal of VOCs as gasoline

 B_{wsw} . lb of water per lb of dry air

Bws - water vapor % by volume

Calculations have been derived from published guidance

0.31

0.05

AFVR Gauging Data - May 16, 2011 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

	I	Monitoring Wel	l Gauging Data			Air Emissions		
	Vacuum Readings (inches of Hg)		-	Product/ Water BTOC)		Influent	Effluent	
Time	MW-6	MW-6	MW-15	MW-17	MW-18	(ppm)	(ppm)	
0815	26	24.38/25.22	22.90/23.31	23.64/24.18	23.80/23.94	840		
0845	25		22.92/23.35	23.69/24.22	23.88/24.02	1,681		
0915	25	1	22.93/23.38	23.73/24.26	23.96/24.10	1,995	28	
0945	25	1	22.95/23.40	23.77/24.30	24.00/24.13	1,930	25	
1015	25		22.96/23.42	23.81/24.34	24.03/24.16	1,765	26	
1045	25		22.97/23.43	23.84/24.37	24.05/24.18	1,703	31	
1115	25	AFVR EVENT	22.97/23.44	23.87/24.40	24.06/24.20	1,690	27	
1145	25	VE	22.98/23.45	23.90/24.43	24.07/24.21	1,426	21	
1215	25		22.98/23.45	23.92/24.45	24.08/24.22	1,414	20	
1245	25	X	22.98/23.45	23.94/24.46	24.09/24.22	1,358	20	
1315	25	AF	22.98/23.45	23.95/24.47	24.09/24.22	1,296	25	
1345	25	l '	22.98/23.46	23.96/24.49	24.10/24.23	1,150	18	
1415	25		22.98/23.46	23.97/24.50	24.10/24.23	1,150	18	
1445	25		22.98/23.45	23.98/24.52	24.11/24.24	1,120	17	
1515	25		22.98/23.44	23.99/24.53	24.11/24.25	1,088	15	
1545	25		22.98/23.44	24.00/24.53	24.11/24.25	1,061	13	
1615	25	26.77/26.78	22.97/23.44	24.00/24.53	24.10/24.25	944	13	
	Water Level Change (feet)	1.56	0.13	0.35	0.31			
	Initial FP thickness (feet)	0.84	0.41	0.54	0.14			
	Final FP thickness (feet)	0.01	0.47	0.53	0.15			

NOTES:

AFVR event performed on May 16, 2011.

0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP - No free-phase petroleum product present.

TABLE 5A

AFVR Emissions Field Data - May 16, 2011 Former Ryder Truck Greenville, South Carolina

SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

								WE	LL ID#	: MW-6	-						
			AFV	R FIELI	MEASU.	REMENTS						E	MISSION CALC	ULATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q_{std}	PPM_d	PPM_c	K	C_{cm}	C _c	PMR_c	PMR_g	PMR_g
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
5/16/2011	815	27	18	3	66.0	88.1	840	0:00	0.81	914.27	3,657.07	4	1,824.74	1.14E-04	0.01	0.01	0.00
5/16/2011	845	27	18	3	80.6	94.3	1,681	0:30	0.79	1,829.62	7,318.49	4	3,651.64	2.28E-04	0.01	0.01	0.00
5/16/2011	915	27	18	3	113.5	70.8	1,995	1:00	0.75	2,171.38	8,685.54	4	4,333.75	2.71E-04	0.01	0.01	0.00
5/16/2011	945	27	18	3	119.8	72.9	1,930	1:30	0.74	2,100.64	8,402.55	4	4,192.55	2.62E-04	0.01	0.01	0.00
5/16/2011	1015	27	18	3	123.4	69.5	1,765	2:00	0.73	1,921.05	7,684.20	4	3,834.12	2.39E-04	0.01	0.01	0.00
5/16/2011	1045	27	36	3	120.3 69.7 1,703 2:30 1.48 1,853.57 7,414.27 4 3,699.43 2.31E-04										0.02	0.02	0.00
5/16/2011	1115	27	18	3	124.5	72.8	1,690	3:00	0.73	1,839.42	7,357.67	4	3,671.19	2.29E-04	0.01	0.01	0.00
5/16/2011	1145	27	58	3	126.1	62.1	1,426	3:30	2.36	1,552.08	6,208.31	4	3,097.71	1.93E-04	0.03	0.03	0.01
5/16/2011	1215	27	38	3	126.6	63.9	1,414	4:00	1.54	1,539.02	6,156.06	4	3,071.64	1.92E-04	0.02	0.02	0.00
5/16/2011	1245	27	58	3	127.7	60.1	1,358	4:30	2.35	1,478.06	5,912.26	4	2,949.99	1.84E-04	0.03	0.03	0.00
5/16/2011	1315	27	38	3	120.7	63.3	1,296	5:00	1.56	1,410.58	5,642.33	4	2,815.31	1.76E-04	0.02	0.02	0.00
5/16/2011	1345	27	58	3	120.3	62.8	1,150	5:30	2.38	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.02	0.03	0.00
5/16/2011	1415	27	38	3	118.7	64.3	1,150	6:00	1.56	1,251.67	5,006.70	4	2,498.15	1.56E-04	0.01	0.02	0.00
5/16/2011	1445	27	58	3	115.8	70.2	1,120	6:30	2.40	1,219.02	4,876.09	4	2,432.98	1.52E-04	0.02	0.03	0.00
5/16/2011	1515	27	38	3	118.2	65.3	1,088	7:00	1.57	1,184.19	4,736.77	4	2,363.47	1.48E-04	0.01	0.02	0.00
5/16/2011	1545	27	38	3	120.3	63.8	1,061	7:30	1.56	1,154.81	4,619.22	4	2,304.81	1.44E-04	0.01	0.02	0.00
5/16/2011	1615	27	38	3	123.2	64.3	944	8:00	1.55	1,027.46	4,109.85	4	2,050.66	1.28E-04	0.01	0.01	0.00
Average V	Values	27	36	3	115.6	69.3	1,389		1.46	1,511.68	6,046.71	4	3,017.07	1.88E-04	0.02	0.02	0.00
B _{ws} 0.081 B _{wsw} 0.049 Total Pounds of Carbon Recovered as Emissions: 0.13											0.13						

NOTES:

AFVR event performed on May 16, 2011.

Vacuum applied to observation wells MW-6.

0.84, 0.41, 0.54, and 0.14 feet of free-phase petroleum was detected in MW-6, MW-15, MW-17, and MW-18, prior to initiating the AFVR event

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

 $C_{\mbox{\scriptsize cm}}$ mass concentration of VOC emissions as carbon

 \mbox{PMR}_{c} - pollutant mass removal of VOCs as carbon

PMR_g pollutant mass removal of VOCs as gasoline

Bwsw . lb of water per lb of dry air

Bws - water vapor % by volume

Calculations have been derived from published guidance

0.15

0.02

Post AFVR Gauging Data - August 16, 2010 Former Ryder Truck Greenville, South Carolina SCDHEC UST Permit #11929; Cost Agreement #40379 BLE Project Number J11-1010-16

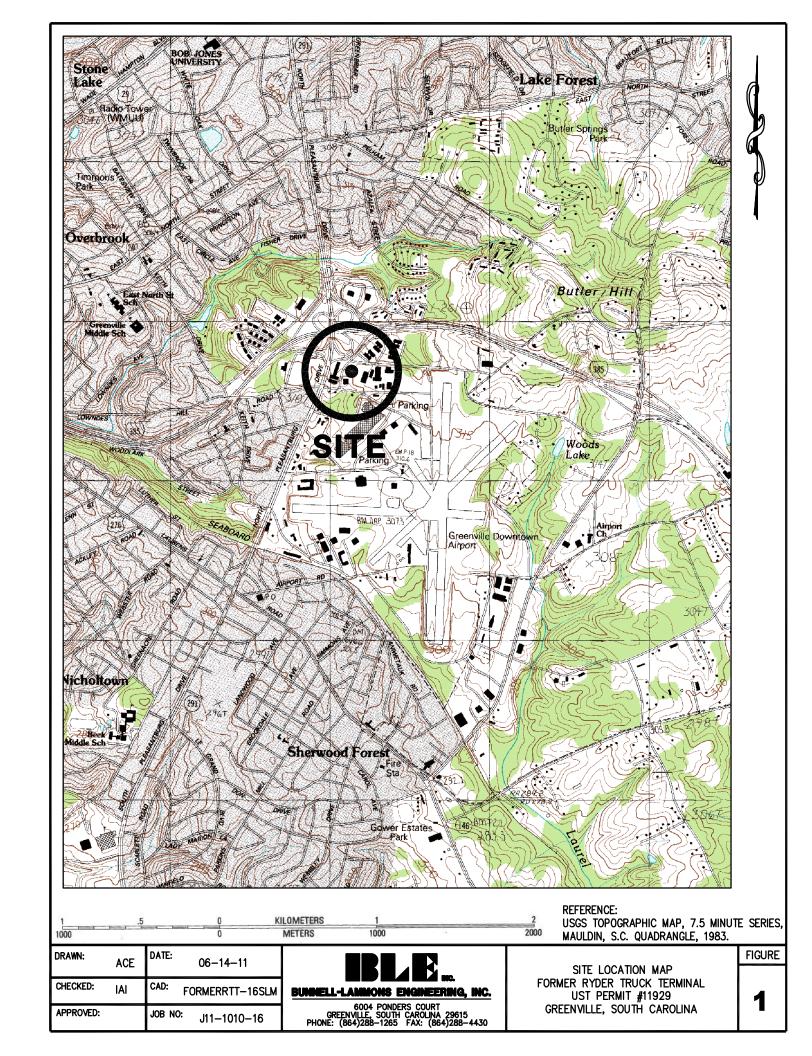
Well ID	MW-2	MW-3R	MW-4	MW-6	MW-15	MW-17	MW-18
Depth to Free-Product / Groundwater	24.08	23.61	23.35/23.50	24.60/25.37	23.20/23.71	23.85/24.37	24.10/24.21
Free-Product Thickness (ft)	NFP	NFP	0.15	0.77	0.51	0.52	0.11

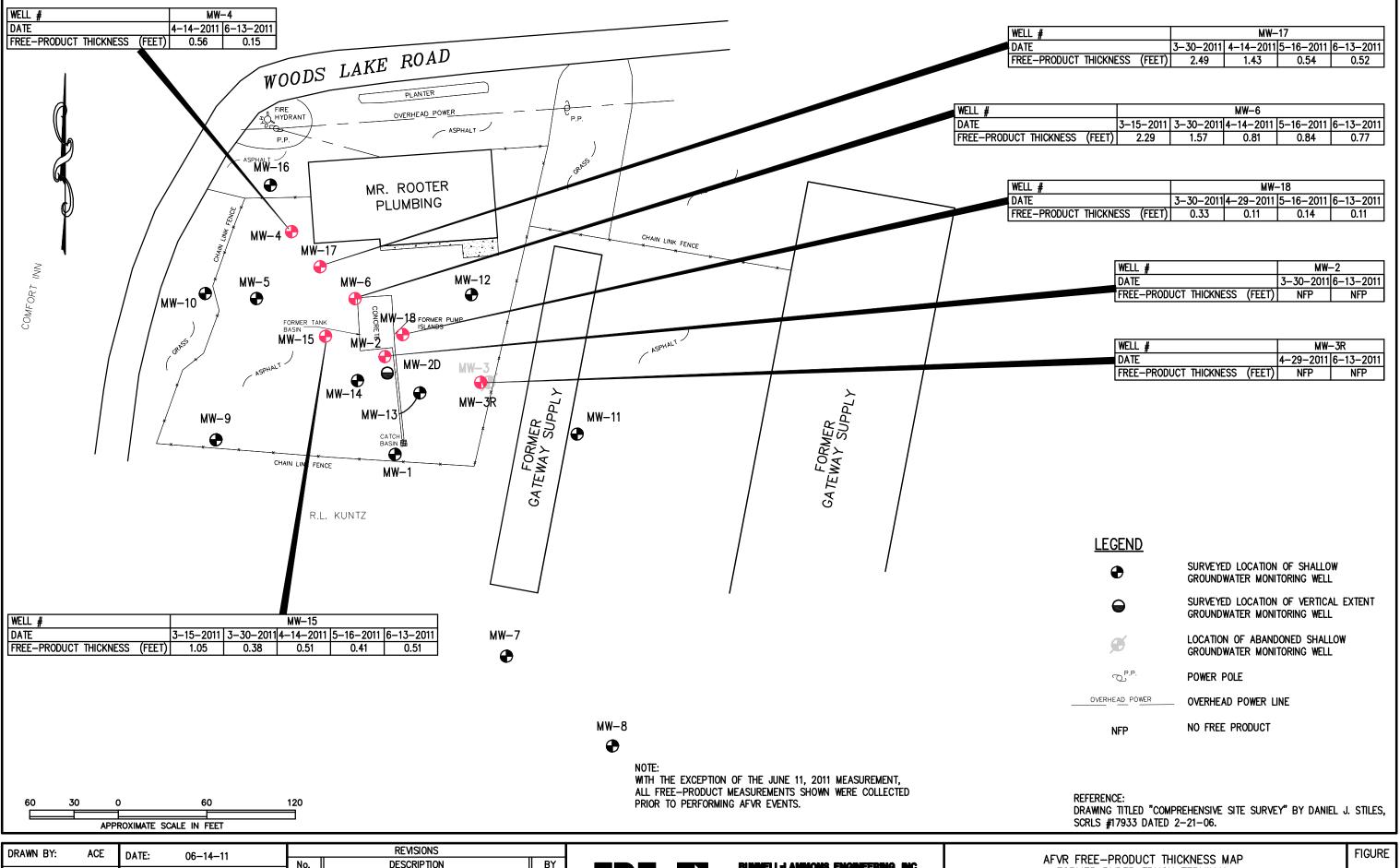
NOTES:

Measurements are in feet below top of casing

Prepared By: IAI Checked By: MLT







DRAWN BY:	ACE	DATE:	06-14-11		REVISIONS	
		DATE:	00-14-11	No.	DESCRIPTION	BY
CHECKED BY:	IAI	FILE:	FORMERRTT-16FPTM			
APPROVED BY:		JOB NO:	J11-1010-16			



BUNNELL-LAMMONS ENGINEERING, INC.

6004 PONDERS COURT
GREENVILLE SOUTH CAROLINA 29615

AFVR FREE—PRODUCT THICKNESS MAI FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA

2



APPENDIX A WASTE TRANSPORTATION AND DISPOSAL RECORDS

1	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of	3. Emergency Res	sponse Phone	4 2	Tracking Nu		
	5. Generator's Name and Maili	Bunnell-Lamuneos Eng. (6004 Pooters Court Greenville, SC 39515	TO As Ag	NT NT	Generator's Site A	ddress (if different Rydon CELAKE VIILE	t than mailing ad	dress)		ű.
	6. Transporter 1 Company Nam	ne ELE				0.60	U.S. EPA I	D Number	30.511 <u>*****</u>	
	7. Transporter 2 Company Nam	*					U.S. EPA I	D Number		
		d Site Address, A.S. Recovery Service 305 South Main St. Mauddin, SC 29562	es Pledmont,	LLC			U.S. EPA I	D Number & G	RD00762468	
	Facility's Phone:					10	Ī.			*2
	9. Waste Shipping Name	and Description			10. No.	Containers	11. Total Quantity	12. Unit Wt./Vol.		
GENERATOR -	1. West Water W11312	FORMER Ryden T			001	Type	HOI	Will Vol.		
- GEN	2. Later water 4-11312	RANDY SIMB EX HWY 25 PRINCET	коп Он ,SC 0633			, ,	40	9		
	3.10612 WATER	RANDY SIMB EX PRINCE FONCE PRINCE PRI	STORE Spartants OS	w is			9,5	3.		
	# 1/3/2 13. Special Handling Instructions		it Simpson 140	naille, S	c.		15	5		
		S CERTIFICATION: I hereby declare that th d, and are in all respects in proper condition	e contents of this c	consignment are	fully and accurately ole international and	r described above national governm	by the proper sh	nipping name,	and are classified, p	oackaged,
V .	Generator's/Offeror's Printed/Typ Recal NA KOEL 15. International Shipments	ed Name		Signa	ature				Month E	Day Year
INI	Transporter Signature (for exports	Import to U.S. s only):		Export from U.S		of entry/exit: leaving U.S.:	1			
1	 Transporter Acknowledgment Transporter 1 Printed/Typed Nam 	of Receipt of Materials			100	oaving 0.5				
2	REGINA KOEMIC Transporter 2 Printed/Typed Nam	En .		Signa	162574 m	Lucy .	Market State of the State of th		· 7 /	Day Year Co // Day Year
	17. Discrepancy						Andrew			
	17a. Discrepancy Indication Spac	e Quantity	Туре	. 4.	Residue	S	Partial Rej	ection	Full F	Rejection
	17b: Alternate Facility (or General	or)			Manifest Referen	e Number:	U.S. EPA ID I	Number		
- ACIELL	Facility's Phone:			¥			1			
3	17c. Signature of Alternate Facility	r (or Generator)		×	2				Month Da	ay Year
T DIOTO										
	8. Designated Facility Owner or C Printed/Typed Name	Operator: Certification of receipt of materials	covered by the ma				pritters (A. Kento)	AND PROPERTY OF THE STATE OF	er zowasiałościon	AMEDIES ALASSA
	100	lo Talley	* 2 *	Signati	lancisto.	Wellan	ar .	¥0	Month Da	ay Year

Carl #4518

A	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of 3. Em	ergency Response F	Phone		racking Nu			
	5. Generator's Name and Mail Generator's Phone:	ng Address Bunnell-Lammons Eng., lac A c 6 5004 Ponders Court Grennelle, SC 29815	lent to	ator's Site Address () remera Paya species chir species chiral company and species are species and species and species and species are spe	hater EFRE	an mailing add	ress)	3		120
	6. Transporter 1 Company Nar	ne GLE				U.S. EPA ID	Number	3-4-		
	7. Transporter 2 Company Nar	8				U.S. EPA ID	Number			
	8. Designated Facility Name at Facility's Phone:	nd Site Address VI. Si Recovery Services Pledm 303 Stouth Main St. Mauldin, SC 29552 953	ion, ilc			U.S. EPA ID		RXQ0752468	}	
	9. Waste Shipping Nam			10. Containe		11. Total Quantity	12. Unit Wt./Vol.			-17
GENERATOR -	南1312	FORMER RYCHA TERMINAS		001	Type	1000g	G			
GENE	24000 ONTER	UST # 11929 Pine Rickyle UST # OOGHO Frember OL BULK F				235	9			
		STRINGER ON BLUE P	dant			63	2			
	13. Special Handling Instruction	9								
	Generator's/Offeror's Printed/Ty		rt according to applicable inte	rnational and nationa	l governmen	tal regulations.	pping name,	and are classified	ed, packag	ed, Year
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FACILITY -	17b. Alternate Facility (or Gener	ator)	Man	ifest Reference Num		U.S. EPA ID N	lumber			
DESIGNATED FACILITY	17c. Signature of Alternate Facil	ity (or Generator)						Month	Day	Year
I	18 Designated Facility Owner a	r Operator: Certification of receipt of materials covered by	the monifest and							
V	Printed/Typed Name	usty Price	the manifest except as noted	I in Item 178	Constitution of the contraction	the state of the s		Month	Day	Year
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L	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number	(9)		3. Emergency Respon		10	Tracking No	
1	5. Generator's Name and Maili	ing Address ฮินกกลที-Lammona	Eng inc		Generator's Site Addre	ess (if different	than mailing add	ress)	4)
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	Tanana Tanana Tanana	M.A.			*		U.S. EPA ID) Number	
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8	B. Designated Facility Name an	nd Site Address	Charden Madden	A 11 B			U.S. EPA ID	Muselean	
		21/22 21/1/1/1 19/61	11 391	H. Walke.			U.S. EFA ID	Number 310	F000752465
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F	acility's Phone: 554-962-99	53		÷	W 39		1		
	9. Waste Shipping Name			1	10. Con	tainers	11. Total	12. Unit	
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5. Generator's Name and Ma	iling Address Eunnali-Lammons Eng. Inc	v v	Generator's Site Address	ENMA	rele as	ess) P()	8
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42	Greendlie, SC 29615	Ĭ	GREENA	LLE SC	· Indian		
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	BLE						
7. Transporter 2 Company N	ame a				U.S. EPA ID	Number	
Necignated Facility Name	and Site Address	Indicant 11 A			U.S. EPA ID		00763468
	305 South Main St. Maulain, SC 32652	gamgat, isa	12	2	a a	@ (437.C)	CELL DEPOSE
Facility's Phone: 854-969-	1953					 	
			10. Con	tainers	11. Total	12. Unit	
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17. Discrepancy					П	2 2 7 2 2 7	Full Rejection
17a. Discrepancy Indication	n Space Quantity	Type 3	Residue Manifest Referen	ce Number:	Partial I	Rejection	L Full Rejection
17b. Alternate Facility (or	Generator)				U.S. EPA	ID Number	REPT. 10
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Faallihde Dhane	Te 9			E 1-11			
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Facility's Phone: 17c. Signature of Alternate							, in the second second
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, supply ()	*		•		353	J.O. E. A.ID	. Turriodi		
3. Designated Facility Name a	nd Site Address A.S. Recovery Si	odces Claderant	ii.č			U,S. EPA ID			3
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August 10, 2007

RECEIVED

South Carolina Department of Health and Environmental Control Southwestern SC Corrective Action Section Underground Storage Tank Program Bureau of Land and Waste Management 2600 Bull St.
Columbia, SC 29201-1708

AUG 10 ZUU/

UNDERGROUND STORAGE
TANK PROGRAM

Attention:

Mr. John D. Abernathy

Hydrogeologist

Subject:

Report of Aggressive Fluid Vapor Recovery

and Groundwater Sampling Former Ryder Truck Terminal

10 Woods Lake Drive

Greenville, Greenville County UST Permit # 11929; CA # 28815 BLE Project No. J07-1010-11

Dear Mr. Abernathy:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has completed an Aggressive Fluid Vapor Recovery (AFVR) event and a subsequent groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated March 16, 2007. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Richard A. Mayer Jr., G.I.T.

Richard a. Marger f

Staff Hydrogeologist

Thomas L. Lammons, P.G.

Principal Hydrogeologist

Registered, South Carolina No.

Trevor J. Benton, P.G.
Project Hydrogeologist

Registered, South Carolina No. 23

2395

CAF

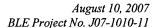
cc:

Mr. Allen Vaughn, 4 East Parker Road, Greenville, SC 29611-1916.

UST PROGRAM
DOCKETING # __

NE (864) 288-1265 (864) 288-4430

6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615





PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Master Keys Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

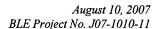
In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and 2006 by BLE to define the extent of petroleum contamination at the site.

Based on the findings presented to SCDHEC in the *Report of Supplemental Environmental Activities*, prepared by BLE (dated August 11, 2006), free-phase petroleum product is present on the site. In an effort to eliminate the presence of free-phase product, SCDHEC requested that an AFVR event be conducted on monitoring wells MW-2 and MW-6. SCDHEC has further requested that a comprehensive groundwater sampling event be conducted at least 30 days after the AFVR event to obtain current groundwater quality data. This report presents the results of our activities.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

On April 26, 2007, an 8-hour AFVR event was conducted in monitoring wells MW-2 and MW-6 on the subject property. A hydrogeologist from BLE, Rick A. Mayer, was on site for observation and monitoring. The AFVR event was performed by Jamie McNeill of GARCO, Inc. of Asheboro, North Carolina (U.S. E.P.A. ID #NCR000135384). Prior to initiating the event, BLE personnel gauged approximately 0.13 feet of free-phase petroleum product in MW-2 and 1.07 feet of free-phase petroleum product in MW-6. Product measurements were made using a Solinst[®] Interface Meter Model 122. Additionally, the depth to groundwater was measured in the monitoring wells adjacent to MW-2 and MW-6. The initial depth to groundwater readings, measured in feet below the top of the PVC well casing (btoc), were 27.61 (MW-1), 26.91 (MW-2D), 24.59 (MW-3R), 24.10 (MW-5), 24.45 (MW-13), 23.92 (MW-14), and 24.11 (MW-15), respectively.

The AFVR event initiated at 08:00 and concluded at 16:00. The general weather conditions observed during this period of time were partly cloudy to mostly cloudy; winds varied between 8 to 16 miles per hour (mph) with an ambient temperature between 63° and 75° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 14.5 to 17.5 inches of mercury was applied to MW-2 and MW-6. The depth to water (feet btoc) measurements were collected every 30 minutes on wells MW-1, MW-2D, MW-3R, MW-5, MW-13, MW-14, and MW-15 to evaluate effective drawdown. Additionally, effluent vapor concentrations were measured by BLE personnel every 30 minutes throughout the event using a MiniRAE® 2000 portable Photo-Ionization Detector (PID) (Model PGM 7600). Gauging data observed during the event is shown in Table 1.





At the completion of the AFVR event, a total volume of 694 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of this total volume, approximately 16 gallons were measured as free-phase petroleum hydrocarbons. The average product recovery rate observed during the event was approximately 2 gallons/hour. Monitoring wells MW-2 and MW-6 were gauged immediately following the conclusion of the event and no free-phase product was observed. The depth to water readings (feet btoc) immediately following the event were 27.77 (MW-1), 27.21 (MW-2D), 25.31 (MW-3R), 24.22 (MW-5), 26.32 (MW-13), 26.54 (MW-14), and 25.77 (MW-15) respectively. Monitoring well MW-14 had a maximum drawdown of 2.62 feet while 1.87 feet was observed in MW-13, 1.66 feet was observed in MW-15, and 0.72 feet was observed in MW-3R. Minimal drawdown was observed in MW-1, MW-2D, and MW-5 (Table 1).

On May 29, 2007, monitoring wells MW-2 and MW-6 were gauged to determine if free-phase petroleum product was present at the site following the AFVR event. BLE personnel detected 0.26 (MW-2) and 0.63 (MW-6) feet of free-phase product respectively. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix A.

GROUNDWATER SAMPLING

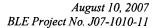
Sixteen groundwater monitoring wells (MW-1, MW-2, MW-2D, MW-3R, and MW-4 through MW-15) are present at the site. Groundwater levels were measured on May 29, 2007 (Table 2). A groundwater elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown as Figure 2.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling. Therefore, only MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix B. The samples were delivered via courier to Pace Analytical, Inc. in Charlotte, North Carolina for analysis (SC Certification #99006) of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and methyl-tertiary-butyl-ether (MTBE) by EPA Method 8260B. Pursuant to SCDHEC's directive, monitoring wells MW-3R, MW-13, MW-14, and MW-15 were additionally sampled for 1,2-dibrmoethane (EDB) by EPA Method 8011. Monitoring well sampling logs and procedures are included in Appendix B. The laboratory data sheets are provided in Appendix C. Concentrations of the chemicals of concern (CoC) for each well is shown on Figure 2. Additionally, historical groundwater laboratory analytical data is provided in Table 3.

Purge water generated during the groundwater sampling event was contained in a sealed 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix A.

GROUNDWATER SAMPLING RESULTS

Monitoring wells MW-2 and MW-6 exhibited 0.26 feet and 0.63 feet of free-phase petroleum product, respectively and therefore were not sampled. Additionally, MW-11 was covered with





debris and was not able to be sampled at this time. Of the thirteen groundwater samples collected for laboratory analysis, four wells (MW-3R, MW-13, MW-14, and MW-15) detected petroleum hydrocarbons above South Carolina Risk-Based Screening Levels¹ (RBSLs). Benzene, Naphthalene, and EDB were detected above the RBSLs in MW-3R, MW-13, MW-14, and MW-15. Additionally, petroleum hydrocarbons detected above the laboratory Method Detection Limit (MDL), but at levels below the RBSL include xylenes (MW-3R, MW-13, MW-14, and MW-15), ethylbenzene (MW-14 and MW-15), toluene (MW-15), and MTBE (MW-12). The remaining monitoring wells (MW-1, MW-2D, MW-4, MW-5, and MW-7 through MW-10) did not detect petroleum hydrocarbons above the laboratory MDL. Based on the laboratory results, concentrations of the detected petroleum hydrocarbons are mainly confined to the source area or slightly downgradient of the source area. The results of the groundwater samples are summarized in Table 3, and are shown on Figure 2. Laboratory data sheets are provided in Appendix C.

RECOMMENDATIONS

Free-phase petroleum product is still present in MW-2 and MW-6 following the completion of the AFVR event. We recommend one additional groundwater monitoring well be installed approximately 20 feet east of MW-15, to be utilized as an additional AFVR extraction point. This new well would be at the midpoint of MW-2 and MW-6 and would be ideal for further recovery of petroleum free-product and dissolved phase CoC. After installation of the new well, we recommend a series of multiple AFVR events be conducted in MW-2, MW-6, and the new well in attempt to remove the remaining free-product from the site. Additionally, approximately one month after completion of the final AFVR event, we recommend a comprehensive groundwater sampling event be performed to evaluate current conditions. The type of petroleum contamination at the site appears to be a mixture of gasoline, diesel, and fuel/waste oil. Due to the presence of fuel/waste oil, we recommend the addition of the 8 RCRA metals to the sampling matrix.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or

¹ South Carolina Risk-Based Corrective Action for Petroleum Releases, Bureau of Land and Waste Management, Underground Storage Tank Program, May 15, 2001.



August 10, 2007 BLE Project No. J07-1010-11

relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

AFVR Gauging Data Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #28815 BLE Project No. J07-1010-11

	Monitoring Well Gauging Data Vacuum Readings Depth to Water (feet BTOC)													
	Vacuum	Readings			Depth to	Water (fee	t BTOC)			Effluent				
Time	MW-2	MW-6	MW-1	MW-2D	MW-3R	MW-5	MW-13	MW-14	MW-15	(ppm)				
0800	14.5 15.0 27.61 26.91 24.59 24.10 24.45 23.92 24.11													
0830	14.5 15.5 27.62 26.97 24.73 24.11 24.90 24.69 24.53													
0900	15.0 16.5 27.63 27.03 24.87 24.12 25.36 25.46 24.98													
0930	15.0	16.5	27.64	27.07	24.97	24.13	25.55	25.85	25.29	53.8				
1000	15.5	16.5	27.66	27.10	25.06	24.14	25.71	26.13	25.44	50.7				
1030	15.5	16.5	27.68	27.12	25.11	24.15	25.84	26.28	25.53	55.7				
1100	15.5	16.5	27.70	27.14	25.14	24.16	25.93	26.37	25.60	60.9				
1130	15.5	17.0	27.72	27.16	25.18	24.17	26.01	26.42	25.66	63.3				
1200	15.5	17.0	27.74	27.17	25.22	24.18	26.08	26.44	25.70	58.2				
1230	15.5	17.0	27.75	27.17	25.25	24.19	26.15	26.46	25.72	62.1				
1300	15.0	17.5	27.75	27.18	25.27	24.20	26.21	26.48	25.73	59.8				
1330	15.0	17.5	27.76	27.18	25.29	24.20	26.25	26.49	25.74	63.4				
1400	15.0	17.5	27.76	27.19	25.30	24.21	26.27	26.50	25.75	61.6				
1430	15.0	17.5	27.76	27.19	25.30	24.21	26.29	26.51	25.75	60.5				
1500	15.0	17.5	27.77	27.20	25.31	24.21	26.30	26.52	25.76	61.9				
1530	15.0	17.5	27.77	27.20	25.31	24.22	26.31	26.53	25.76	62.2				
1600	1600 15.0 17.5 27.77 27.21 25.31 24.22 26.32 26.54 25.77													
Maximum Drawdown (ft)														
	0.16 0.30 0.72 0.12 1.87 2.62 1.66													

NOTES:

AFVR event performed on April 26, 2007.

1.07 feet of petroleum free-product measured in MW-6

0.13 feet of petroleum free-product measured in MW-2

Vapor concentrations measured using a portable MiniRAE® 2000

Photo-Ionization Detector (PID).

Vacuum readings measured in inches of Hg

inches of Hg - inches of mercury

BTOC - below top of casing

ppm - parts per million

Prepared By: RAM Checked By: TJB

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #28815 BLE Project No. J07-1010-11

Boring ID #	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	28.90	26.69	71.80	31.0	21.0 - 31.0	77.5 - 67.5
MW-2*	100.10	100.54	25.36	25.80	74.74	35.0	25.0 - 35.0	75.5 - 65.5
MW-2D	99.29	99.76	27.25	27.73	72.04	54.5	49.5 - 54.5	50.3 - 45.3
MW-3			Wel	l abandoned De	ecember 5, 200)5		
MW-3R	99.00	99.57	24.83	25.40	74.17	32.4	18.5 - 28.5	81.1 - 71.1
MW-4	102.67	102.91	24.71	24.95	77.96	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	24.41	24.65	77.07	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	25.89	26.27	75.85	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	26.48	26.78	66.19	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	23.09	23.20	65.67	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	24.22	24.61	78.04	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	24.32	24.32	80.35	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	N/A	N/A	N/A	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	25.93	26.23	75.45	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	24.20	24.53	74.42	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	24.22	24.75	75.08	32.0	21.8 - 31.8	78.0 - 68.0
MW-15	100.39	100.58	24.41	24.60	75.98	33.5	23.3 - 33.3	77.3 - 67.3

NOTES:

Groundwater levels were measured on May 29, 2007

Measurements are in feet; elevations are relative to an arbitrary site datum.

Groundwater elevation data for MW-2 and MW-6 has been corrected for free-product thickness using a density of 0.70 g/cc.

MW-11 was covered by debris and unable to be sampled during this event

btoc = below top of casing

bgs = below ground surface

Prepared By: TJB Checked By: RAM

^{*}Petroleum free product was measured in MW-2 (0.26') & MW-6 (0.63') on 5/29/07

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS Detected Compounds Only Former Ryder Truck Terminal Greavalle, South Carolina UST Brank #1029-C Oast Agroment #28815 BILE Project No. 407-4104-11

Accoleun Free Product Petrane Folianes Folianes Elity Renorme Elity Renorme Elity Renorme Standard Act dwin I et de (MTBE) Mandhalare Dig Dig Pasantone Teanandrene Teanandrene Teanandrene Teanandrene Teanandrene Teanandrene Teanandrene	Compound		Dissolved Oxygen	Nitrate	Ferrous Iron	Filtered Lead		PH (DRO)	Vaphthalene	Phenanthrene	Jaorette	Gensolithene	EDB	Naphinalene	Methyl-tert-butyl-ether (MTBE)	Cylenes, Lotal	Ethylbenzene	foluene	denzene	etroleum Froe Product		Compound		
82,60B 82,60B 82,60B 82,60B 82,60B 82,60B 82,60B 82,70C 82	EPA Method		field test	9056	3500D	7421	7/71	801SB	8270C	8270C	8270C	30705	1108	ł	F	╀	8260B	8260B	\$260B	- NA	Method	£PA		
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44444444	90911901		6.2	3	3,200	38		4	4	43	42		3	å	3.1	ð	4	3 5	1	AN	3/29/1999			
	7/5/2001		292 E	2.04	3,830	33		4	4	33	12		Ŋ	3	Ð	ð	3	3 3		Ä	7/5/2001			
 	Date Sampled	Y.W.W	35	ş	5,240	46		Ą	4	¥ 2	3	i	3	ð	1.2	A G	3	3 :		Н	/28/2003	Date Sampled	MW-2D	
	8		33	3	3	33		Ŋ	4	43	13		4	ð	3.7	Ð	3	38	j	Н	2	sted	•	
	7000005		Ŧ	H		3		4		+	ł						3	+		+	/20/2005 2/2			
434 43444 4344446	- 1		ł	H	+	33		4	+	+	t						3	+		ΝΑ	_			
	110 2000/2017	-	ł		-	44		Y.	+	+	+		-				3	2000		Н	5/29/2007 2/10	-		
	0/14/1999 7/4		+	H	+	38		NT Z	+	+	+		H		Н	Н	19.3				V10/1998 3/2s			
] [+		+	33		IN	+	+	+			-		_	X .	+			3/29/1999 7/5/			
	Date Sample	,	+		+	33		NI NI	+	1	ł		H				N I	+		0.04 0.1	4	Date Samples	L-WW	
] " [+		+	44		T N	+	+	ł		X.	-			A :	+		m	П	ampled	¥-3	
	202008 202000		+		+	33		מא	+	+	t		H	_			4	+		H	2/2/2004 1/20/2			
	non connor		7 F	- T	A	7 7		T	A :	7	T A		[-	T .	۲	Ā	7	1		H	/20/2005 2/23/2006			
333333333333333333333333333333333333333	8		I]	ľ	ľ							I			2000			

Petro Benn Tolu Ethy Xyle Met d Met

•	ng)* miligrans' approximate Parts Per Milition (ppm) Staded cells indicate transcraminate show BPSI (*
	A = Abardoned
•	NA = Not Applicable
	ND = Not Detected at the Method Detection Limit
	NT = Not Tested
	NE = No Established Values for RBSL

ERSL. – Picks Based Streiting Level.

BRSL. – Picks Based Streiting Level.

Normalizing with MrV-3 was damaged (object in well) prior to the 22/04 sampling event; therefore no potentiaring with MrV-3 was damaged. The well was abundoned on 12/5/05.

Petroleum free-product was present only in MrV-6 during this sampling event.

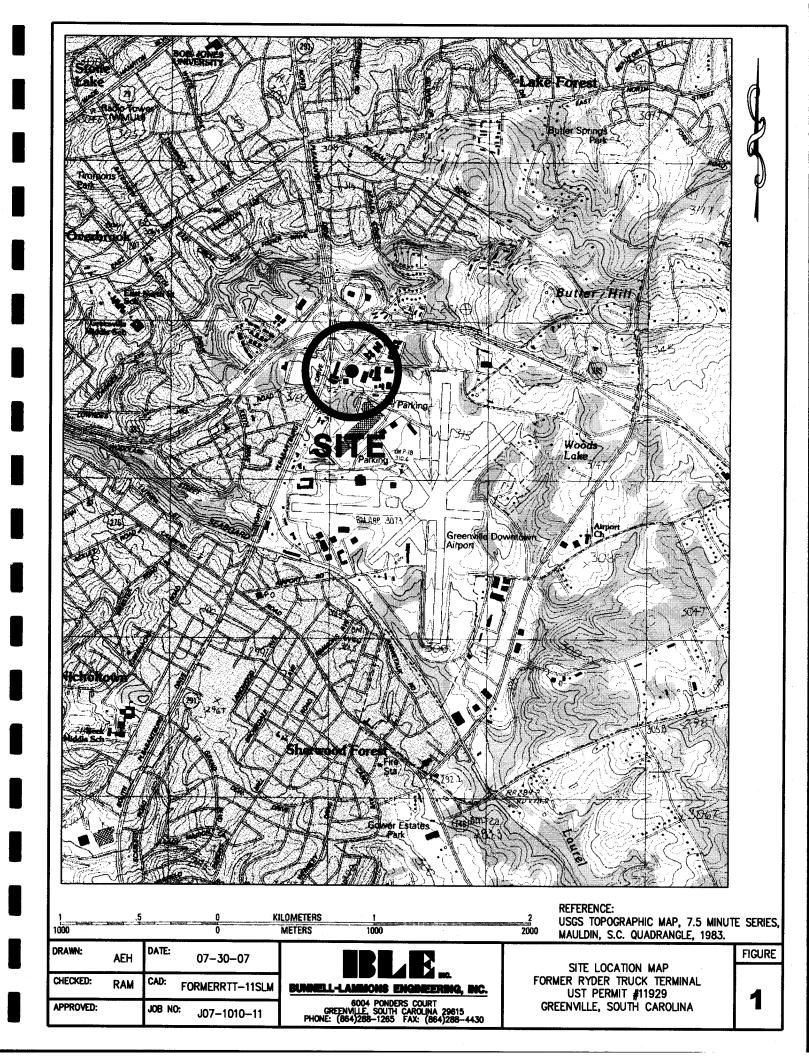
TABLE 3 - CONTINUED

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Detected Compounds Only
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Octo Agreement #28815
BLE Project No. 407-1010-11

Compound		Petroleum Free Product	Benzene	Toluene	Ethylbenzene	Xylenes, Total	Methyl-tert-butyl-ether (MTBE)	Naphthalene	EDB	Acenaphthalene	Fluorene	nenanturene	Naphmaiene	IPH (UKU)		Eiltered I and	Garroup From	Nitrata Nitrata	I Music	omiaic	Dissolved Oxygen
EPA	Method	NA	8260B	8260B	8260B	8260B	8260B	8260B	8011	8270C	8270C	8270C	8270C	80108	100	742	1000	2000	9000	9000	field test
Units	⊢	feet	μgΛ	1/811	μg/l		_	μgΛ	µg/l	μgΛ	Ман	1/84	1/84	μg/1		1/8/1	100	1891	mg/i	mg/l	mg/l
RBSL		NA	۵.	1,000	700	10,000	40	25	0.05	R	Ä	N.	25	NE		10	i	18	18	2	NE -
	715/1999	NA	Ð	A	8	ğ	ā	ð	4	4	Y	Ŋ	N	Y		18		220	0.00	E	4.3
	7/5/2001	X.	Ē	Ð	Ą	ğ	ğ	Ð	P	Ŋ	Ą	4	Ŋ	Ŋ		12	1	3 5	0.58	E	N
Dı	/28/2003	NA	ð	ā	Ą	ğ	ð	Ð	Ŋ	3	3	3	Ŋ	Ŋ		i		2	0.83	3.10	Ŋ
MW-8 Date Sampled	2/2/2004	X	Ą	Ą	Ð	3	ĕ	Ð	N	3	3	Ŋ	NI	Ŋ	i	Z		2	2	Z	Ŋ
	1/20/2005	X	ğ	Ą	Ą	8	ğ	Ð	Ą	4	3	3	3	Ŋ		Z	i	2	0.04	N	4.62
	2/24/2006	AN	¥	¥	ð	ğ	ð	ğ	Ą	Ŋ	3	3	4	N		Z	1	2	N	NI	3.78
	5/29/2007	AN	ğ	ğ	ğ	3	3	¥	3	N	I	4	Ä	3		Z	12	Z	Z	Ŋ	1.89
	2/3/2004	AN	ğ	ğ	ğ	ğ	3	ğ	₹	NT	Ŋ	IN	Ą	NI		14.0	N	N	Z	3	NI
Date:	1/20/2005	Y.	ğ	ğ	ğ	3	3	ğ	ğ	Ŋ	Ŋ	NT	Ą	NT		N	2	IN	0.78	Ą	3.98
MW-9 Date Sampled	2/23/2006	-1	ğ	ğ	3	S	3	ğ	ğ	NI	Ŋ	N	3	N		N	N	3	N	IN	4.95
	5/29/2007	1	S.	ğ	ğ	3	3	ğ	3	Ŋ	Ŋ	4	Ŋ	3		1	N	3	Z	Y.	5.69
	7 2/2/2004	1	ĕ	3	ğ	3 8	S	ğ	ğ	IN	IN	Ŋ	Ŋ	N		ğ	2	IN	H	4	NI
Đ	1/20/2005	+	ĕ	ĕ	¥.	3 8	3	¥	ŧ	N	IN	Ŋ	4	Ŋ		3	3	3	0.85	¥	4.50
MW-10 Date Sampled	5 2/24/2006	-	3	3	8	38	3	3	3	IN	NT	3	N	Ą		3	2	H	Į.	3	2.37
	\dashv	+	Š	S	3	38	36	S S	3	IN	4	3	N	3		3	2	Y.	Y.	3	2.27
	+	NA.		1	1	36	1	1	1				N		×	5.0	ı	T	Г	Г	r
	1/20/	+	N C		N C	3 8	3 8	N I	S I	N	N	Ŋ	I.	Y		N	N	3	1.20	1.20	3.26
MW-11 Date Sampled	005 2/24/2006	4	_	+	-	3 8	+	1		Ľ	3	3	IN	3		N,	Z	3	3	Z	2.78
	006 5/29/2007	1	-	+	+	41:	+	-	-	_			IN.			YI,					
		NA A	-	+	+	3 8	-	+	+	_	-	_	N N			7		L	-		
MW-12 Date Sampled			-	+	-	-	+		-	-						T					
-	2007	1		-	+	-	+			_		_		_		l			L	L	Н
MW-13 Date Sampled	2/24 & 3/13/2006 5/29	- 1.		98701E-01000		5 6	+			-		_	7			NI NI	_	_	L		Н
-	2007	4		2000	+	8 8	+			-			N,			3				_	Н
MW-14 Date Sampled	224 & VI 1200K 5/2	- 1		200000000000000000000000000000000000000	-	600	†			-	-		59.0	-							1.52 0
ă.	2007	4			-	700	+			-	+	-	3			Ŋ			_	_	H
MW-15 Date Sampled	/S SOUCKIN # PCC	- 1		2000	1	160	+			ğ	7.4	6.7	230	\$200		Ŋ		L	L		H
2	\$/29/2007		8	120	21	240	3	9	2	Z	3	3	3	3		Ŋ	Z	Ŋ	3	3	0.38

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FIGURES



APPENDIX A

WASTE TRANSPORTATION AND DISPOSAL RECORDS

GARCO, Inc.

Environmental, Industrial & Recycling Services

Certificate of Disposal

GENERATOR: Former Ryder Truck Facility 10 Woods Lake Drive

Greenville, SC

MATERIAL ACCEPTED:

DISPOSAL METHOD:

1 - Vacuum Truck(s) - (694 - gal.) - Non-Hazardous Materials - Purge Water Waste Water Treatment

GARCO, Inc. accepted the above listed materials on 04/27/2007.

GARCO, Inc. has accepted custody of the above referenced non-hazardous material. This material has been determined to be non-hazardous by a material profile, generator knowledge, and/or analytical data provided to GARCO, Inc..

Greg Russell President

GARCO, Inc. NON-HAZARDOUS WASTE MANIFEST

Please print or type

NON-HAZARDOUS WASTE MANIF	EST		Manifest Document N		2 Page 1 of
3. Generator's Name and Mailing Address	Former Ryder Truck Facility 10 Woods Lake Drive		1. Generator's US El	PA ID No.	
	Greenville, SC		4. Generator's Phone	2	
5. Transporter 1 Company Name	6. US E	PA ID No.	B. Transporter 1 Pho	ne	
GARCO, Inc.		R000135384		(336) 683-0911	
7. Transporter 2 Company Name	B. US E	PA ID No.	D. Transporter 2 Pho	ne	
9. Designated Facility Name and Site Address	CARCO, IIIC.		10. US EPA ID Numbe		
	2503 N. Fayetteville St.			NCR000135384	
·	Asheboro, NC 27203		F. Facility's Phone	(336) 683-0911	
Marke Describing		12. Con	tainers	13. Total	14 Unit
11. Waste Description		No.	Туре	Quantity	Wt./Vol.
A) Non-Hazardous Materials		1	Vacuum Truck	694	G
B)					·
C)					
D)					
G. Additional Descriptions for Materials Listed	Above		•		
A) Purge Water	C)				
В)	D)				
15. Special Handling Instructions and Additional	Information				
24 Hour ER# 800-81	4-1204				
18. GENERATOR'S CERTIFICATION: I hereby certi in proper condition for transport. The materials					
					Date
Printed/Typed Name As agent RICK Mayer Former		MC	P Ma	M/	onth Day Year
17. Transporter 1 Acknowledgement of Receipt			(7	Date
Printed/Typed Name	Signature	1300			lonth Day Year
Jame Mentell	of Materials	railm			4 26 07
18. Transporter 2 Acknowledgement of Receipt Printed/Typed Name				1.1	Date Ionth Day Year
Finited Lyped Name	Signature				lonth Day Year
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of	receipt for waste materials covered	by this manifes	t, except as noted abo	ve.	6
Printed/Fyged Name	Signatura			M	Date onth Day Year
vennis (rancer	Signature LLON	nis hi	MACA	W	4 27 07

Client:

Greenville S.C. Site:

Date:

of

Page

Site Contact: RUK Mayed

contant Ind

Time leaving GARCO: 0700

Arrival time @ site: 0730

AFVR start time: 0860

MW#				1				
MW#								
MW#								
#MW#								
, MW# 6	15/2	,×,	7	7	7	15.	15	,
₩ #W	20	20	20	20	2	20	02	
Anemometer Reading ff/min	2680	3870	3739	5837	4093	2504	1884	
Humid	13.6	14.5	14.2	14.7/	14.5	14.2	14.1	
Temp	145.0	1670	172.4	1.02/	167.8	167.9	1755	17.5
HG	on muck	20	70	20	92	02	072	
	0880	0969	1000	1100	0021	0081	1400	- 1
	Readings: Start	Readings: Time:	Time:	Time:	Time:	Time:	Time:	

1600 *AFVR stop time:

Total volume generated from AFVR:

GARCO, Inc. operator:

Vacuum Truck#

Product recovered:

20

1500 1600

Time: Time:

Excalibur Environmental Services, Inc. PO Box 1751 Simpsonville, South Carolina 29680 (864) 967-9744

NON-HAZARDOUS VIRGIN PETROLEUM-IMPACTED MONITOR WELL PURGE WATER TREATMENT MANIFEST

133	
Mr. Trevor Benton, PG BLE, Inc. 6004 Ponders Court Greenville, SC 29615	
Estate of Robert B. Vaugh 4 East Parker Road Greenville, SC	nn / Mr. Allen Vaughn
Former Ryder Truck Term 10 Woods Lake Drive Greenville, SC	ninal
UST System Release 11929	
ontainer (s) / Volume (g) 📑	- i reatment
ontainer (s) // Volume (g)	Treatment ** *GAC
1 drum	*GAC at the waste material is gulations.
1 drum nit y and accurately described, the to federal hazardous waste reg	*GAC at the waste material is gulations.
	Mr. Trevor Benton, PG BLE, Inc. 6004 Ponders Court Greenville, SC 29615 Estate of Robert B. Vaugh 4 East Parker Road Greenville, SC Former Ryder Truck Term 10 Woods Lake Drive Greenville, SC UST System Release 11929

APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX B - CONTINUED

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged only if the well screen did not bracket the water table. Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon[®] lined lids and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and delivered via courier to Pace Analytical, Inc. in Charlotte, North Carolina for analysis.



Page 1 of 16

Facility Name: Former Ryder Truck Terminal Facility ID#: UST Permit #11929 Well #: MW-1	Well Diameter (D): 2 inch of 31.00 feet	Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness: N/A feet	GW) 28.90	LWC=TWD-DGW)		The sing Volume (CV = LWC X C) = $\times 0.17$ = gals	3 Casing Volume 3 X CV = gals (standard purge volume)		Total Volume of Water Purged Before Sampling N/A gals.	*If free product is present over 1/8 inch, sampling will not be required.
May 29, 2007 Terence Livingston	Sunny	J. (Quality Assurance	Conductivity Meter YSI 30/10 serial no. 97A0751AD		standard	standard		Chain of Custody	Pace Analytical 5/31 / 0930	
Date (mm/dd/yy): Field Personnel:	General Weather Conditions:	Ambient Air Temperature: 30	Quality A	ir pH strips					<u>Chain of</u>	T. Benton 5/30 / 1700	hq
Date (m Field P€	Genera	Ambien		pH Meter serial no.	pH=4.0	pH=7.0	pH=10.0			E	Relinc

	Initial	1 st Vol	1 st Vol 2 nd Vol 3 rd Vol 5 th Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0						
Time (military)	1330						
pH (s.u.)	5.34						
Specific Cond. (µmhos/cm)	0.97						
Water Temperature (°C)	19.3						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy						
Dissolved Oxygen Readings (mg/L)	5.32						

Remarks: Well sampled on 5/29/07 at 1330.



16	
₹	
7	
Page	

Date (mm/dd/yy):		May 29, 2007		Facility Name:	Former Ryder Truck Terminal	ck Terminal
Field Personnel:		Terence Livingston		Facility ID#: UST Pen	UST Permit #11929 Well #:	MW-2
General Weather Conditions:	litions:	Sunny				
				Well Diameter (U): 2	inch of 35.00	00 feet
Ambient Air Temperature:		30 C		Conversion factor (C): $3.14 \text{ X} (D/2)^2$ for a 2 inch well $C = 0.163$	$X (D/2)^2$ for a 2 inch w.	all C = 0.163
					(5/2) for a 2 inch well C = 0.652 for a 4 inch well C = 0.652	ell C = 0.652
	Quality	Quality Assurance				
				*Free Product Thickness:	0.26 feet	·
pH Meter		Conductivity Meter YSI 30/10	YSI 30/10	Depth to Ground Water (DGW)	3W) 25.36 feet	•
serial no.		serial no. 97A	97A0751AD	Total Well Depth (TWD)	35.00 feet	•
pH=4.0		standard		Length of Water Column (LWC=TWD-DGW)	WC=TWD-DGW)	9.64 feet
pH=7.0		standard				
pH=10.0		standard		1 Casing Volume (CV = LWC X C) =		X 0.17 = gals
				3 Casing Volume 3 X CV =		gals (standard purge volume)
	Chain c	Chain of Custody				
				Total Volume of Water Purged Before Sampling N/A	ged Before Sampling	N/A gals.
Relinquished by	Date/Time	Received by	Date/Time	*If free product is present over 1/8 inch, sampling will not be required.	ver 1/8 inch, sampling v	will not be required.

	Initial	1 st Vol	1 st Vol 2 nd Vol 3 rd Vol 5 th Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)							
Time (military)					-		
pH (s.u.)							
Specific Cond. (µmhos/cm)							
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen Readings (mg/L)							

Remarks: Petroleum free product present. Well not sampled. Water level has been corrected for free product thickness using a density of 0.70 g/cc.



Page 3 of 16

Facility Name: Former Ryder Truck Terminal	Facility ID#: UST Permit #11929 Well #: MW-2D	Well Diameter (D): 2 inch of \$4.50 feet	24.30	Conversion factor (C): $3.14 \times (0.7)^2$ for a 2 inch well C = 0.163	for a 4 inch well C = 0.652		*Free Product Thickness: N/A Feet	Depth to Ground Water (DGW) 27.25 Feet	Total Well Depth (TWD) 54.50 Feet	Length of Water Column (LWC=TWD-DGW) 27.25 Feet		1 Casing Volume (CV = LWC X C) = 27.25 X 0.17 = 4.63 gi	3 Casing Volume 3 X CV = 13.89 gals (standard purge volume)		Total Volume of Water Purged Before Sampling 15 gals.		*If free product is present over 1/8 inch, sampling will not be required.
<u></u>	ш.		<u> </u>)		*					_	<u>ო</u>		_		*
								YSI 30/10	97A0751AD							5/31 / 0930	Date/Time
May 29, 2007	Terence Livingston	Sunny		ပ္		Quality Assurance		Conductivity Meter YSI 30/10	serial no. 97,	standard	standard	standard		Custody		Pace Analytical	Received by
		onditions:		erature: 30		Quality A		pH strips						Chain of Custody		5/30 / 1700	Date/Time
Date (mm/dd/yy):	Field Personnel:	General Weather Conditions:		Ambient Air Temperature				pH Meter	serial no.	pH=4.0	pH=7.0	pH=10.0				T. Benton	Relinquished by

	Initial	1 st Vol	1 st Vol 2 nd Vol 3 rd Vol 5 th Vol	3rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0	5	10	15			
Time (military)	1350	1401	1411	1430			
pH (s.u.)	5.67	5.93	80.9	6.10			
Specific Cond. (µmhos/cm)	99.5	127.5	125.3	128.3			
Water Temperature (°C)	20.5	19.9	21.3	21.1			
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear			
Dissolved Oxygen Readings (mg/L)	3.64						

Remarks: Well sampled on 5/29/07 at 1430.

DHEC 3529 (11/1997)



Page 4 of 16

Facility Name: Former Ryder Truck Terminal Facility ID#: UST Permit #11929 Well #: MW-3R	Well Diameter (D): 2 inch of 32.35 feet	Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness: N/A feet	GW) 24.83	feet	1 Casing Volume $(CV = LWC \times C) = X 0.17 = gals$	3 Casing Volume 3 X CV = gals (standard purge volume)	Total Volume of Water Purged Before Sampling gals.	*If free product is present over 1/8 inch, sampling will not be required.
Date (mm/dd/yy):May 29, 2007Field Personnel:Terence Livingston	General Weather Conditions:	Ambient Air Temperature: 30 °C	Quality Assurance	Conductivity Me	serial no. 97A0751AD standard standard	pH=10.0	Chain of Custody	T. Benton 5/30 / 1700 Pace Analytical 5/31 / 0930	

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 4th Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0						
Time (military)	1225						
pH (s.u.)	5.15						
Specific Cond. (µmhos/cm)	30.1				THE PARTY OF THE P		
Water Temperature (°C)	20.3						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Slight						
Dissolved Oxygen Readings (mg/L)	2.02						
					,		

Remarks: Well sampled on 5/29/07 at 1225.



Page 5 of 16

Former Ryder Truck Te	Conversion factor (C): 3.14 X (D/2) ² for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness: N/A feet Depth to Ground Water (DGW) 24.71 feet Total Well Depth (TWD) 29.50 feet Length of Water Column (LWC=TWD-DGW) 4.79 feet	1 Casing Volume (CV = LWC X C) = $\begin{array}{c} X & 0.17 \\ \hline 3 \text{ Casing Volume } 3 \text{ X CV} = \\ \hline \end{array}$ gals (standard purge volume)	Total Volume of Water Purged Before Sampling N/A gals. *If free product is present over 1/8 inch, sampling will not be required.
Date (mm/dd/yy):May 29, 2007Field Personnel:Terence LivingstonGeneral Weather Conditions:Sunny	Ambient Air Temperature: 30 °C	er pH strips	pn=7.0 pn=7.0 ph=10.0 Standard Standard Chain of Custody	T. Benton 5/30 / 1700 Pace Analytical 5/31 / 0930 Relinquished by Date/Time Received by Date/Time

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 4th Vol	3rd Vol	4 th Vol	5 th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	0							Ī
Time (military)	1320							
рН (s.u.)	5.00							T
Specific Cond. (µmhos/cm)	40.6							1
Water Temperature (°C)	22.6							Ī
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	69.0							T
					1			

Remarks: Well sampled on 5/29/07 at 1320.

DHEC 3529 (11/1997)



Page 6 of 16

Facility Name: Former Ryder Truck Terminal	Facility ID#: UST Permit #11929 Well #: MW-5		Well Diameter (D): 2 inch of 29.00 feet	Conversion factor (C): $3.44 \times (D/2)^2$ for a 2 inch wall C = 0.462	for a 4 inch well C = 0.652		*Free Product Thickness: N/A feet	Depth to Ground Water (DGW) 24.41 feet	Total Well Depth (TWD) 29.00 feet	Length of Water Column (LWC=TWD-DGW) 4 59 feet		1 Casing Volume (CV = LWC \times C) = \times 0.17 = gals	3 Casing Volume 3 X CV = gals (standard purge volume)		Total Volume of Water Purged Before Sampling N/A gals.	*If free product is present over 1/8 inch, sampling will not be required.	
May 29, 2007	Terence Livingston	Sunny		30 °C		Quality Assurance	1	Conductivity Meter YSI 30/10	serial no. 97A0751AD	standard	standard	standard		Chain of Custody	00 Pace Analytical \$/21 / 0020	Received by	
Date (mm/dd/yy):	Field Personnel:	General Weather Conditions:		Ambient Air Temperature:		Qual		pH Meter pH strips	serial no.	pH=4.0	pH=7.0	pH=10.0		Chai	T Benton 5/30 / 1700	by	

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 4th Vol	3 rd Vol	4 th Vol	5 th Vol	Post Samuling
Cumulative Volume Purged (gallons)	0						
Time (military)	1305						
pH (s.u.)	5.50						
Specific Cond. (µmhos/cm)	118.2						
Water Temperature (°C)	22.5						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Slight						
Dissolved Oxygen Readings (mg/L)	09.0						

Remarks: Well sampled on 5/29/07 at 1305.



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Date (mm/dd/yy):		May 29, 2007		Facility Name: Former Ryder Truck Terminal
Field Personnel:	L	Terence Livingston		Facility ID#: UST Permit #11929 Well #: MW-6
General Weather Conditions:	nditions:	Sunny		
				Well Diameter (D): 2 inch of 29.50 feet
Ambient Air Temperature	ature: 30	၁ ၂		Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163
				for a 4 inch well C = 0.652
	Quality Assurance	ssurance		
				+Free Product Thickness: 0.63 feet
pH Meter		Conductivity Meter Y	YSI 30/10	Depth to Ground Water (DGW) 25.89 feet
serial no.		serial no. 97A0	97A0751AD	Total Well Depth (TWD) 29.50 feet
pH=4.0		standard		Length of Water Column (LWC=TWD-DGW) 3.61 feet
pH=7.0		standard		
pH=10.0		standard		1 Casing Volume (CV = LWC \times C) = \times 0.17 = gals
				3 Casing Volume 3 X CV = gals (standard purge volume)
	Chain of Custody	Custody		
			<u> </u>	Total Volume of Water Purged Before Sampling N/A gals.
Relinquished by	Date/Time	Received by	Date/Time	*If free product is present over 1/8 inch, sampling will not be required.

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 5th Vol 5th Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)							
Time (military)							
pH (s.u.)							
Specific Cond. (µmhos/cm)							
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen Readings (mg/L)							

Remarks: Petroleum free product present. Well not sampled. Water level has been corrected for free product thickness using a density of 0.70 g/cc.



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Facility Name: Former Ryder Truck Terminal	Facility ID#: UST Permit #11929 Well #: MW-7		Well Diameter (U): 2 inch of 32.80 teet	Conversion factor (C): $3.44 \times (0/0)^2$ for a 2 inch well C = 0.463	for a 4 inch well $C = 0.103$		*Free Product Thickness: N/A feet	Depth to Ground Water (DGW) 26.48 feet	Total Well Depth (TWD) 32.80 feet	Length of Water Column (LWC=TWD-DGW) 6,32 feet		1 Casing Volume (CV = LWC \times C) = \times 0.17 = gals	3 Casing Volume 3 X CV = gals (standard purge volume)		Total Volume of Water Purged Before Sampling N/A gals.		*If free product is present over 1/8 inch, sampling will not be required.
May 29, 2007	Terence Livingston	Sunny		30 °C		Quality Assurance		Conductivity Meter YSI 30/10	serial no. 97A0751AD	standard	standard	standard		Chain of Custody		00 Pace Analytical 5/31 / 0930	e Received by Date/Time
Date (mm/dd/yy):	Field Personnel:	General Weather Conditions:		Ambient Air Temperature:		Qual		pH Meter pH strips	serial no.	pH=4.0	pH=7.0	pH=10.0		Chai		T. Benton 5/30 / 1700	Relinquished by Date/Time

	Initial	1 st Vol	2 nd Vol	3 rd Vol	1st Vol 2 nd Vol 3 rd Vol 5 th Vol 5 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0						
Time (military)	1050						
pH(s.u.)	5.65						
Specific Cond. (µmhos/cm)	79.4						
Water Temperature (°C)	21.0						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear						
Dissolved Oxygen Readings (mg/L)	3.16						

Remarks: Well sampled on 5/29/07 at 1050.



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Former Ryder Truck Terminal	UST Permit #11929 Well #: MW-8	(D): 2 inch of 29.80 feet	Conversion factor (C): 3.14 X (D/2) ² for a 2 inch well C = 0.163	for a 4 inch well C = 0.652	Thickness: N/A feet	Depth to Ground Water (DGW) 23.09 feet	th (TWD) 29.80 feet	Length of Water Column (LWC=TWD-DGW) 6.71 feet		1 Casing Volume (CV = LWC X C) = X 0.17 = gals	me 3 X CV = gals (standard purge volume)		Total Volume of Water Purged Before Sampling N/A gals.	*If free product is present over 1/8 inch, sampling will not be required.	
Facility Name:	Facility ID#:	Well Diameter (D):	Conversion fa		*Free Product Thickness:	Depth to Grou	Total Well Depth (TWD)	Length of Wat		1 Casing Volu	3 Casing Volume 3 X CV =		Total Volume	*If free produc	
						YSI 30/10	97A0751AD						0000	Date/Time	
May 29, 2007	Terence Livingston	Sunny	၁့ ြ	Ousliky Assurance		Conductivity Meter YSI 30/10	serial no. 97,	standard	standard	standard		Chain of Custody	D 4 0	Received by	
		onditions:	rature: 30	A vilei		pH strips						Chain of	00000	Date/Time	
Date (mm/dd/yy):	Field Personnel:	General Weather Conditions:	Ambient Air Temperature:			pH Meter	serial no.	pH=4.0	pH=7.0	pH=10.0			T Doutes	Relinquished by	

	Initial	1 st Vol	1 st Voi 2 nd Voi 3 rd Voi 5 th Voi	3 rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0						
Time (military)	1055						
pH (s.u.)	4.85						
Specific Cond. (μmhos/cm)	34.6						
Water Temperature (°C)	22.4						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear						
Dissolved Oxygen Readings (mg/L)	1.89						

Remarks: Well sampled on 5/29/07 at 1055.



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Facility Name: Former Ryder Truck Terminal Facility ID#: UST Permit #11929 Well #: MW-9	Well Diameter (D): 2 inch of 30.70 feet	Conversion factor (C): $3.14 \times (D/2)^2$ for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness : N/A feet	GW) 24.22	LWC=TWD-DGW)		1 Casing Volume (CV = LWC \times C) = \times 0.17 = gals	3 Casing Volume 3 X CV = gals (standard purge volume)		Total volutile of water Furged before sampling IN/A gais.	*If free product is present over 1/8 inch, sampling will not be required.
May 29, 2007 Terence Livingston	Sunny	5 . 0	Quality Assurance	Conductivity Meter YSI 30/10 serial no. 97A0751AD		standard	standard		Chain of Custody	Pace Analytical 5/31 / 0930	Received by Date/Time
Date (mm/dd/yy): Field Personnel:	General Weather Conditions:	Ambient Air Temperature: 30	Quality A	pH Meter pH strips serial no.	pH=4.0	pH=7.0	pH=10.0		Chain of	T. Benton 5/30 / 1700	Relinquished by Date/Time

	Initial	1 st Vol	1 st Vol 2 nd Vol 3 rd Vol 5 th Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0						
Time (military)	1250						
pH (s.u.)	5.06						
Specific Cond. (µmhos/cm)	37.4		4 to 1 to				
Water Temperature (°C)	20.6						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear						
Dissolved Oxygen Readings (mg/L)	5.69						

Remarks: Well sampled on 5/29/07 at 1250.



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Facility Name: Former Ryder Truck Terminal Facility ID#: UST Permit #11929 Well #: MW-10	r (D): 2 inch of 30.10 fee	C): 3.14 X (D/2) ²	Tor a 4 incl	Depth to Ground Water (DGW) 24.32 feet Total Well Denth (TMD) 30.10 feet	(LWC=TWD-DGW)	1 Casing Volume (CV = LWC X C) = $X = 0.17 = gals$	3 Casing Volume 3 X CV = gals (standard purge volume)	Total Volume of Water Purged Before Sampling N/A gals.	*If free product is present over 1/8 inch, sampling will not be required.
May 29, 2007 Terence Livinoston	Sunny	30 °C	Quality Assurance	Conductivity Meter YSI 30/10 serial no. 97A0751AD		standard	Chain of Custody	00 Pace Analytical 5/31 / 0930	Received by
Date (mm/dd/yy): Field Personnel:	General Weather Conditions:	Ambient Air Temperature:	Quali	pH Meter pH strips serial no.	pH=4.0	pH=7.0 pH=10.0	Chai	T. Benton 5/30 / 1700	Relinquished by Date/Time

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 4th Vol 5th Vol	3 rd Vol	4 th Vol	5th Vol	Post Sampling
Cumulative Volume Purged (gallons)							
Time (military)	1445						
pH (s.u.)	4.81						
Specific Cond. (µmhos/cm)	58.0						
Water Temperature (°C)	22.6						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy						
Dissolved Oxygen Readings (mg/L)	2.27						

Remarks: Well sampled on 5/29/07 at 1445.



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			_						
Date (mm/dd/yy):		May 29, 2007		Facility Name:		Former Ryc	Former Ryder Truck Terminal	rminal	
Field Personnel:		Terence Livingston		Facility ID#:	UST Permit #11929		Well #:	MW-11	
General Weather Conditions:	ditions:	Sunny		Well Diameter (D):): 2	inch of	inch of 31.00	feet	1
Ambient Air Temperature:	ure: 30	ပ္စ		Conversion factor (C): 3.14 X (D/2) ² for a 2 inch well C = 0.163	(C): 3.14 X (I	7/2) ² for a 2	for a 2 inch well C = 0.163	= 0.163	
	Quality Assurance	urance				<u>0</u>) M = 1011	- 0.032	
o.	pH strips	Conductivity Meter YSI 30/10 serial no. 97A0751AD		*Free Product Thickness: N/A Depth to Ground Water (DGW) NA Total Well Depth (TWD) 31.00	ickness: Water (DGW) (TWD)	N/A NA 31.00	feet		
pH=4.0 pH=7.0		standard standard		Length of Water Column (LWC=TWD-DGW)	Solumn (LWC	=TWD-DGW	1	feet	
pH=10.0		standard		1 Casing Volume (CV = LWC X C) =	(CV = LWC X)	 (C)	X 0.17	= gals	
	Chain of Custody	ustody		3 Casing Volume 3 X CV =	3 X CV =		als (standard	gals (standard purge volume)	
				Total Volume of Water Purged Before Sampling	Vater Purged	3efore Sam	pling N/A	4 gals.	
Relinquished by	Date/Time	Received by Date/Time		*If free product is present over 1/8 inch, sampling will not be required.	present over	I/8 inch, sar	npling will n	ot be required.	
							***************************************		П
			Initial	1 st Vol 2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling	
Cumulative Volume Purged (gallons)	rged (gallons)				-				
Time (military)					A STATE OF THE STA				7
pH (s.u.)									T
Specific Cond. (µmhos/cm)	(cm)								7
Water Temperature (°C)	(;								
Turbidity (subjective: clear, slightly cloudy, cloudy)	ear, slightly cloud	dv. cloudv)							-

Remarks: Well covered by debris and unable to be sampled.

Dissolved Oxygen Readings (mg/L)



Page 13 of 16

e: Former Ryder Truck Termin	Facility ID#: UST Permit #11929 Well #: MW-12	Well Diameter (D): 2 inch of 30.15 feet	Conversion factor (C): 3.14 Y (D/2) ² for a 2 inch well C = 0.452	for a 4 inch well $C = 0.165$		*Free Product Thickness: N/A feet	Depth to Ground Water (DGW) 25.93 feet	Total Well Depth (TWD) 30.90 feet	Length of Water Column (LWC=TWD-DGW) 4 97 feet		1 Casing Volume (CV = LWC \times C) = \times 0.17 = gal	3 Casing Volume 3 X CV = gals (standard purge volume)		Total Volume of Water Purged Before Sampling gals.		*If free product is present over 1/8 inch, sampling will not be required.
May 29, 2007	l erence Livingston	Sunny	30 °C		Quality Assurance	-	Conductivity Meter YSI 30/10	serial no. 97A0751AD	standard	standard	standard		Chain of Custody		Pace Analytical 5/31 / 0930	Received by Date/Time
dd/yy):	Field Personnel: General Weather Conditions:	catilei Coliditiolis.	Ambient Air Temperature:	:	Quality		pH strips						<u>Chain c</u>			hed by Date/Time
Date (mm/dd/yy):	General W		Ambient A				pH Meter	serial no.	pH=4.0	pH=7.0	pH=10.0			E	I. Benton	Relinquished by

gals

	Initial	1 st Vol	1 st Vol 2 nd Vol	3 rd Vol	4 th Vol	5 th Vol	Post Sampling	٥
Cumulative Volume Purged (gallons)	0							, i
Time (military)	1240							
pH (s.u.)	4.92							
Specific Cond. (µmhos/cm)	101.0							
Water Temperature (°C)	22.5							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen Readings (mg/L)	2.19							

Remarks: Well sampled on 5/29/07 at 1240.



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MW-13

Date (mm/dd/yy):		May 29, 2007			Facility Name: Former Ryder Truck Terminal
Field Personnel:	onditions.	Terence Livingston			Facility ID#: UST Permit #11929 Well #: M
College Medules		Sunns			Well Diameter (D): 2 inch of 33.15 feet
Ambient Air Temperature:		30 °C			
					Conversion factor (C): 3.14 X (D/2)* for a 2 inch well C = 0.163 for a 4 inch well C = 0.463
	Quality,	Quality Assurance			
					*Free Product Thickness: N/A feet
pH Meter	pH strips	Conductivity Meter YSI 30/10	YSI 30/10		Depth to Ground Water (DGW) 24.20 feet
serial no.			97A0751AD		Total Well Depth (TWD) 33.20 feet
pH=4.0		standard			Length of Water Column (LWC=TWD-DGW) 9 00
pH=7.0		standard			
pH=10.0		standard			1 Casing Volume (CV = LWC \times C) = \times 0.17 =
					3 Casing Volume 3 X CV = gals (standard purge)
	Chain o	Chain of Custody			
					Total Volume of Water Purged Before Sampling
T. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930		
Relinquished by	Date/Time	Received by	Date/Time	*	*If free product is present over 1/8 inch, sampling will not be rec

gals (standard purge volume)

feet

ch, sampling will not be required.

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 4th Vol 5th Vol	3rd Vol	4 th Vol	ς th γ.ο.	Dost Sampling	5
Cumulative Volume Purged (gallons)	0				5	5	1031 031	20
Time (military)	1215							
pH (s.u.)	5.17							
Specific Cond. (µmhos/cm)	56.5							
Water Temperature (°C)	21.3							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Slight							T
Dissolved Oxygen Readings (mg/L)	1.13							
						_		

Remarks: Well sampled on 5/29/07 at 1215.

DHEC 3529 (11/1997)



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	The second secon	The state of the s		
Date (mm/dd/yy):		May 29, 2007		Facility Name: Former Ryder Truck Terminal
Field Personnel:		Terence Livingston	•	Facility ID#: UST Permit #11929 Well #: MW-14
General Weather Conditions:		Sunny		THE PROPERTY OF THE PROPERTY O
				Well Diameter (D): 2 inch of 31.70 feet
Ambient Air Temperature:	ature: 30	၁့		
				Conversion factor (C): 3.14 X (D/2) for a 2 inch well C = 0.163
			*	tor a 4 inch well C = 0.652
	Quality A	Quality Assurance		
				+Free Product Thickness: N/A feet
	pH strips	Conductivity Meter YSI 30/10	YSI 30/10	Depth to Ground Water (DGW) 24.22 feet
serial no.		serial no. 97/	97A0751AD	Total Well Depth (TWD) 32.0 feet
pH=4.0		standard		LWC=TWD-DGW)
pH=7.0		standard		
pH=10.0		standard		1 Casing Volume (CV = LWC X C) = $X 0.17 =$
				3 Casing Volume 3 X CV = gals (standard purge volume)
	Chain of	Chain of Custody		
E		•		Total Volume of Water Purged Before Sampling
I. Benton	5/30 / 1700	Pace Analytical	5/31 / 0930	
Relinquished by	Date/Time	Received by	Date/Time	*If free product is present over 1/8 inch, sampling will not be required.

	Initial		2 nd Vol	3 rd Vol	1st Vol 2nd Vol 3rd Vol 5th Vol 5th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0	ŀ					
Time (military)	1145						
pH (s.u.)	5.30						
Specific Cond. (µmhos/cm)	70.9						
Water Temperature (°C)	22.4						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear						
Dissolved Oxygen Readings (mg/L)	0.73						

Remarks: Well sampled on 5/29/07 at 1145.

DHEC 3529 (11/1997)



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Facility Name: Former Ryder Truck Terminal Facility ID#: UST Permit #11929 Well #: MW-15	Well Diameter (D): 2 inch of 33.41 feet	Conversion factor (C): 3.14 X (D/2) ² for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness: N/A feet	Depth to Ground Water (DGW) Total Well Depth (TWD)	LWC=		1 Casing Volume (CV = LWC X C) = X 0.17 =	3 Casing Volume 3 X CV = gals (standard purge volume)	Total Volume of Water Purged Before Sampling gals.	Date/Time *If free product is present over 1/8 inch, sampling will not be required.
May 29, 2007 Terence Livingston	Sunny	30 °C	Quality Assurance	Conductivity Meter YSI 30/10 serial no. 97A0751AD	standard	standard	standard	Chain of Custody	Pace Analytical	1
	Conditions:	erature:	Quality	pH strips				Chain	5/30 / 1700	Date/Time
Date (mm/dd/yy): Field Personnel:	General Weather Conditions:	Ambient Air Temperature:		pH Meter serial no.	pH=4.0	0.7=Hq	pH=10.0		T Renton	Relinquished by

	Initial	1 st Vol	1st Vol 2nd Vol 3rd Vol 4th Vol 5th Vol	3rd Vol	4 th Vol	5 th Vol	Post Sampling
Cumulative Volume Purged (gallons)	0						
Time (military)	1130						
pH (s.u.)	4.93						
Specific Cond. (µmhos/cm)	48.1						
Water Temperature (°C)	23.5						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Cloudy						
Dissolved Oxygen Readings (mg/L)	0.38						

Remarks: Well sampled on 5/29/07 at 1130.

APPENDIX C

LABORATORY DATA SHEETS



Phone: 704.875.9092 Fax: 704.875.9091 F



June 13, 2007

Mr. Trevor Benton Bunnell-Lammons Engineering 6004 Ponders Ct. Greenville, SC 29642

RE: Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Dear Mr. Benton:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2007. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals Analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Charlotte laboratory unless otherwise footnoted.

The results relate only to samples in this report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Andy Stevens

andy.stevens@pacelabs.com

Project Manager

Enclosures



₹ace Analytical ™ www.pacelabs.com

Pace Analytical Services, Inc.

9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Project Sample Number: 92145593-001 Lab Sample No: 928450675 Date Collected: 05/29/07 13:30 Client Sample ID: MW-1 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Qual RegLmt
GC/MS Volatiles						-		
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	1634-04-4	
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	108-88-3	
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:11	MCK		
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:11	MCK	95-47-6	
Toluene-d8 (S)	99	8		1.0	06/01/07 01:11	MCK	2037-26-5	
4-Bromofluorobenzene (S)	101	*		1.0	06/01/07 01:11	MCK	460-00-4	
Dibromofluoromethane (S)	104	*		1.0	06/01/07 01:11	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	106	%		1.0	06/01/07 01:11	MCK	17060-07-0	

Date: 06/13/07

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Asheville Certification IDs NC Wastewater 40 NC Drinking Water 37712 SC Environmental 99030 FL NELAP E87648

REPORT OF LABORATORY ANALYSIS



Phone: 704.875.9092 Fax: 704.875.9091

F



Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No:	928450725	Project Sample Number:	92145593-002	Date Collected:	05/29/07 12:25
Client Sample ID:	MW-3R	Matrix:	Water	Date Received:	05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	<u>Oual RegLmt</u>
GC Semivolatiles								
EDB and DBCP in Water	Method: EPA	8011						
1,2-Dibromoethane (EDB)	0.51	ug/l	0.020	1.0	06/12/07 11:30	RCS1	106-93-4	
1-Chloro-2-bromopropane (S)	99	8		1.0	06/12/07 11:30	RCS1	301-79-56	
GC/MS Volatiles						r		
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	48.	ug/l	5.0	1.0	06/02/07 01:18	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/02/07 01:18	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/02/07 01:18	MCK	1634-04-4	
Naphthalene	140	ug/l	5.0	1.0	06/02/07 01:18	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/02/07 01:18	MCK	108-88-3	
m&p-Xylene	31.	ug/l	10.	1.0	06/02/07 01:18	MCK		
o-Xylene	78.	ug/l	5.0	1.0	06/02/07 01:18	MCK	95-47-6	
Toluene-d8 (S)	105	%		1.0	06/02/07 01:18	MCK	2037-26-5	
4-Bromofluorobenzene (S)	98	8		1.0	06/02/07 01:18	MCK	460-00-4	
Dibromofluoromethane (S)	109	%		1.0	06/02/07 01:18	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	119	8		1.0	06/02/07 01:18	MCK	17060-07-0	

Date: 06/13/07

Page: 2 of 18

Asheville Certification IDs NC Wastewater 40 NC Drinking Water 37712 SC Environmental 99030 FL NELAP E87648

REPORT OF LABORATORY ANALYSIS

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Fax: 704.875.9091



Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450733 Project Sample Number: 92145593-003 Date Collected: 05/29/07 13:20 Client Sample ID: MW-4 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	שת	Analyzed	Bv	CAS No.	Qual RegLmt
GC/MS Volatiles			Nepore Binie		AMAIY2EG		CAD NO.	Qual Kegimic
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	1634-04-4	
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	108-88-3	
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:27	MCK		
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:27	MCK	95-47-6	
Toluene-d8 (S)	101	8		1.0	06/01/07 01:27	MCK	2037-26-5	
4-Bromofluorobenzene (S)	101	ક		1.0	06/01/07 01:27	MCK	460-00-4	
Dibromofluoromethane (S)	102	%		1.0	06/01/07 01:27	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	104	8		1.0	06/01/07 01:27	MCK	17060-07-0	

Date: 06/13/07

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| Asheville Certification | IDs | NC Wastewater | 40 | 37712 | SC Environmental | 99030 | FL NELAP | E87648 |

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Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450741 Project Sample Number: 92145593-004 Date Collected: 05/29/07 13:05 Client Sample ID: MW-5 Matrix: Water Date Received: 05/31/07 09:30

_	_							
<u>Parameters</u>	<u>Results</u>	<u>Units</u>	<u>Report Limit</u>	DF	<u>Analyzed</u>	By	CAS No.	Oual RegLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	1634-04-4	
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	108-88-3	
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:43	MCK		
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:43	MCK	95-47-6	
Toluene-d8 (S)	100	%		1.0	06/01/07 01:43	MCK	2037-26-5	
4-Bromofluorobenzene (S)	100	%		1.0	06/01/07 01:43	MCK	460-00-4	
Dibromofluoromethane (S)	103	%		1.0	06/01/07 01:43	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	105	%		1.0	06/01/07 01:43	MCK	17060-07-0	

Date: 06/13/07

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Asheville Certification IDs NC Wastewater 40 NC Drinking Water 37712 SC Environmental 99030 FL NELAP E87648



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Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450758 Project Sample Number: 92145593-005 Date Collected: 05/29/07 10:50 Client Sample ID: MW-7 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Qual ReqLmt
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	1634-04-4	
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	108-88-3	
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 01:59	MCK		
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 01:59	MCK	95-47-6	
Toluene-d8 (S)	100	%		1.0	06/01/07 01:59	MCK	2037-26-5	
4-Bromofluorobenzene (S)	98	%		1.0	06/01/07 01:59	MCK	460-00-4	
Dibromofluoromethane (S)	105	%		1.0	06/01/07 01:59	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	%		1.0	06/01/07 01:59	MCK	17060-07-0	

Date: 06/13/07

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Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450790 Project Sample Number: 92145593-006 Date Collected: 05/29/07 10:55 Client Sample ID: MW-8 Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS No.	Oual RegLmt
GC/MS Volatiles								vega negamic
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0		06/01/07 02:15			
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	108-88-3	
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 02:15	MCK		
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 02:15	MCK	95-47-6	
Toluene-d8 (S)	101	%		1.0	06/01/07 02:15	MCK	2037-26-5	
4-Bromofluorobenzene (S)	100	%		1.0	06/01/07 02:15	MCK	460-00-4	
Dibromofluoromethane (S)	105	%		1.0	06/01/07 02:15	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	8		1.0	06/01/07 02:15	MCK	17060-07-0	

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F



Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

	······				
Lab Sample No:	928450808	Project Sample	Number:	92145593-007	Date Collected: 05/29/07 12:50
Client Sample ID:	MW-9		Matrix:	Water	Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS NoQual RegLmt
GC/MS Volatiles							
GC/MS VOCs by 8260	Method: EPA	8260					
Benzene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	71-43-2
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	100-41-4
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	1634-04-4
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	91-20-3
Toluene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	108-88-3
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 02:31	MCK	
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 02:31	MCK	95-47-6
Toluene-d8 (S)	100	%		1.0	06/01/07 02:31	MCK	2037-26-5
4-Bromofluorobenzene (S)	99	%		1.0	06/01/07 02:31	MCK	460-00-4
Dibromofluoromethane (S)	106	%		1.0	06/01/07 02:31	MCK	1868-53-7
1,2-Dichloroethane-d4 (S)	107	ち		1.0	06/01/07 02:31	MCK	17060-07-0

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Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No:	928450816	Project	Sample Number:	92145593-008	Date Collected:	05/29/07 14:45
Client Sample ID:	MW-10		Matrix:	Water	Date Received:	05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	Bv	CAS_NoQual_RegLmt
GC/MS Volatiles							
GC/MS VOCs by 8260	Method: EPA	8260					
Benzene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	71-43-2
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	100-41-4
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	1634-04-4
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	91-20-3
Toluene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	108-88-3
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 02:47	MCK	
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 02:47	MCK	95-47-6
Toluene-d8 (S)	101	%		1.0	06/01/07 02:47	MCK	2037-26-5
4-Bromofluorobenzene (S)	100	%		1.0	06/01/07 02:47	MCK	460-00-4
Dibromofluoromethane (S)	107	%		1.0	06/01/07 02:47	MCK	1868-53-7
1,2-Dichloroethane-d4 (S)	108	%		1.0	06/01/07 02:47	MCK	17060-07-0

Date: 06/13/07

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> Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450824			Project Sample	Number:	92145593-009	I	ate Collecte	d: 05/29/07 1	2:40
Client Sample ID: MW-12			-		Matrix: Water		Date Received: 05/31/07 09:30		
Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Oual Regim	ıt
GC/MS Volatiles			_	-					_
GC/MS VOCs by 8260	Method: EPA	8260							
Benzene	ND	ug/l	5.0	1.0 0	06/01/07 03:03	MCK	71-43-2		
Ethylbenzene	ND	110/1	5.0	1.0.0	06/01/07 03:03	MCK	100-41-4		

Methyl-tert-butyl ether 11. ug/l 5.0 1.0 06/01/07 03:03 MCK 1634-04-4 Naphthalene ND ug/l 5.0 1.0 06/01/07 03:03 MCK 91-20-3 Toluene ND ug/l 5.0 1.0 06/01/07 03:03 MCK 108-88-3 m&p-Xylene ND ug/l 10. 1.0 06/01/07 03:03 MCK o-Xylene ND ug/l 5.0 1.0 06/01/07 03:03 MCK 95-47-6 Toluene-d8 (S) 101 1.0 06/01/07 03:03 MCK 2037-26-5 4-Bromofluorobenzene (S) 97 1.0 06/01/07 03:03 MCK 460-00-4 Dibromofluoromethane (S) 107 ¥ 1.0 06/01/07 03:03 MCK 1868-53-7 1,2-Dichloroethane-d4 (S) 109 1.0 06/01/07 03:03 MCK 17060-07-0

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Phone: 704.875.9092 Fax: 704.875.9091 F

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450832 Project Sample Number: 92145593-010 Date Collected: 05/29/07 14:30 Client Sample ID: MW-2D Matrix: Water Date Received: 05/31/07 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Oual RegLant
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	71-43-2	
Ethylbenzene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	1634-04-4	
Naphthalene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	91-20-3	
Toluene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	108-88-3	
m&p-Xylene	ND	ug/l	10.	1.0	06/01/07 03:19	MCK		
o-Xylene	ND	ug/l	5.0	1.0	06/01/07 03:19	MCK	95-47-6	
Toluene-d8 (S)	102	8		1.0	06/01/07 03:19	MCK	2037-26-5	
4-Bromofluorobenzene (S)	102	*		1.0	06/01/07 03:19	MCK	460-00-4	
Dibromofluoromethane (S)	103	8		1.0	06/01/07 03:19	MCK	1868-53-7	
1,2-Dichloroethane-d4 (S)	108	8		1.0	06/01/07 03:19	MCK	17060-07-0	

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Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450840 Project Sample Number: 92145593-011 Date Collected: 05/29/07 12:15 Client Sample ID: MW-13 Matrix: Water Date Received: 05/31/07 09:30

									u. 05/5	-,0,0,
Parameters	Results	Units	Report Limit	DF	Analyz	ed i	Bv	CAS No.	Onal	ReqLmt
GC Semivolatiles							~	CIAD IVO.	<u> Vuar</u>	Kegimic
EDB and DBCP in Water	Method: EPA	8011								
1,2-Dibromoethane (EDB)	0.62	ug/l	0.020	1.0	06/12/07 1	1:38 R	cs1	106-93-4		
1-Chloro-2-bromopropane (S)	106	8			06/12/07 1					
GC/MS Volatiles										
GC/MS VOCs by 8260	Method: EPA	8260								
Benzene	160	ug/l	10.	2.0	06/01/07 0	5:45 M	СK	71-43-2		
Ethylbenzene	ND	ug/l	10.		06/01/07 0					
Methyl-tert-butyl ether	ND	ug/l	10.		06/01/07 0					
Naphthalene	170	ug/l	10.		06/01/07 09					
Toluene	ND	ug/l	10.		06/01/07 0					
m&p-Xylene	39.	ug/l	20.		06/01/07 05					
o-Xylene	160	ug/l	10.		06/01/07 09			95-47-6		
Toluene-d8 (S)	101	%			06/01/07 05					
4-Bromofluorobenzene (S)	101	%			06/01/07 05					
Dibromofluoromethane (S)	106	%			06/01/07 05					
1,2-Dichloroethane-d4 (S)	109	8			06/01/07 05					

Date: 06/13/07

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Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450857 Client Sample ID: MW-14

Project Sample Number: 92145593-012

Date Collected: 05/29/07 11:45

Client Sample ID: MW-14			,		x: Water			05/29/07 11:4:
Parameters	Results	Units	Report Limit	DF	Analyzed	Ву	CAS_No	Qual ReqLmt
GC Semivolatiles								
EDB and DBCP in Water	Method: EPA	8011						
1,2-Dibromoethane (EDB)	0.26	ug/l	0.020	1.0	06/12/07 12:03	RCS1	106-93-4	
1-Chloro-2-bromopropane (S)	87	%			06/12/07 12:03			
GC/MS Volatiles								
GC/MS VOCs by 8260	Method: EPA	8260						
Benzene	220	ug/l	25.	5.0	06/01/07 06:05	MCK	71_42_2	
Ethylbenzene	550	ug/l	25.		06/01/07 06:05			
Methyl-tert-butyl ether	ND	ug/l	25.		06/01/07 06:05			
Naphthalene	250	ug/l	25.		06/01/07 06:05			
Toluene	ND	ug/l	25.		06/01/07 06:05			
m&p-Xylene	ND	ug/l	50.		06/01/07 06:05		100-00-3	
o-Xylene	700	ug/l	25.		06/01/07 06:05		95 A7 C	
Toluene-d8 (S)	102	ş.			06/01/07 06:05			
4-Bromofluorobenzene (S)	102	%			06/01/07 06:05			
Dibromofluoromethane (S)	107	%			06/01/07 06:05			
1,2-Dichloroethane-d4 (S)	109	8			06/01/07 06:05			

Date: 06/13/07

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Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

Lab Sample No: 928450899 Project Sample Number: 92145593-013 Date Collected: 05/29/07 11:30 Client Sample ID: MW-15 Matrix: Water Date Received: 05/31/07 09:30

				Macri	A. Mater			Date Received	1: 05/31/0/ 09:3
Parameters	Results	Units	Report Limit	DF	lens	yzed	D.,	CAS No.	Ouel Bester
GC Semivolatiles				_~		yzeu	Бу	CAS NO.	<u>Qual RegLmt</u>
EDB and DBCP in Water	Method: EPA	8011							
1,2-Dibromoethane (EDB)	0.45	ug/l	0.020	1.0	06/12/07	12-12	PCG1	106-93-4	
1-Chloro-2-bromopropane (S)	116	%						301-79-56	
GC/MS Volatiles									
GC/MS VOCs by 8260	Method: EPA	8260							
Benzene	190	ug/l	5.0	1.0	06/02/07	00.54	MCK	71-43-2	
Ethylbenzene	21.	ug/l	5.0					100-41-4	
Methyl-tert-butyl ether	ND	ug/l	5.0					1634-04-4	
Naphthalene	390	ug/l	50.		06/02/07				
Toluene	12.	ug/l	5.0					108-88-3	
m&p-Xylene	110	ug/l	10.		06/02/07				
o-Xylene	130	ug/l	5.0		06/02/07			95-47-6	
Toluene-d8 (S)	105	%						2037-26-5	
4-Bromofluorobenzene (S)	96	%						460-00-4	
Dibromofluoromethane (S)	108	ક						1868-53-7	
1,2-Dichloroethane-d4 (S)	118	8						17060-07-0	

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Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

Method 9071B modified to use ASE.

All pH, Free Chlorine, Total Chlorine and Ferrous Iron analyses conducted outside of RPA recommended immediate hold time.

Depending on the moisture content the PRLs can be elevated for all soil samples reported on a dry weight basis.

2-Chloroethyl vinyl ether has been shown to degrade in the presence of acid.

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

MDL Adjusted Method Detection Limit

(S) Surrogate

Date: 06/13/07

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QUALITY CONTROL DATA

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

QC Batch: 191077 Analysis Method: EPA 8011 QC Batch Method: EPA 504.1 Analysis Description: EDB and DBCP in Water Associated Lab Samples: 928450725 928450840 928450857 928450899 METHOD BLANK: 928492115 Associated Lab Samples: 928450725 928450840 928450857 928450899 Blank Reporting **Parameter** Units Result Footnotes | 1,2-Dibromoethane (EDB) ug/l ND 0.020 1-Chloro-2-bromopropane (S) ક્ષ 87 LABORATORY CONTROL SAMPLE & LCSD: 928492123 928492131 Spike LCS LCSD LCS LCSD Parameter Units Conc. Result Result % Rec % Rec RPD Footnotes 1,2-Dibromoethane (EDB) ug/l 0.2500 0.2529 0.2418 101 97 1-Chloro-2-bromopropane (S) 115 106 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928492149 928492156 928449628 Spike MS MSD MS MSD <u>Parameter</u> Units Result Conc. Result Result % Rec % Rec RPD Footnotes 1,2-Dibromoethane (EDB) ug/l 0 0.2500 0.1879 0.1999 75 80 1-Chloro-2-bromopropane (S) 77 86

DUP

RPD

Footnotes

Result

ND

108

Date: 06/13/07

SAMPLE DUPLICATE: 928492164

1,2-Dibromoethane (EDB)

1-Chloro-2-bromopropane (S)

<u>Parameter</u>

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928449636

Result

107

ND

Units

ug/l

9ૂ

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QUALITY CONTROL DATA

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

QC Batch: 190284 QC Batch Method: EPA 8260

Analysis Method: EPA 8260

Analysis Description: GC/MS VOCs by 8260

Associated Lab Samples:

928450725 928450733 928450741

928450758

928450675 928450790

928450808 928450816 928450824 928450832

928450840

928450857 928450899

METHOD BLANK: 928452184

Associated Lab Samples:

928450675 928450725

928450733

928450741

928450758

928450790

928450808

928450816

928450824

928450832

928450840

928450857

928450899

		Blank	Reporting
Parameter	Units	Result_	Limit Footnotes
Benzene	ug/l	ND	5.0
Ethylbenzene	ug/l	ND	5.0
Methyl-tert-butyl ether	ug/l	ND	5.0
Naphthalene	ug/l	ND	5.0
Toluene	ug/l	· ND	5.0
m&p-Xylene	ug/l	ND	10.
o-Xylene	ug/l	ND	5.0
Toluene-d8 (S)	%	101	
4-Bromofluorobenzene (S)	ક	102	
Dibromofluoromethane (S)	*	102	
1,2-Dichloroethane-d4 (S)	%	105	

LABORATORY CONTROL SAMPLE: 928452192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	50.00	52.87	106	FOOLHOLES
Ethylbenzene	ug/l	50.00	50.07	100	
Methyl-tert-butyl ether	ug/l	50.00	57.46	115	
Naphthalene	ug/l	50.00	65.22	130	
Toluene	ug/l	50.00	52.53	105	
m&p-Xylene	ug/l	100.00	103.0	103	
o-Xylene	ug/l	50.00	51.05	102	
Toluene-d8 (S)				100	
4-Bromofluorobenzene (S)				100	
Dibromofluoromethane (S)				102	
1,2-Dichloroethane-d4 (S)				102	

Date: 06/13/07

Page: 16 of 18

Asheville Certification IDs NC Wastewater 40 NC Drinking Water 37712 SC Environmental 99030 FL NELAP E87648 Pace Analytical www.pacelabs.com

Pace Analytical Services, Inc. 9800 Kincey Avenue, Suite 100 Huntersville, NC 28078

Phone: 704.875.9092 Fax: 704.875.9091

QUALITY CONTROL DATA

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 928454677 928454685

		928450824	Spike	MS	MSD	MS	MSD		
Parameter	Units	Result	Conc.	Result	Result	% Rec	% <u>Rec</u>	<u>RPD</u>	Footnotes_
Benzene	ug/l	0	50.00	61.50	62.80	123	126	2	
Toluene	ug/l	0.1817	50.00	59.15	60.37	118	120	2	
Toluene-d8 (S)						100	100		
4-Bromofluorobenzene (S)						95	102		
Dibromofluoromethane (S)						100	102		
1,2-Dichloroethane-d4 (S)						101	105		

Date: 06/13/07

Page: 17 of 18

Asheville Gertification IDs NC Wastewater 40 NC Drinking Water 37712 SC Environmental 99030 FL NELAP 887648



Phone: 704.875.9092 Fax: 704.875.9091

Lab Project Number: 92145593

Client Project ID: FORMER RYDER TRUCK J07-101-11

QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)

MS(D) Matrix Spike (Duplicate)

DUP Sample Duplicate

ND Not detected at or above adjusted reporting limit

NC Not Calculable

J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

MDL Adjusted Method Detection Limit

RPD Relative Percent Difference

(S) Surrogate

Date: 06/13/07

Page: 18 of 18

Pace Analytical **

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section	Section A	Section B	Section C	Page: 1 of 2
ubey C	tion:	Required Project Information:	Invoice Information:	
Compar	BLE	Report To: TRENDE BENTON	Attention:	1068808
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Email To	orp.com	Purchase Order No.:	Pace Quote Reference:	T RCRA
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PRINT Name of SAMPLER: SIGNATURE of SAMPLER ORIGINAL

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1,5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.06, 2-Feb-2007

Custody Sealed Cooler (Y/N)

Received on Ice (Y/N)

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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F-ALL-Q-020rev.06, 2-Feb-2007

Samples Intact (V/V)

(N/A) Custody saled Cooler

Received on Ice (Y/V)

O° ni qmeT

8

53167



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

AUG 19 2008

MS LLOYD DAUTEN 4925 COACH HILL DR GREENVILLE SC 29615

Re:

Groundwater sampling directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit # 11929; CA # 33297 Release reported February 25, 1997

Greenville County

Dear Ms. Dauten:

The Underground Storage Tank (UST) Program recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering (BLE), Inc. as your contractor. The next appropriate scope of work at the site is comprehensive groundwater sampling of all monitoring wells.

All existing monitoring wells should be sampled for BTEX+naph+MtBE+DCA (EPA Method 8260), EDB (EPA Method 8011) and lead (<u>no-purge sample</u>, EPA Method 6010). Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. <u>Please have your contractor request low detection limits/reporting levels for all analyses</u>. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

Cost Agreement # 33297 has been approved in the amount shown on the enclosed cost agreement form for the sampling. Your contractor should submit sampling results to the Program in an assessment report containing information stipulated in the following items:

- A narrative portion documenting current site conditions and noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report should also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments.
- Groundwater elevations, depth to ground water, measurable free-phase product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, presented in tabular form. Groundwater laboratory analytical data for all monitoring wells presented in tabular format.
- A groundwater elevation contour map of the site based on current potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

ust pocyt

BLE, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor.

The monitoring report and invoice are due within <u>60</u> days from the date of this letter. An interim invoice may not be submitted for this scope of work. If the invoice is not submitted within one hundred and twenty (120) days from the date of this letter, monies allocated to pay for the work will be uncommitted. This means that invoices for the scope of work submitted after the 120-day deadline will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Department is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated costs must be pre-approved by the Department for the costs to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and to audit project records at any time during the project or after completion of work.

The Department grants pre-approval for transportation of virgin petroleum-impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation-derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence concerning this site, please reference UST Permit # 11929. If there are any questions concerning this project, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely.

Stephanie Burne Stephanie Briney, Hydrogeologist

Southwestern SC Corrective Action Section

Underground Storage Tank Program

Bureau of Land and Waste Management

enc: Approved cost agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615

Technical file (w/enc)

Approved Cost Agreement 33297

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB		·		
	B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION				
	A GROUND WATER	1.0000	55.00	55.00
	D GROUNDWATER NO-PURGE	15.0000	35.00	525.00
11 ANALYSES				
GW GROUNDWATER	A BTEX+NAPTH+MTBE	16.0000	100.00	1,600.00
	BB 1,2-DCA	16.0000	10.75	172.00
	E LEAD	16.0000	20.00	320.00
	F EDB	16.0000	55.00	880.00
17 DISPOSAL				
	A1 WASTEWATER - PURGING/SAMPLING	2.0000	90.00	180.00
19 RPT/PROJECT MNGT & COORDINATIO				<u> </u>
·	PCT PERCENT	0.1500	4,312.00	646.80
		Tatal A		4.050.00

Total Amount

4,958.80





TRINK PROGRAM GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF GROUNDWATER **SAMPLING**

FORMER RYDER TRUCK TERMINAL 10 WOODS LAKE DRIVE GREENVILLE, SOUTH CAROLINA **UST PERMIT # 11929; COST APPROVAL # 33297**

Prepared For

The Estate of Robert B. Vaughn 4 East Parker Road Greenville, South Carolina 29611-3504

Prepared By

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615

October 21, 2008

BLE Project Number J08-1010-12



October 21, 2008

South Carolina Department of Health and Environmental Control Southwestern SC Corrective Action Section Underground Storage Tank Program Bureau of Land and Waste Management 2600 Bull St.

Columbia, SC 29201-1708

Attention:

Ms. Stephanie Briney

Hydrogeologist

Subject:

Report of Groundwater Sampling

Former Ryder Truck Terminal

10 Woods Lake Drive

Greenville, Greenville County UST Permit # 11929; CA # 33297 BLE Project No. J07-1010-12

Dear Mr. Abernathy:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has completed a groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated August 19, 2008. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

Trevor J. Benton P.G.

Project Hydrogeologist

Registered, South Carolina No. 2395

BUNNELL-LAMMONS ENGINEERING, INC.

CAP

11/1/11/11/1//0/21/0

(864) 288-1265

(864) 288-4430

cc: Mr. Allen Vaughn, 4 East Parker Road, Greenville, SC 29611-1916.



Report of Groundwater Sampling Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #33297

October 21, 2008 BLE Project No. J08-1010-12

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, and 2007 by BLE to define the extent of petroleum contamination and to remove free-product concentrations from two monitoring wells (MW-4 and MW-6) at the site.

GROUNDWATER SAMPLING

Sixteen groundwater monitoring wells (MW-1, MW-2, MW-2D, MW-3R, and MW-4 through MW-15) are present at the site. Groundwater levels were measured on September 9, 2008 (Table 1). A groundwater elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown as Figure 2.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling. Therefore, only MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix B. The samples were delivered via courier to Genapure Analytical Services in Boca Raton, Florida for analysis (SC Certification #96031001) of benzene, toluene, ethylbenzene, xylenes (BTEX), naphthalene, methyl-tertiary-butyl-ether (MTBE), and 1,2-dichloroethane (1,2-DCA) by EPA Method 8260B; 1,2-dibromoethane (EDB) by EPA Method 8011; and total lead by EPA Method 6010B. Monitoring well sampling logs and procedures are included in Appendix B. The laboratory data sheets are provided in Appendix B. Concentrations of the chemicals of concern (CoC) for each well is shown on Figure 2. Additionally, historical groundwater laboratory analytical data is provided in Table 2.

Purge water generated during the groundwater sampling event was contained in a sealed 55-gallon drum. These wastes were disposed of on-site after analytical results indicated that CoCs were not detected above the laboratory method detection limit.

GROUNDWATER SAMPLING RESULTS

Free-phase petroleum product was detected in monitoring wells MW-2 (0.29 feet), MW-4 (0.96 feet), MW-6 (0.42 feet), and MW-15 (0.29 feet) and therefore were not sampled. Additionally, MW-7, MW-8, and MW-11 were inaccessible (locked gate at abandoned facility) and were not able to be sampled at this time. Of the nine groundwater samples collected for laboratory analysis,



Report of Groundwater Sampling Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #33297

October 21, 2008 BLE Project No. J08-1010-12

three wells (MW-3R, MW-13, and MW-14) detected petroleum hydrocarbons above South Carolina Risk-Based Screening Levels¹ (RBSLs). Benzene, naphthalene, and EDB were detected above RBSLs in MW-3R, MW-13, and MW-14. Additionally, petroleum hydrocarbons detected above the laboratory Method Detection Limit (MDL), but at levels below RBSLs include toluene (MW-14), ethylbenzene (MW-14), xylenes (MW-3R, MW-13, and MW-14), and MTBE (MW-12). Additionally, monitoring wells MW-1, MW-3R, MW-9, MW-10, and MW-12 detected concentrations of total lead above RBSLs. Based on the laboratory results, concentrations of the detected petroleum hydrocarbons are mainly confined to the source area or slightly downgradient of the source area. The source of the free-product in MW-4 is most likely associated with a 1,000-gallon fuel oil UST that is directly adjacent to the well. At this time, it is unknown if this UST is still in use. The results of the groundwater samples are summarized in Table 2, and are shown on Figure 2. Laboratory data sheets are provided in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

Free-phase petroleum product is present in monitoring wells MW-2, MW-4, MW-6, and MW-15. MW-15 is a sidegradient monitoring well located on the west side of the former gasoline/diesel UST basin. This is the first occurrence of free-product in this well. Monitoring well MW-4 is located in the area of a 1,000-gallon fuel oil UST. CoCs were detected in MW-4 during the late 1990's and early 2000's, but had since decreased below laboratory detection limits. The emergence of free-product in MW-4 may be attributed to the decline of groundwater levels from recent drought conditions in this region. Increases in free-product and/or dissolved phase concentrations are common at sites with declining water tables. As the water table falls, petroleum hydrocarbons previously trapped as a residual phase can become remobilized and enter into wells.

Since moderate thicknesses of free-product are present in monitoring wells MW-2, MW-4, MW-6, and MW-15, we recommend that two additional free-product extraction/monitoring wells be installed at the site. One well should be installed on the eastern side of the former gasoline/diesel UST basin to evaluate for the presence of free-product in this area. The second well should be installed approximately 25 feet southeast of MW-4. These wells can serve as supplemental free-product extraction points and groundwater sampling locations. The wells should be installed with 20-foot (minimum) screens to provide maximum vapor removal from the vadose zone. After installation of the new wells, we recommend a series of two additional AFVR events be conducted to: 1) remove residual free-phase product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface. The events should be spaced approximately one month apart to allow the wells to return to equilibrium. In addition, BLE recommends a comprehensive groundwater sampling event be conducted approximately one month after completion of the final AFVR event.

The type of petroleum contamination at the site appears to be a mixture of gasoline, diesel, and fuel/waste oil. Due to the presence of fuel/waste oil, we recommend the addition of the 8 RCRA metals to the sampling matrix.

¹ South Carolina Risk-Based Corrective Action for Petroleum Releases, Bureau of Land and Waste Management, Underground Storage Tank Program, May 15, 2001.



Report of Groundwater Sampling Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #33297

October 21, 2008 BLE Project No. J08-1010-12

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

TABLES

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #33297 BLE Project No. J08-1010-12

Boring ID#	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	GW Depth (bgs)	GW Elevation	Well Depth (bgs)	Screen Depth	Screen Elevation
MW-1	100.70	98.48	31.42	29.21	69.28	31.0	21.0 - 31.0	77.5 - 67.5
MW-2*	100.10	100.54	28.45	28.89	71.65	35.0	25.0 - 35.0	75.5 - 65.5
MW-2D	99.29	99.76	30.34	30.82	68.95	54.5	49.5 - 54.5	50.3 - 45.3
MW-3			Wel	l abandoned De			1310 3110	30.3 13.5
MW-3R	99.00	99.57	28.02	28.59	70.98	32.4	18.5 - 28.5	81.1 - 71.1
MW-4*	102.67	102.91	27.94	28.18	74.73	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	27.35	27.59	74.13	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	28.39	28.77	73.35	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97		Not measured		32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87		Not measured		29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	27.49	27.88	74.77	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	27.32	27.32	77.35	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92		Not measured		31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	28.99	29.29	72.39	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	27.41	27.74	71.21	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	28.20	28.73	71.10	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	28.55	28.74	71.84	33.5	23.3 - 33.3	77.3 - 67.3

NOTES:

Groundwater levels were measured on September 9, 2008

Measurements are in feet; elevations are relative to an arbitrary site datum.

*Petroleum free product was measured in MW-2 (0.29'), MW-4 (0.96'), MW-6 (0.42'), & MW-15 (0.29') on 8/29/2008

Groundwater elevation data for MW-2, MW-4, MW-6, and MW-15 has been corrected for free-product thickness using a density of 0.70 g/cc.

btoc = below top of casing

bgs = below ground surface

| 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 Units RBSL 333333

Composal Petrodean Fre Frodest Flanzania Flanzania Flanzania Manna Todal Flanzania	
EFA Method NA. A M	
Units feet Heal	
NA RESIL	
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Date Sample	MW-3
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NA N	
221/2006 A A A A A A A A A A A A A A A A A A A	
12 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Date Samples (52-2007) (43 - 44 - 44 - 44 - 44 - 44 - 44 - 44 -	MW-3R
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25.58 H H H H H H H H H H H H H H H H H H H	
4 6 2 5 4 4 4 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6	
Date Sample 202000 WA 44 44 44 44 44 44 44 44 44	MW-4
1700/005	
5 5 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	

9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
4 1 2 3 4 3 5 4 4 4 4 4 4 5 5 5 6 6 6 6 6 6 6 6 6 6	
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SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Detected Compounds Only
Former Ryder Truck Terminal
Greavella, South Carelina
UST printf #11929. Cost Agreement #33297
BLE Project No. 408-1010-12

TABLE 2

TABLE 2 - CONTINUED

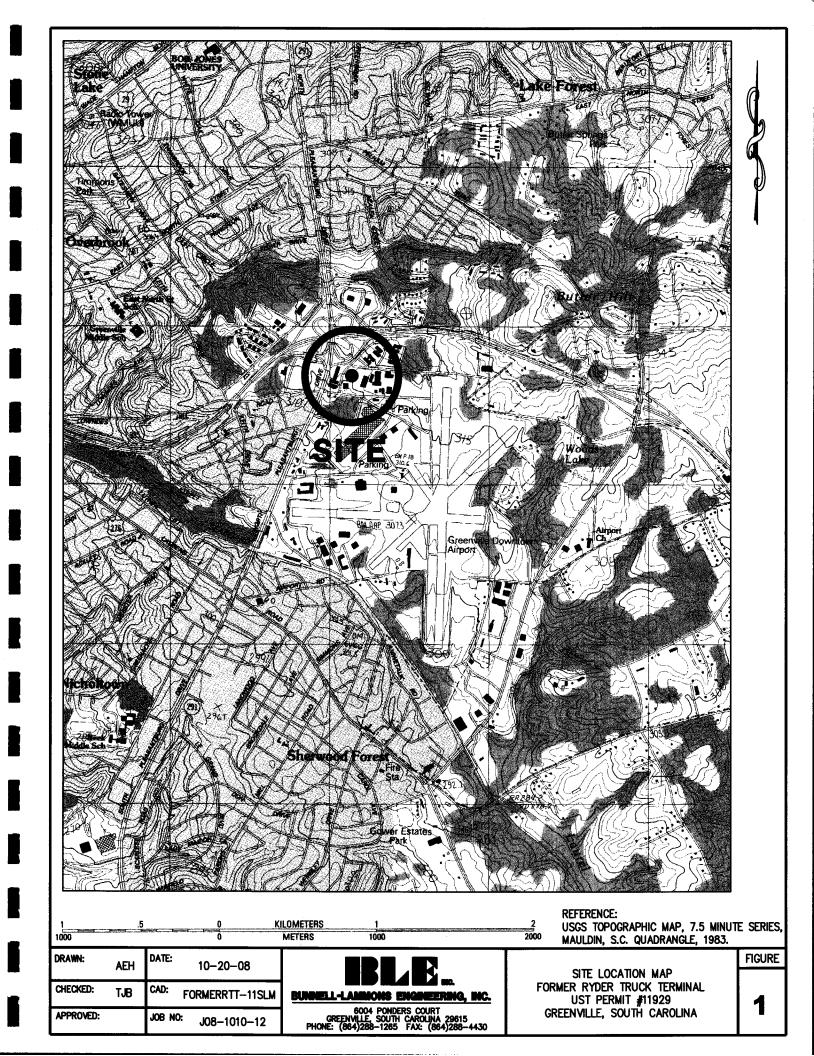
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS Detected Compounds Only Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #33297 BLE Project No. J07-1010-12

	Trolanes Edyplanes Edyplanes Edyplanes Liddin (MTBE) McGhl-ferbuly-ether (M	Petroleum Free Product	Compound	
	8250B 8250B 8250B 8250B 8250B 8250B 8250B 8250B 8250B 8270C 820C 820C 820C 820C 820C 820C 820C 82	NA	EPA Method	
	1,84m 1,84	feet	Units	
+	1.000 1.000 10.000 40 40 40 40 40 40 40 40 40 40 40 40	ŅĀ	RBSL	
	43 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ΝΑ	9/15/1999	
		NA NA	7/5/2001	
MW-11	N	NA	0000801	
	4444444444444444	NA	200	
	\$ 5 6 A A B A A A A A A A B A B B B B B B B	4 1/20/2005 NA	San	MW-8
	3.444444444444	05 2/24/2006 NA	1	
MW-12			1 1	
12		5/29/2007 9/5 NA		
	444444444444444444444444444444444444444	9/9/2008 2 NA 2		
>	444444444444444444444444444444444444444	2/3/2004 NA		
MW-13	3.8 H H H H H H H H H H H H H H H H H H H	1/20/2005 NA		
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2/23/2006 NA	Date Sampled	MW-9
	S H H H H H H H H H H H H H H H H H H H	5/29/2007 NA		
MW-14	\$ 4 4 4 4 \$ 4 4 4 4 4 4 4 4 4 4 4 4 4 4	9/9/2008 NA		
	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2/2/2004 NA	-	
		4 1/20/2005 NA		
MW-15			Date S	
5	0		Date Sampled	
		007		
	9 H H H H H H H H H H H H H H H H H H H	9/9/2008		

Compound Petroleum Free Product Benzene Tablener Elhylmerane Elhylmerane Elhylmerane Exjeres, Total Leader (MTBE) Naghthalene Fluorene Flu	
EPA Method NA Method NA	
Units feet Hg/l	
RBSL. NA 1,000 10,000	
4 4 4 4 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
120/2003 NA N	
Date Sampled NA NB NB NB NB NB NB NB NB NB	MW-11
NAME OF THE PART O	
274 & 3/1/2006 N A A A A A A A A A A A A A A A A A A	
Date Sampled No. N	MW-12
992008 132 143 153 154 154 154 154 154 154 154 154	
2724 & M1020 MA 100 ND 100 ND 100 ND 100 100 100 100 100 100 100 10	
Date Samples NA 100 100 100 ND 100 ND 100 ND 100 ND 100 ND 100 ND ND ND ND ND ND ND ND ND	MW-13
992008 92008 92008 92008 92008 92008 92008	
222.6 21 17300 34,0 4,000 4	
Date Sampled 1 5/29/2007	MW-14
99/2008 NA 95/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 96/48 9	
Date Sampled 224.8 V11/2008 57.29/2007 NA	MW-15
A 2020 992 A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-15

Motes: µ[I = micrograms!] = upproximate Parts Per Billion (pph) µ[I] = micrograms! = approximate Parts Per Nillion (ppm) Shaded cells indicate concentrations above RISCL's A = Nanafoncel A = Not Applicable VII = Not Perceid at the Method Detection Limit VII = Not Perceid at the Method Detection Limit VII = Not Tested NE = No Enablished Values for RISSL RESI. = Risk Based Screening Level * Monitoring well MVP4 was damaped (object in well) prior to the 22.04 sampling event; therefore no groundwater data is available. The well was abandoned on 12.505

FIGURES



APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES MONITORING WELL PURGING AND SAMPLING LOGS

APPENDIX A - CONTINUED

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged only if the well screen did not bracket the water table. Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon[®] lined lids and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and delivered via courier to Pace Analytical, Inc. in Charlotte, North Carolina for analysis.



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Sample feet(ft) gals gais gals 'If free product is present over 1/8 inch, sampling wiil not be required. 31.00 0.30 0.91 0.0 1.79 Post (Standard Purge Volume) inch of 31.00 29.21 ٧ 5th Vol. Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 4 inch well C = 0.652 for a 2 inch well C = 0.163 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = *Free Product Thickness MW-1 Fotal Well Depth (TWD) Casing Volumes = 3 X 3rd Vol. Well Diameter (D) 2nd Vol. Well # Date/Time 35630-32 1st Vol. 324976 11929 0905 0.0 Terence Livingston & Ivan lazziary Initial Conductivity Sensor: Received by Site ID# Sunny Standard Standard serial no. Standard Standard 7 Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 **4**.0 7.0 Ambient Air Temperature (°C) Volume Purged (gallons) 80/60/60 General weather Conditions Relinquished by Facility Name: ime (military) Field Personnel pH Sensor: 3H = 10.0serial no. pH =4.0 pH = 7.00.7 = Hq

Remarks: Well sampled on 9/9/08 at 0905.

cloudy

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Nater Temperature (°C)

Specific Conductivity

(n.s) Hd

1.81

5.24 71.3 22.7



Page 2 of 16

Date 09/09/08	Well # MW-2
Field Personnel Terence Livingston & Ivan lazziary	
General weather Conditions Sunny	Well Diameter (D) 2 inch of 35.00 feet(ft)
Ambient Air Temperature (°C)	conversion factor (C): 3.143*(D/2)^2
	for a 2 inch well $C = 0.163$
Facility Name: Fmr Ryder Truck Terminal Site ID# 11929	for a 4 inch well C = 0.652
* Quality Assurance	*Free Product Thickness 0.29 ft Total Well Depth (TWD) 35.00 ft
	JGW)
pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32	Length of Water Colum (LWC = TWD-DGW) 6.55 ft
324976	1 Casing Volume (LWC*C) = 6.55 X .17 = 1.11 gals
	3 Casing Volumes = 3 X 1.11 = 3.34 gals
	(Standard Purge Volume)
pH = 7.0	
	Total Volume of Water Purged Before Sampling 0.0 gals
	Continuous od to a lines a
Relinquished by Date/Time Received by Date/Time	ווכם לוסממכן זי לוכסמור סלפו זים ווכזי, סמודףוזיון איוו זיםן גם ופקשופט.
f somo.	
Initial 1st Vol. 2	2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sample
Time (military)	
pH (s.u)	
Specific Conductivity	
Water Temperature (°C)	
Turbidity (subjective: clear, slightly cloudy, cloudy)	
Dissolved Oxygen (mg/l)	
Remarks: Well contained 0.29' of free product and was not sampled	



Page 3 of

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Date 09/09/08			Well#	MW-2D					
Field Personnel Terence Livingston & Ivan lazziary	an lazziary								
General weather Conditions Sunny		1	Well Diameter (D)	(<u>0</u>	2	inch of	54 50	feet(#)	
Ambient Air Temperature (°C)		i	conversion fa	conversion factor (C): 3.143*(D/2)^2	D/2)^2	5		(1)	
Facility Name: Fmr Ryder Truck Terminal Site ID#		11929		for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	C = 0.163 C = 0.652				
Quality Assurance			*Free Product Thickness Total Well Depth (TWD)	Thickness oth (TWD)	Ì	N/A 54.50	≠;¢		
pH Sensor: Oakton 35630-62 Conductivity Sensor:	ensor:	35630-32	Depth to Grou Length of Wat	Depth to Groundwater (DGW) Length of Water Colum (LWC = TWD-DGW)	WD'-UML	1 1	 26.05	¢	
serial no. 324976 serial no.		324976	1 Casing Volume (LWC*C) =	e (LWC*C) =	26.05 ×	× 17 =	4 43	ie c	
pH =4.0 Standard			3 Casing Volumes = 3 X	es = 3 ×			13 29	gas	-
pH = 7.0 Standard			•	•	(Standard Purge Volume)	(Volume)		e e e e e e e e e e e e e e e e e e e	
pH = 7.0 Standard				<u>l</u>		(2)			
pH = 10.0 Standard									
Chain of Custody			Total Volume	Total Volume of Water Purged Before Sampling	Before Samp	Buji	13.5	gals	<u> </u>
			*If free produc	*If free product is present over 1/8 inch, sampling will not be required	1/8 inch, sam	pling wiil no	t be required.		
Relinquished by Date/Time Received	ived by	Date/Time							
	Initial	1st Vol.	2nd Vol.	3rd Vol. 4th	4th Vol. 5t	5th Vol	Post	Sample	
Volume Purged (gallons)	0.0	4.5	9.0	5				200	
Time (military)	1010	1015	1019	1024					
pH (s.u)	5.66	5.98	6.05	5.87					
Specific Conductivity	125.8	147.3	125.5	123.9					
Water Temperature (°C)	20.7	20.7	20.0	20.0					

Remarks: Well was sampled on 9/9/08 at 1024.

20.0 clear

20.0 clear

20.7 sli cloudy

20.7 clear 2.49

> Turbidity (subjective: clear, slightly cloudy, cloudy) Dissolved Oxygen (mg/l)



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		feet(ft)	ı						Ħ	gals	gals				gals			Sample		
		32.40 feet(ft)				Ħ	Ħ	Ħ	2.06	0.35	1.05				0.0	be required.		Post		
		inch of	•			A/N	32.40	30.34	(. = 71. X	. 11	e Volume)	•		. Jing	npling wiil not		5th Vol.		
		2	*(D/2)^2	II C = 0.163	II C = 0.652		I	I	Length of Water Colum (LWC = TWD-DGW)	2.06	0.35	(Standard Purge Volume)	•		Total Volume of Water Purged Before Sampling	*If free product is present over 1/8 inch, sampling wiil not be required.		4th Vol. 5		
MW-3R		<u>a</u>	tor (C): 3.143	for a 2 inch well C = 0.163	for a 4 inch well C = 0.652	Thickness	th (TWD)	dwater (DGW	er Colum (LWC	(LWC*C) =	X E=8	•			of Water Purge	is present ove		3rd Vol. 4		
Well #	l	Well Diameter (D)	conversion factor (C): 3.143*(D/2)^2	•	•	*Free Product Thickness	Total Well Depth (TWD)	Depth to Groundwater (DGW)	Length of Wate	1 Casing Volume (LWC*C) =	3 Casing Volumes = 3 X				Total Volume c	*If free product		2nd Vol.		
					129				35630-32								Date/Time	1st Vol.		
	lazziary				11929			-	sor:	324976							l by	Initial	0.0	0920
	Terence Livingston & Ivan I	Sunny	24		Site ID#		ce		Conductivity Sensor:	serial no.	Standard	Standard	Standard	Standard	Χþ		Received by	1		
	Terence Livir				rminal		Quality Assurance			ser	Sta	Sta	Sta	Ste	Chain of Custody		Date/Time			
80/60/60		suc	(°C)		Fmr Ryder Truck Terminal		J		Oakton 35630-62	324976	4.0	7.0			J ₁				lons)	
0/60	nel	eneral weather Conditions	mbient Air Temperature (°C)						O								Relinquished by		olume Purged (gallons)	arv)
ate	ield Personnel	eneral wea	mbient Air		acility Name:			-	H Sensor:	erial no.	H =4.0	H = 7.0	4=7.0	H = 10.0			Rel		olume Pi	ime (military)

Remarks: Well was sampled on 9/9/08 at 0920.

4.78 32.0 23.4 cloudy 1.31

Turbidity (subjective: clear, slightly cloudy, cloudy)
Dissolved Oxygen (mg/l)

Specific Conductivity
Water Temperature (°C)

(n.s) Hd



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feet(ft) gals gals gals If free product is present over 1/8 inch, sampling will not be required. 29.50 0.80 1.56 0.27 0.0 (Standard Purge Volume) inch of 29.50 27.94 96.0 Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) Casing Volume (LWC*C) = Free Product Thickness MW-4 Fotal Well Depth (TWD) 3 Casing Volumes = 3 X Well Diameter (D) Well # Date/Time 35630-32 11929 324976 Terence Livingston & Ivan lazziary Conductivity Sensor: Received by Site ID# Sunny serial no. Standard Standard Standard Standard 7 Quality Assurance Chain of Custody Date/Time Facility Name: Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) 80/60/60 General weather Conditions Relinquished by Field Personnel pH Sensor: 3H = 10.0pH =4.0 serial no. pH = 7.0pH = 7.0

	Initial	1st Vol.	1st Vol. 2nd Vol. 3rd Vol. 4th Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)									
Time (military)									
pH (s.u)									
Specific Conductivity									
Water Temperature (°C)									
Turbidity (subjective: clear, slightly cloudy, cloudy)									
Dissolved Oxygen (mg/l)									

Remarks: Well contained 0.96' of free product and was not sampled.



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Sample feet(ft) gals gals gals 'If free product is present over 1/8 inch, sampling wiil not be required. 29.00 1.65 0.28 0.84 0.0 Post inch of (Standard Purge Volume) 29.00 27.35 ۲ 5th Vol. Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 1.65 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = Free Product Thickness MW-5 Total Well Depth (TWD) Casing Volumes = 3 X 3rd Vol. Well Diameter (D) 2nd Vol. Well # Date/Time 35630-32 1st Vol. 324976 11929 0.0 Terence Livingston & Ivan lazziary Initial Received by Conductivity Sensor: Site ID# Sunny Standard Standard Standard 7 Standard serial no. Quality Assurance Chain of Custody Date/Time Facility Name: Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) Volume Purged (gallons) 80/60/60 General weather Conditions Relinquished by Field Personnel pH Sensor: 0.7 = Hq3H = 10.0serial no. pH = 7.0pH =4.0

Remarks: Well was sampled on 9/9/08 at 0925.

cloudy

urbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C

Specific Conductivity

Fime (military)

(n.s) Hd

249.0

23.4

0925

5.74



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Sample feet(ft) gals gals If free product is present over 1/8 inch, sampling wiil not be required. 29.00 0.84 1.65 0.28 0.0 Post (Standard Purge Volume) inch of 29.00 27.35 0.42 5th Vol. Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 1.65 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) I Casing Volume (LWC*C) = Free Product Thickness MW-6 Fotal Well Depth (TWD) 3 Casing Volumes = 3 X 3rd Vol. Vell Diameter (D) 2nd Vol. Well # Date/Time 35630-32 1st Vol. 324976 11929 Terence Livingston & Ivan lazziary Initial Received by Conductivity Sensor: Site ID# Sunny Standard Standard Standard serial no. Standard 24 Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 7.0 4.0 Ambient Air Temperature (°C) Volume Purged (gallons) 80/60/60 General weather Conditions Relinquished by Fime (military) Facility Name: Field Personnel oH Sensor: 3H = 10.0(n·s) Ha 0.7 = HqpH =4.0 pH = 7.0serial no. Date

Remarks: Well contained 0.42' of free product and was not sampled.

Furbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C

Specific Conductivity



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Sample feet(ft) gals gals gals If free product is present over 1/8 inch, sampling will not be required. 32.80 16.73 32.80 5.58 0.0 Post ### (Standard Purge Volume) inch of 32.80 Ϋ́ 17 5th Vol. otal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 32.80 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = *Free Product Thickness Total Well Depth (TWD) MW-7 3 Casing Volumes = 3 X 3rd Vol. Nell Diameter (D) 2nd Vol. Well # Date/Time 35630-32 1st Vol. 11929 324976 Terence Livingston & Ivan lazziary Initial Received by Conductivity Sensor: Site ID# Sunny Standard serial no. Standard Standard Standard 24 Quality Assurance Chain of Custody Date/Time Facility Name: Fmr Ryder Truck Terminal Oakton 35630-62 324976 0.4 7.0 Ambient Air Temperature (°C) Volume Purged (gallons) 80/60/60 General weather Conditions Specific Conductivity Relinquished by Time (military) Field Personnel pH Sensor: 3H = 10.0serial no. PH = 7.0pH (s.u) pH = 7.0pH =4.0

Remarks: Well was inaccessible and not sampled.

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)



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		feet(ft)							#	gals	gals				gals			Sample				
		29.80				Ħ	Ħ	321	29.80	5.07	15.20				0.0	be required.	-	Post				
		inch of	•			A/N	29.80			_ = 71. ×	,	- Volume)			ling .	pling wiil not) -	5th Vol.				
		2	(D/2)^2	C = 0.163	C = 0.652		i	į	= TWD-DGW	x 29.80	5.07	(Standard Purge Volume)			Before Samp	1/8 inch, sam		4th Vol. 51				
MW-8		(D) Je	conversion factor (C): 3.143*(D/2)^2	for a 2 inch well $C = 0.163$	for a 4 inch well C = 0.652	≾ Thickness	epth (TWD)	Depth to Groundwater (DGW)	Length of Water Colum (LWC = TWD-DGW)	1 Casing Volume (LWC*C) =	nes=3 X	•			Total Volume of Water Purged Before Sampling	*If free product is present over 1/8 inch, sampling will not be required.		3rd Vol. 4th				
Weli#		Well Diameter (D)	conversion fa			*Free Product Thickness	Total Well Depth (TWD)	Depth to Gro	Length of Wa	1 Casing Volun	3 Casing Volumes = 3 X	ı			Total Volume	*If free produ	:	2nd Vol.				
					11929				35630-32	Г							Date/Time	1st Vol.				
	an lazziary				#				Sensor:								Received by	Initial				
	Terence Livingston & Ivan	Sunny	24		Site ID#		irance		Conductivity Ser	serial no.	Standard	Standard	Standard	Standard	stody		Rece					
8	Terence		()		Fmr Ryder Truck Terminal		Quality Assurance		Oakton 35630-62	324976	4.0	7.0			Chain of Custody		Date/Time		(S)			
80/60/60		r Conditions	mperature (%		Fmr Ryde				Oakt								Relinquished by		yed (gallon	y)		4
Date	Field Personnel	General weather Conditions	Ambient Air Temperature(°C)		Facility Name:			-	pH Sensor:	serial no.	pH =4.0	Hd	pH = 7.0	pH = 10.0			Reling		Volume Purged (gallons)	Time (military	(n·s) Hd	7

Remarks: Well was inaccessible and not sampled.

Turbidity (subjective: clear, slightly cloudy, cloudy)
Dissolved Oxygen (mg/l)

Water Temperature (°C)



16

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feet(ft) gals gals gals If free product is present over 1/8 inch, sampling will not be required. 30.70 0.55 1.64 0.0 3.21 (Standard Purge Volume) inch of 30.70 27.49 Ϋ́ Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 3.21 0.55 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) *Free Product Thickness Casing Volume (LWC*C) = 6-MM Fotal Well Depth (TWD) Casing Volumes = 3 X Well Diameter (D) Well # Date/Time 35630-32 324976 11929 Terence Livingston & Ivan lazziary Conductivity Sensor: Received by Site ID# Sunny Standard 24 Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Facility Name: Fmr Ryder Truck Terminal Oakton 35630-62 324976 **4**.0 7.0 Ambient Air Temperature (°C) 80/60/60 General weather Conditions Relinquished by Field Personnel oH Sensor: 3H = 10.0serial no. pH = 7.0pH = 7.0pH =4.0

	loitial	1041/01	19/1 Pac	10/1 Page	1417 (417)	F41- 11-1		Ш	
	Hillian	131 VOI.	ISLAUI. ZIIU VOI. SIU VOI.	old vol.	4III VOI.	oth Vol.	Post	Sample	
Volume Purged (gallons)	0.0								
Time (military)	0937								
pH (s.u)	4.48								
Specific Conductivity	43.7								
Water Temperature (°C)	20.8								
Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy								
Dissolved Oxygen (mg/l)	4.56								

Remarks: Well was sampled on 9/9/08 at 0937.



Page 11 of 16

Date 09/09/08				Well #	MW-10					
Field Personnel Terence L	Terence Livingston & Ivan lazziary	ızziary		1						
General weather Conditions	Sunny		Š	Well Diameter (D)	<u>Q</u>	7	inch of	30.10	feet(ft)	
Ambient Air Temperature (°C)	24		8	nversion fact	conversion factor (C): 3.143*(D/2)^2	3*(D/2)^2				
Facility Name: Emr Ryder Trick Terminal	Site IO#	11000		نيت نيّ	for a 2 inch well C = 0.163	ell C = 0.163				
١		0.70		-	4 2 2	2000 - O II				
			¥-	*Free Product Thickness	Thickness	•	N/A	#,		
Quality Assurance	ırance		<u>L</u>	Total Well Depth (TWD)	th (TWD)		30.10	#		
			<u>8</u>	pth to Groun	Depth to Groundwater (DGW)	(s		, e		
pH Sensor: Oakton 35630-62	Conductivity Sensor:		35630-32 Le	ngth of Wate	r Colum (LW	Length of Water Colum (LWC = TWD-DGW)		2.78	₽	
serial no. 324976	serial no.	324976		1 Casing Volume (LWC*C) =	(LWC*C) =	2.78	× 17 =		slep	
	Standard		ွ	3 Casing Volumes = 3	` ×		Ш	142	alen Sien	
pH = 7.0	Standard			•		(Standard Purge Volume)	de Volume)		<u>}</u>	
pH = 7.0	Standard						,			
pH = 10.0	Standard									
Chain of Custody	stody		To	tal Volume o	f Water Purg	Total Volume of Water Purged Before Sampling	ηpling	0.0	gals	
			*	free product	is present ov	*If free product is present over 1/8 inch, sampling will not be required	mpling will no	of be required		
Relinquished by Date/Time	Received	d by Dat	Date/Time					-		
	iul	Initial 1st Vol.		2nd Vol. 3	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)		0.0								
Time (military)		1045								T
pH (s.u)		4.54								T -
Specific Conductivity		84.8								·
Water Temperature (°C)		25.4								T
Turbidity (subjective: clear, slightly cloudy, cloudy)	y, cloudy)	cloudy						-		7
Dissolved Oxygen (mg/l)		0.71								1
										1

Remarks: Well was sampled on 9/9/08 at 1045.



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of

12

MW-11		(D) 2 inch of 31.00 feet(ft)		for a 2 inch well C = 0.163	for a 4 inch well C = 0.652	*Free Product Thickness N/A ft	Total Well Depth (TWD) 31.00 ft	Depth to Groundwater (DGW)	Length of Water Colum (LWC = TWD-DGW) 31.00 ft	1 Casing Volume (LWC*C) = 31.00 X .17 = 5.27 gals	3 Casing Volumes = 3 X 5.27 = 15.81 gals	(Standard Purge Volume)			Total Volume of Water Purged Before Sampling 0.0 gals	*If free product is present over 1/8 inch, sampling wiil not be required.		3rd Vol. 4th Vol. 5th Vol. Post Sample	
# Mell #		Well Diameter (D)	conve	1	11929	*Free	Total	Depth	35630-32 Length	324976 1 Casin	3 Casin				Total \	*If free	Date/Time	1st Vol. 2nd Vol.	
	Terence Livingston & Ivan lazziary	Sunny	24		Site ID# 11		surance		Conductivity Sensor:	serial no. 32	Standard	Standard	Standard	Standard	ustody		Received by	Initial	
80/60/60	Terence	Sonditions	erature (°C)		Fmr Ryder Truck Terminal		Quality Assurance		Oakton 35630-62	324976	4.0	7.0			Chain of Custody		shed by Date/Time		d (applicat)
Date	Field Personnel	General weather Conditions	Ambient Air Temperature (°C)		Facility Name:				oH Sensor:	serial no.	oH =4.0	0.7 = Hq	oH = 7.0	oH = 10.0			Relinquished by		Volume Purged (gallons)

Remarks: Well was inaccessible and not sampled.

Turbidity (subjective: clear, slightly cloudy, cloudy)
Dissolved Oxygen (mg/l)

Specific Conductivity
Water Temperature (°C)

pH (s.u)



Page 13 of

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ks: Well was sampled on 9/9/08 at 0947.



16

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)ate 09/09/08				Well #	MW-13					
ield Personnel	Terence	Terence Livingston & Ivan lazziary								
seneral weather Conditions		Sunny		Well Diameter (D)	<u>Q</u>	2	inch of	33.20	feet(ft)	
mbient Air Temperature (°C)		24		conversion factor (C): 3.143*(D/2)^2	tor (C): 3.143	*(D/2)^2				
					for a 2 inch well C = 0.163	II C = 0.163				
acility Name: Fmr Ryder Truck Terminal	Terminal	Site ID#	11929	—	for a 4 inch well C = 0.652	II C = 0.652				
				*Free Product Thickness	Thickness		A/A	¥		
	Quality Assurance	urance		Total Well Depth (TWD)	th (TWD)	•	33.20	, 4 =		
				Depth to Groundwater (DGW)	ndwater (DGW	· ~	27.41	, ==		
H Sensor: Oakton 35630-62	0-62	Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	er Colum (LWC	: = TWD-DGV	S	5.79	₽	
erial no. 324976		serial no.	324976	1 Casing Volume (LWC*C) =	(LWC*C) =	5.79	X .17 ==	0.98	gals	
H =4.0 4.0		Standard		3 Casing Volumes = 3 X	s=3 ×	0.98	11	2.95	gals	
H = 7.0		Standard			10	(Standard Purge Volume)	ge Volume)		İ	
H = 7.0		Standard								
H = 10.0		Standard								
	Chain of Custody	ustody		Total Volume of Water Purged Before Sampling	of Water Purge	d Before Sam	pling	0.0	gals	
				*If free product is present over 1/8 inch, sampling wiil not be required.	is present ove	er 1/8 inch, sa	mpling wiil no	ot be required		
Relinquished by	Date/Time	Received by	Date/Time							
		Initial	1st Vol.	2nd Vol.	3rd Vol. 4	4th Vol.	5th Vol.	Post	Sample	
olume Purged (gallons)		0.0								
imo (militany)		10051	_							

Well was sampled on 9/9/08 at 0951. Well had a light sheen and strong petroleum odor. Remarks:

clear 0.52

Turbidity (subjective: clear, slightly cloudy, cloudy) Dissolved Oxygen (mg/l)

Specific Conductivity Water Temperature(°C)

(n.s) Ha

56.6 24.3



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Date	80/60/60					Well #	MW-14						
Field Personnel		Terence	Terence Livingston & Ivan	l lazziary				1					
General weather Conditions	Conditions		Sunny			Well Diameter (D)	er (D)	2	inch of	32	32.00 fe	feet(ft)	
Ambient Air Temperature (°C)	perature (°C)		24			conversion fa	conversion factor (C): 3.143*(D/2)^2	43*(D/2)^2	ī				
	•				_ 		for a 2 inch w	for a 2 inch well C = 0.163					
Facility Name:	Fmr Ryder Truck Terminal	k Terminal	Site ID#	11	11929		for a 4 inch w	for a 4 inch well C = 0.652					
			·			*Free Product Thickness	at Thickness		A/N	¥			
		Quality Assurance	urance			Total Well Depth (TWD)	epth (TWD)		32.00	, ⊭			
						Depth to Gro	Depth to Groundwater (DGW)	(M	28.20	#			
pH Sensor:	Oakton 35630-62	30-62	Conductivity Ser	nsor:	35630-32	Length of Wa	Length of Water Colum (LWC = TWD-DGW)	VC = TWD-DC	3W)	સ	3.80 ft		
serial no.	324976	2	serial no.	32	324976	1 Casing Volume (LWC*C) =	ne (LWC*C) =	3.80	X .17	0.0	0.65 gals	<u>s</u>	
pH =4.0	4.0		Standard			3 Casing Volumes = 3 X	nes=3 X	0.65	" I	=	1.94 gals	<u>s</u>	
pH = 7.0	7.0		Standard					(Standard Pu	(Standard Purge Volume)				
pH = 7.0			Standard						,				
pH = 10.0			Standard										
	-	Chain of Custody	ustody			Total Volume	Total Volume of Water Purged Before Sampling	ged Before Sa	ampling	0	0.0 ga	gals	
						*If free produ	"If free product is present over 1/8 inch. sampling will not be required.	ver 1/8 inch. s	samplina wiil r	ot be red	uired		
Relingu	Relinquished by	Date/Time	Received by	∍d by	Date/Time	_) -				
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Š	Sample	
Volume Purged (gallons)	ed (gallons)			0.0									
Time (military)	7)			1013		-							
(n·s) Hd				5.15									

t 1013.
d on 9/9/08 at 1013.
Well was sampled on 9
ell was sa
:.i
emark

cloudy 0.88

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Nater Temperature (°C)

Specific Conductivity

86.5 22.9



16

of

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Sample feet(ft) gals gals gals *If free product is present over 1/8 inch, sampling wiil not be required. 33.50 0.84 2.52 0.0 Post (Standard Purge Volume) inch of 33.50 28.55 0.29 5th Vol. Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163for a 4 inch well C = 0.652 4.95 0.84 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = MW-15 Free Product Thickness Total Well Depth (TWD) 3 Casing Volumes = 3 X 3rd Vol. Well Diameter (D) 2nd Vol. Well # Date/Time 35630-32 1st Vol. 324976 11929 Terence Livingston & Ivan lazziary Initial Conductivity Sensor: Received by Site ID# Sunny serial no. Standard Standard Standard Standard 24 Quality Assurance Chain of Custody Date/Time Facility Name: Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) Volume Purged (gallons) 80/60/60 General weather Conditions Relinquished by Field Personnel pH Sensor: pH = 10.0serial no. pH =4.0 pH = 7.0pH = 7.0

Remarks: Well contained 0.29' of free product and was not sampled.

Furbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

Time (military)

(n.s) Hd

APPENDIX B

LABORATORY DATA SHEETS



Printed: 09/21/08 11:11pm

TREVOR BENTON
BUNNELL-LAMMONS ENGINEERS
6C04 PONDERS CT
GREENVILLE, SC 296154601

Regarding:

TREVOR BENTON
BUNNELL-LAMMONS ENGINEERS
6004 PONDERS CT
GREENVILLE, SC 296154601

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL

Job Name: FMR RYDER TRUCK TERMINAL

Job ld: JO8-1810-12

Collected by: Customer Sampled

Inv. No: 220133

aboratory Client Sample # Sample # L262172-1 MW-1 L262172-2 MW-2D _262172-3 MW-3R .262172-4 MW-5 _262172-5 MW-9 L262172-6 MW-10 _262172-7 MW-12 L262172-8 MW-13 262172-9 MW-14

All analyses were performed using EPA, ASTM, NIOSH, USGS, or Standard Methods and certified to meet NELAC requirements. Flags: ND or U-below PQL; IL-meets internal lab limits;MI-matrix interference; NA-not applicable. Flags: CFR-Pb/Cu rule; NFL-no free liquids; DRY = dry wt; ASIS = wet wt; C(#) See attached USB code LDEP Flags: J(#)-estimated l:surr. fail 2:no known QC req. 3:QC fail %R or %RPD; 4:matrix int. 5:improper fld. protocol; Lexceeds calibration; Q-holding time exceeded; FLDEP Flags: T-value<MDL; V-present in blank; Y-improper preservation; B-colonies exceed range; I-estimated value; between the MDL and PQL; Lab certification IDs: FLDOH/NELAC E86240; NC 444; SC 96031001; IL/NELAC 200020; VA 00395; KS/NELAC E-10360; TN 02985; GA 917; NJ L014; PA 68-03756; Lab IDs: ADEM 40850; USDA Soil Permit# S-35240; The above results relate only to the samples. EPA 18 is a non-NELAC certifiable parameter. Estimated uncertainty is available upon request.

enapure Analytical Services, Inc. 3231 NW 7th Avenue Boca Raton, FL 33431 (888)862-5227

age 1 of 10

Serial Number: 679926

Respectfully submitted,

on Tiffany Mackie Project Manager

Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JO8-1810-12

Inv. No: 220133

Sample Number Sample Description Samp. Date/Time/Temp

MW-1 09/09/08 09:05am NA C

Receive Date Sampled by

09/10/08
Customer Sampled
4 C Iced (Y/N): Y Received Temp

L262172-1

Recen	ved lemp 4 C	iced (Y/N): Y					
Parameter	Method	Result		DIL	PQL	Prep Date	Test Date,	Analys
Volatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/1	1	2.0	N/A	09/18/08	LN
-XYLENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
YLENES (TOTAL)	5030/8260	U	ug/1	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
URROGATES	% R	ECOVERY		% Re	covery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	101	%	1	69-134		09/18/08	LN
OLUENE-D8 (SURR)	5030/8260	97	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	104	%	1	64-130		09/18/08	LN
etals Analysis EAD	3010/6010B	0.0352	mg/1	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	U	ug/1	1	0.010	09/11/08	09/12/08	LR
URROGATES	% R	ECOVERY		% Re	covery Limits			
BROMOFLUOROBENZENE (SURR)	8011	72	%	1	60-140	09/11/08	09/12/08	LR

Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JO8-1810-12

Inv. No: 220133

0.010

% Recovery Limits

60-140

1

09/11/08

09/11/08

09/13/08

09/13/08

LR

LR

Sample Number Sample Description Samp. Date/Time/Temp Receive Date

Received Temp

8011

8011

L262172-2

MW-2D 09/09/08 10:24am NA C

09/10/08 Sampled by

Customer Sampled 4 C Iced (Y/N): Y

Parameter	Method	Result		DIL	PQL	Prep Date	Test Date,	Analvs
Wolatile Organic Compounds			Marie Control of Contr					.
METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/1	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
SURROGATES	% F	RECOVERY		% R	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	100	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	98	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	104	%	1	64-130		09/18/08	LN
Metals Analysis LEAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG

ug/1

%

EDB by 8011 1,2-DIBROMOETHANE

BROMOFLUOROBENZENE (SURR)

SURROGATES

U

88

% RECOVERY

Printed: 09/21/08 11:11pm

Inv. No: 220133

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JOB-1810-12

Sample Number Sample Description Samp. Date/Time/Temp Receive Date

Sampled by

L262172-3 MW-3R 09/09/08 09:20am NA C 09/10/08 Customer Sampled 4 C Iced (Y/N): Y

Recei	ved Temp 4 C	Iced (Y/N): Y					
Parameter	Method	Result		DIL	PQL	Prep Date	Test Date,	Analys
Volatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	5	F 0	At /A	00/10/00	1.11
1.2-DICHLOROETHANE		-	ug/1		5.0	N/A	09/19/08	LN
	5030/8260	U	ug/1	5	5.0	N/A	09/19/08	LN
BENZENE	5030/8260	23.2	ug/l	5	5.0	N/A	09/19/08	LN
TOLUENE	5030/8260	U	ug/1	5	5.0	N/A	09/19/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	5	5.0	N/A	09/19/08	LN
M&P-XYLENES	5030/8260	U	ug/1	5	10	N/A	09/19/08	LN
)-XYLENE	5030/8260	17.7	ug/1	5	5.0	N/A	09/19/08	LN
XYLENES (TOTAL)	5030/8260	17.7	ug/l	5	15	N/A	09/19/08	LN
NAPHTHALENE	5030/8260	63.2	ug/1	5	5.0	N/A	09/19/08	LN
SURROGATES	% F	ECOVERY		% R€	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	95	%	5	69–134		09/19/08	LN
OLUENE-D8 (SURR)	5030/8260	96	%	5	63–127		09/19/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	101	%	5	64-130		09/19/08	LN
letals Analysis LEAD	3010/6010B	0.0309	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	0.440	ug/1	1	0.010	09/11/08	09/13/08	LR
URROGATES	% R	ECOVERY		% Re	ecovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	95	%	1	60-140	09/11/08	09/13/08	LR

Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JO8-1810-12

Inv. No: 220133

Sample Number Sample Number
Sample Description
Samp. Date/Time/Temp
Receive Date
Sampled by
Received Temp

L262172-4 MW-5 09/09/08 09:25am NA C 09/10/08 Customer Sampled 4 C Iced (Y/N): Y

		` ′				Prep		
Parameter	Method	Result	····	DIL	PQL	Date	Test Date,	Analys
Volatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
O-XYLENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/1	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	1.91	ug/l	1	1.0	N/A	09/18/08	LN
SURROGATES	% F	RECOVERY		% R€	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	98	%	1	69-134		09/18/08	LN
TOLUENE-D8 (SURR)	5030/8260	100	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	101	0/ /o	1	64-130		09/18/08	LN
Metals Analysis LEAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
SURROGATES	% R	ECOVERY		% Re	covery Limits			
BROMOFLUOROBENZENE (SURR)	8011	87	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JO8-1810-12

Inv. No: 220133

Sample Number Sample Description Samp. Date/Time/Temp Receive Date

L262172-5 MW-9 09/09/08 09:37am NA C

09/10/08

Sampled by Received Temp Customer Sampled 4 C Iced (Y/N): Y

Receive	ed relip 4 C	iced (17N). T			Prep		
arameter	Method	Result		DIL	PQL	Date	Test Date,	Ana 1 ys
folatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
,2-DICHLOROETHANE	5030/8260	Ü	ug/1	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
THYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
)-XYLENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/l	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
URROGATES	% R	ECOVERY		% R	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	107	%	1	69-134		09/18/08	LN
OLUENE-D8 (SURR)	5030/8260	98	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	102	%	1	64-130		09/18/08	LN
Metals Analysis EAD	3010/6010B	0.459	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	U	ug/1	1	0.010	09/11/08	09/13/08	LR
SURROGATES	% R	ECOVERY		% Re	ecovery Limits	,,	The latest the second s	
BROMOFLUOROBENZENE (SURR)	8011	75	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926

ANALYTICAL RESULTS Printed: 09/21/08 11:11pm

Inv. No: 220133

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JO8-1810-12

Sample Number Sample Description Samp. Date/Time/Temp L262172-6 MW-10 09/09/08 10:45am NA C 09/10/08

Receive Date

Sampled by Received Temp Customer Sampled
4 C Iced (Y/N): Y

Receiv	eatemp 4 C	Iced (Y/N)): Y			Dron		
Parameter	Method	Result		DIL	PQL	Prep Date	Test Date,	Analys
Volatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
1,2-DICHLOROETHANE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
ETHYL BENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/1	1	2.0	N/A	09/18/08	LN
D-XYLENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/1	1	3.0	N/A	09/18/08	LN
NAPHTHALENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
SURROGATES	% F	RECOVERY		% Re	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	101	%	1	69–134		09/18/08	LN
FOLUENE-D8 (SURR)	5030/8260	99	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	108	%	1	64-130		09/18/08	LN
Metals Analysis LEAD	3010/6010B	0.420	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	U	ug/1	1	0.010	09/11/08	09/13/08	LR
SURROGATES	% R	ECOVERY		% Re	covery Limits			
BROMOFLUOROBENZENE (SURR)	8011	96	%	1	60-140	09/11/08	09/13/08	LR

ANALYTICAL RESULTSPrinted: 09/21/08 11:11pm

Inv. No: 220133

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL ob ld: JO8-1810-12

Sample Description Samp. Date/Time/Temp

L262172-7 MW-12 09/09/08 09:47am NA C 09/10/08

Receive Date
Sampled by
Received Temp

Sample Number

Customer Sampled 4 C Iced (Y/N): Y

Receiv	red remp 4 C	iced (Y/N): Y			Prep		
arameter	Method	Result		DIL	PQL	Date	Test Date,	Analys
olatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	11.8	ug/l	1	1.0	N/A	09/18/08	LN
,2-DICHLOROETHANE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
ENZENE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
THYL BENZENE	5030/8260	U	ug/1	1 .	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/1	1	2.0	N/A	09/18/08	LN
-XYLENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	U	ug/1	1	3.0	N/A	09/18/08	LN
MAPHTHALENE	5030/8260	U	ug/1	1	1.0	N/A	09/18/08	LN
URROGATES	% R	RECOVERY		% R	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	100	%	1	69-134		09/18/08	LN
OLUENE-D8 (SURR)	5030/8260	98	%	1	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	107	%	1	64-130		09/18/08	LN
etals Analysis EAD	3010/6010B	0.0245	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	U	ug/l	1	0.010	09/11/08	09/13/08	LR
URROGATES	% R	ECOVERY		% Re	ecovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	89	%	1	60-140	09/11/08	09/13/08	LR

Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL lob Name: FMR RYDER TRUCK TERMINAL lob ld: JO8-1810-12

Inv. No: 220133

Sample Number Sample Description Samp. Date/Time/Temp Receive Date

L262172-8 MW-13 09/09/08 09:51am NA C 09/10/08

Customer Sampled
4 C Iced (Y/N): Y Sampled by Received Temp

Receiv	red Temp 4 C	Iced (Y/N): Y			Prep		
arameter	Method	Result		DIL	PQL	Date	Test Date,	Analys
iolatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	20	20	N/A	09/18/08	LN
,2-DICHLOROETHANE	5030/8260	U	ug/1	20	20	N/A	09/18/08	LN
ENZENE	5030/8260	77.0	ug/l	20	20	N/A	09/18/08	LN
TOLUENE	5030/8260	U	ug/1	20	20	N/A	09/18/08	LN
THYL BENZENE	5030/8260	U	ug/l	20	20	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/1	20	40	N/A	09/18/08	LN
-XYLENE	5030/8260	82.0	ug/1	20	20	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	101	ug/l	20	60	N/A	09/18/08	LN
APHTHALENE	5030/8260	226	ug/l	20	20	N/A	09/18/08	LN
URROGATES	% F	RECOVERY		% R€	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	99	%	20	69-134		09/18/08	LN
OLUENE-D8 (SURR)	5030/8260	98	%	20	63-127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	100	%	20	64-130		09/18/08	LN
etals Analysis EAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	0.162	ug/l	1	0.010	09/11/08	09/13/08	LR
URROGATES	% F	RECOVERY		% Re	ecovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	92	%	1	60-140	09/11/08	09/13/08	LR

Page 9 of 10

Serial Number: 679926

Printed: 09/21/08 11:11pm

Project No: 004037 FMR RYDER TRU, FMR RYDER TRUCK TERMINAL Job Name: FMR RYDER TRUCK TERMINAL Job Id: JO8-1810-12

Inv. No: 220133

Sample Number Sample Description Samp. Date/Time/Temp

L262172-9 MW-14 09/09/08 10:13am NA C

Receive Date
Sampled by
Received Temp

09/10/08 Customer Sampled 4 C Iced (Y/N): Y

kece i	ved remp 4 C	icea (Y/r	N): Y					
Parameter	Method	Result		DIL	PQL	Prep Date	Test Date,	.Analys
Volatile Organic Compounds METHYL TERTIARY BUTYLETHER	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
.,2-DICHLOROETHANE	5030/8260	U	ug/l	1	1.0	N/A	09/18/08	LN
BENZENE	5030/8260	82.4	ug/l	1	1.0	N/A	09/18/08	LN
JOLUENE	5030/8260	3.81	ug/1	1	1.0	N/A	09/18/08	LN
THYL BENZENE	5030/8260	54.8	ug/l	1	1.0	N/A	09/18/08	LN
M&P-XYLENES	5030/8260	U	ug/l	1	2.0	N/A	09/18/08	LN
-XYLENE	5030/8260	67.1	ug/1	1	1.0	N/A	09/18/08	LN
XYLENES (TOTAL)	5030/8260	67.1	ug/l	1	3.0	N/A	09/18/08	LN
MAPHTHALENE	5030/8260	75.0	ug/l	1	1.0	N/A	09/18/08	LN
URROGATES	% F	RECOVERY		% Re	ecovery Limits			
DIBROMOFLUOROMETHANE (SURR)	5030/8260	99	%	1	69-134		09/18/08	LN
OLUENE-D8 (SURR)	5030/8260	99	%	1	63–127		09/18/08	LN
4-BROMOFLUOROBENZENE (SURR)	5030/8260	101	%	1	64-130		09/18/08	LN
etals Analysis EAD	3010/6010B	U	mg/l	1	0.010	09/15/08	09/17/08	IG
EDB by 8011 1,2-DIBROMOETHANE	8011	0.118	ug/l	1	0.010	09/11/08	09/13/08	LR
URROGATES	% R	ECOVERY		% Re	ecovery Limits			
BROMOFLUOROBENZENE (SURR)	8011	91	%	1	60-140	09/11/08	09/13/08	LR

Serial Number: 679926



Genapure
Analytical Services, Inc.

3231 NW 7th Ave., Boca Flaton, FL 33431 www.genapure.com

Log# 又らていって CHAIN OF CUSTODY RECORD

Quote:

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Fig. Shore Sample Pry Shristered vap N.C. Place Jan 2011. Page Jan 2012. Page Jan 2012. Page Jan 2014. Page Jan

Contaline Type Codes

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Genapure Project Sampler/ Signature Company Name: 7% llem Name emain ø City of the Samuel Address: P. A. C. RESERVEDE REINE 1 1 N 2 - a TAR MARIN DENG. Np-23 3 Para IN 7.8 - 17 7.1 - 3.7 T マルー マミニチ WW-: Telephone:888-862-LABS or 561-447-7373 Fax: 888-456-4846 or 561-447-6136 Revision G101007 Date Angelina) Relinquished by Q. No March でいました 100 XX - 100 XXX - 1010 - 17 ながつまかので 4 8/16/04 11:35 State Collect Date S S 0375 Affiliation 0357 発き 313V Collega Phone# Soft 128-1210 800 12 th 23 À TO TO Matrix Code" 30 9 Ş B A 1200 Field Filtered Integrity OK(Y/N) Total # et containers 3 * Date 19/08 4 \mathcal{O} Time 1100 e d TAC **Parameters** GA/OC Report Level N BIEX, . دع 8160 Á ROU EUB Conec 4 7 Received by せる LEND (-) 4 LAB ANALYSIS 1 Affilk-lifon 000 OK V ★ of Cantainers
SizeType Q 1 EXAMPLE Frontier date had Plustin, box5, refor \$0.1 der \$0.00 de Custody seals imad? Sample INTACT upon strival?
Received on Wellige? Yearp C Proper Considers Used? folatiko ren o without headspane? Proper Preservatives Indicated of Preceived within hooling time? F\$#9#88 Petroleum Nonagrieous Misc. Liquid Ground Water Splic Wages Lab Use Only Matrix Codes REMARKS Coolers #s F MeOH
G. NaviSOO Other (Please Spirchy) Waste Water Artifyte From Witter Source Water L Ice J. MCAA K. Zo Acagus O. Other

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Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

Field Sample ID	Laboratory Sample ID	Date of Collection
MW-1	L241872-1	08/18/08
MW-2	L241872-2	08/18/08
MW-3	L241872-3	08/18/08
MW-4A	L241872-4	08/18/08
MW-4B	L241872-5	08/18/08
MW-5	L241872-6	08/18/08
MW - 6	L241872-7	08/18/08
MW - 7	L241872-8	08/18/08
MW - 8	L241872-9	08/18/08
MW - 9	L241872-10	08/18/08

Log No.L241872

pages (including cover sheet)

Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

Field Sample ID	Laboratory Sample ID	Date of Collection
NT a G		
MW-10	L241872-11	08/18/08
MW-11	L241872-12	08/18/08
MW-13	L241872-13	08/18/08
MW-15	L241872-14	08/18/08
MW-16	L241872-15	08/18/08
MW-18	L241872-16	08/18/08
MW-19	L241872-17	08/18/08
TW-1	L241872-18	08/18/08
TW-2	L241872-19	08/18/08
TW-3	L241872-20	08/18/08

Log No.L241872

____ pages (including cover sheet)

Genapure Analytical Services, Inc.

Level I QA

FOR

GEOLOGICAL RESOURCES (NC)

GEOLOGICAL RESOURCES (NC)

Field Sample ID Date of Collection

CREEK L241872-21 08/18/08

Log No.L241872

_____ pages (including cover sheet)

Qa Information for Login usb_qa_export.idxl LZ41872

Volatiles Analy	Volatiles Analy	Volatiles Analy	Volatiles Analy	Volatiles Analy	Volatiles Analy	Volatiles Analy	Subcontracted W	Subcontracted N	Subcontracted W	Subcontracted W	Dept																	
GM	GW	GW	GW	GN	GW	en ยก	GN	GW	GM.	вw	GW	GN	GU	GN	GN	GU	GN.	M9	GW	GW	GM	GW	GM	GN)	GN	ଜ୍ୟ	MB	Matrix
8260BTEXNAP	8260BTEXNAP	8260BTEXNAP	8260BTEXNAP	8260BTEXNAP	8260BTEXNAP	8260BTEXNAP	SUB-82600XY-SHEALY	Product																				
2G082208VM	26082208VM	2G082208VM	2G082208VH	2G082208VM	2G082208VIII	2G082208VM																						Workgroup
2G082208VM	2G082208VM	2G082208VM	2G082208VM	26082208VM	2G082208VM	26082208VM	SHEALY 0825	RunID																				
872-15	872-14	872-13	872-12	872-11	872-10	872-1	872-9	872-8	872-7	872-6	872-5	872-4	872-3	872-21	872-20	872-2	872-19	872-18	872-17	872-16	872-15	872-14	872-13	872-12	872-11	872~10	872-1	

Qa Information for Login usb_qa_export.idxl L241872

Dept	Hatrix	Product	Workgroup	RunID	
Volatiles Analy	GW	8260BTEXNAP	26082208VM	2G082208VM	872-16
Volatiles Analy	GN	8260BTEXNAP	26082208VM	26082208VM	872-17
Volatiles Analy	M	8260BTEXNAP	26082208VM	2G082208VM	872-18
Volatiles Analy	MD	8260BTEXNAP	1G08Z308VM	16082308VM	872-19
Volatiles Analy	GM	8260BTEXNAP	2G082208VM	2G082208VM	872-2
Volatiles Analy	СM	8260BTEXNAP	16082308vm	1G082308VM	872-20
Volatiles Analy	GN	8260BTEXNAP	16082308VM	16082308VM	872-21
Volatiles Analy	GW	8260BTEXNAP	2G082508VM	26082508vM	872-3
Volatiles Analy	МЭ	8260BTEXNAP	2G082508VM	2G082508VM	872-4
Volatiles Analy	GW.	8260BTEXNAP	26082508VM	2G082508VM	872-5
Volatiles Analy	GM.	82608TEXNAP	.2G082208VM	2G082208VM	872-6
Volatiles Analy	GW	8260BTEXNAP	2G082208VM	26082208VM	872-7
Volatiles Analy	GW.	8260BTEXNAP	2G082208VM	26082208VM	872-8
Volatiles Analy	G€	8260BTEXNAP	2G082208VM	26082208VM	872-9

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ84625-001

Batch: 84625

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	ug/L	08/21/2008 2003
tert-Amyl methyl ether (TAME)	ND		1	1.0	ug/L	08/21/2008 2003
tert-Butyl formate (TBF)	ND		1	5.0	ug/L	08/21/2008 2003
Diisopropyl ether (IPE)	ND		1	1.0	ug/L	08/21/2008 2003
Ethanol	ND		1	100	ug/L	08/21/2008 2003
Ethyl tert-butyl alcohol (ETBA)	ND		1	20	ug/L	08/21/2008 2003
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	ug/L	08/21/2008 2003
tert-butyl alcohol (TBA)	ND		1	20	ug/L	08/21/2008 2003
Surrogate	Q % Rec	Accepta Limi			ÿ	2 3.2 1/2000 2000
Bromofluorobenzene	93	70-13	30			
1,2-Dichloroethane-d4	96	70-13	30			
Toluene-d8	109	70-13	30			

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and > MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: JH20011

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JO84625-002

Batch: 84625

Analytical Method: 82608

Matrix: Aqueous Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	990	1	99	40-130	08/21/2008 1855
tert-Amyl methyl ether (TAME)	50	49	1	98	40-130	08/21/2008 1855
tert-Butyl formate (TBF)	250	250	1	99	40-130	08/21/2008 1855
Diisopropyl ether (IPE)	50	51	1	103	70-130	08/21/2008 1855
Ethanol	5000	4600	1	92	40-130	08/21/2008 1855
Ethyl tert-butyl alcohol (ETBA)	1000	1000	1	102	40-130	08/21/2008 1855
Ethyl-terf-butyl ether (ETBE)	50	48	1	97	40-130	08/21/2008 1855
tert-butyl alcohol (TBA)	1000	980	1	98	40-130	08/21/2008 1855
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	94	70-130				
1,2-Dichloroethane-d4	93	70-130				
Toluene-d8	110	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ84625-003

Batch: 84625

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
terl-Amyl alcohol (TAA)	1000	970	1	97	2.2	40-130	20	08/21/2008 1917
tert-Amyl methyl ether (TAME)	50	50	1	101	2.5	40-130	20	08/21/2008 1917
tert-Butyl formate (TBF)	250	240	1	97	2.5	40-130	20	08/21/2008 1917
Diisopropyl ether (IPE)	50	50	1	101	1.7	70-130	20	08/21/2008 1917
Ethanol	5000	5000	1	101	9.2	40-130	20	08/21/2008 1917
Ethyl tert-butyl alcohol (ETBA)	1000	1000	1	101	0.86	40-130	20	08/21/2008 1917
Ethyl-tert-butyl ether (ETBE)	50	49	1	97	0.37	40-130	20	08/21/2008 1917
tert-butyl alcohol (TBA)	1000	860	1	86	13	40-130	20	08/21/2008 1917
Surrogate	Q % Rec	Acceptance Limit						
Bromofluorobenzene	94	70-130				*****	***	
1,2-Dichloroethane-d4	94	70-130				-		
Toluene-d8	111	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the PQL

 $J = Estimated \ result \leq PQL \ and \geq MDL$

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - MB

Sample ID: JQ84780-001

Batch: 84780

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Result	Q Dil	PQL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	ug/L	08/25/2008 0755
tert-Amyl methyl ether (TAME)	ND	1	1.0	ug/L	08/25/2008 0755
tert-Butyl formate (TBF)	ND	1	5.0	υg/L	08/25/2008 07:55
Diisopropyl ether (IPE)	ND	1	1.0	ug/L	08/25/2008 0755
Ethanol	ND	1	100	υg/L	98/25/2006 0755
Ethyl tert-butyl alcohol (ETBA)	ND	1	20	ug/L	08/25/2008 0755
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	ug/L	08/25/2008 0755
tert-butyl alcohol (TBA)	ND	1	20	ug/L	08/25/2008 0755
Surrogate	Q % Rec	Acceptance Limit		v	
Bromofluorobenzene	93	70-130			
1,2-Dichloroethane-d4	105	70-130			
Toluene-d8	107	70-130			

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the POL

J = Estimated result < PQL and > MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" *

Volatile Organic Compounds by GC/MS - LCS

Sample ID: JQ84780-002

Batch: 84780

Matrix: Aqueous

Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1200	1	117	40-130	08/25/2008 0650
tert-Amyl methyl ether (TAME)	50	45	1	90	40-130	08/25/2008 0650
tert-Butyl formate (TBF)	250	250	1	102	40-130	08/25/2008 0650
Diisopropyl ether (IPE)	50	47	1	94	70-130	08/25/2008 0650
Ethanol	5000	5800	1	116	40-130	08/25/2008 0650
Ethyl tert-butyl alcohol (ETBA)	1000	1000	1	103	40-130	08/25/2008 0650
Ethyl-tert-butyl ether (ETBE)	50	47	1	95	40-130	08/25/2008 0650
tert-butyl alcohol (TBA)	1000	1200	1	116	40-130	08/25/2008 0650
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	95	70-130		52	• • • • • • • • • • • • • • • • • • • •	
1,2-Dichloroethane-d4	105	70-130				
Toluene-d8	107	70-130				

POL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and ≥ MDL

+ - RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a " W°

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: JQ84780-003

Batch: 84780

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 50305

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% RPD	% Rec Limit	% RPD	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100	1	111	5.4	40-130	20	08/25/2008 0712
tert-Amyl methyl ether (TAME)	50	47	1	94	3.4	40-130	20	08/25/2008 0712
tert-Butyl formate (TBF)	250	250	1	100	1.2	40-130	20	08/25/2008 0712
Diisopropyl ether (IPE)	50	47	1	94	0.053	70-130	20	
Ethanol	5000	5500	1	110	4.9	40-130		08/25/2008 0712
Ethyl tert-butyl alcohol (ETBA)	1000	1000	1	100	3.5		20	08/25/2008 0712
Ethyl-tert-butyl ether (ETBE)	50	47	1	94		40-130	20	08/25/2008 0712
tert-butyl alcohol (TBA)	1000	1100	1	110	0.44 5.2	40-130 40-130	20 20	08/25/2008 0712 08/25/2008 0712
Surrogate	Q % Rec	Acceptance Limit					20	00.20.2000 07 12
Bromofluorobenzene	95	70-130	***************************************					
1,2-Dichloroethane-d4	105	70-130						•
Toluene-d8	108	70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N - Recovery is out of criteria

ND = Not detected at or above the PQL

J = Estimated result < PQL and > MDL

+ - RPO is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

QC Data for Lot Number: JH20011

Level 1 Report v2.1

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name

: S MAN EXPRESS

Parameter	Method	Units	Result	Pal	MDL	Flags
BEN7ENE	5030/8260	η/βn	С	1.00	0.31	
BENZENE	5030/8260	υg/ί	С	1.00	0.31	
BEN2ENE	5030/8260	η/βn	C	1.00	0.31	
ETHYL BENZENE	5030/8260	υg∕ί	С	1.00	0.31	
ETHYL BENZENE	5030/8260	1/6n	C	1.00	0.31	-
ETHYL BENZENE	5030/8260	ı/βn	U	1.00	0.31	
M&P-XYLENES	5030/8260	ı/βn	U	2.00	0.77	
M&P-XYLENES	5030/8260	ı/βn	U	2.00	0.77	
M&P-XYLEWES	5030/8260	η/fn	С	2.00	0.77	
METHYL TERTIARY BUTYLETHER	5030/8260	1/6n	U	1.00	0.12	
METHYL TERTIARY BUTYLETHER	5030/8260	ug/l	С	1.00	0,12	
METHYL TERTIARY BUTYLETHER	5030/8260	ug/l	U	1.00	0,12	
NAPHTHALENE	5030/8260	ug/l	U	1.00	0,41	
NAPHTHALENE	5030/8260	ug/t	U	1.00	0.41	
NAPHTHALENE	5030/8260	1/βn	С	1.00	0.41	
O-XYLENE	5030/8260	ug/l	U	1.00	0.38	
0-XYLENE	5030/8260	ı/βn	U	1.00	0.38	
0-XYLENE	5030/8260	η/gn	C	1.00	0.38	

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : S MA

: S MAN EXPRESS

		-				
	1	\	98	**	5030/8260	TOLUENE-D8 (SURR)
	\	}	98	34	5030/8260	TOLUENE-D8 (SURR)
	1		98	%	5030/8260	TOLUENE-D8 (SURR)
)	}	104	*	5030/8260	DIBRCMOFLUOROMETHANE (SURR)
	1		101	>4	5030/8260	DIBROMOFLUOROMETHANE (SURR)
	1	,	102	%	5030/8260	DIBROMOFLUOROMETHANE (SURR)
)	*	92	%	5030/8260	4-BROMOFLUOROBENZENE (SURR)
	})	98	%	5030/8260	4-BROMOFLUOROBENZENE (SURR)
))	95	%	5030/8260	4-BROMOFLUOROBENZENE (SURR)
	1.2	3.00	C	1/6n	5030/8260	XYLENES (TOTAL)
	1.2	3.00	U	ug/l	5030/8260	XYLENES (TOTAL)
	1.2	3.00	U	ng/t	5030/8260	XYLENES (TOTAL)
	0.28	1.00	U	ng/ι	5030/8260	TOLUENE
	0.28	1.00	C	ng/ί	5030/8260	TOLUENE
	0.28	1.00	C	ug/l	5030/8260	TOLUENE
Flags	MDL	PQL	Result	Units	Method	Parameter

GENAPURE

LABORATORY CONTROL SAMPLE RESULTS

Test Report No.: L241872

Client Name ; GEOLOGICAL RESOURCES (NC)

Job Name : S MAN EXPRESS

Parameter			4	3	- 1	,		,			
Ме	Method	Units	Truevalue	Result	Rec. %	Result	Rec.%	Recovery Limits	₹₽D	RPD	Flags
BENZENE 50	5030/8260	ug/l	20.0	15.9	80	Z A	2	65-141	Z キ ス ネ	Z	
BENZENE 50	5030/8260	ug/l	20.0	16.5	83			65-141			
BENZENE 50	5030/8260	ug∕≀	20.0	16.9	85			65-141			
TOLUENE 50	5030/8260	η/βn	20.0	16.2	81			64-139			
TOLUENE 50	5030/8260	η/βn	20.0	16.4	82			64-139		_	
LOTOENE 20	5030/8260	ug/t	20.0	17.5	88			64-139			
4-BROMOFLUOROBENZENE (SURH) 50	5030/8260	η/βn	50.0	45.78	92			64-130			
4-BROMOFLUOROBENZENE (SURR) 50	5030/8260	ng/l	50.0	47.85	96			64-130			
4-BROMOFLUOROBENZENE (SURR) 50	5030/8260	η/βn	50.0	44 37	89			64-130			
DIBROMOFLUOROMETHANE (SURR) 50	5030/8260	1/6n	50.0	50,4	101			69-134			
DIBROMOFLUOROMETHANE (SURR) 50	5030/8260	ug/l	50.0.	49.79	100			69-134			
DIBROMOFLUOROMETHANE (SURR) 50	5030/8260	ug/l	50.0	52.81	106			69-134			
TOLUENE-D8 (SURR) 50	5030/8260	ı/6n	50.0	49.82	100			63-127			
TOLUENE-D8 (SURR) 50	5030/8260	ug/t	50.0	49.19	98			63-127			
TOLUENE-D8 (SURR) 50	5030/8260	1/6n	50.0	49.87	100	1	P	63-127	F-	-	

Spike Recovery: O out of 30 outside limits

Duplicate RPD: 0 out of 0 outside limits

Form No. WC5

GENAPURE

SPIKE/SPIKE DUPLICATE SAMPLE RESULTS

Test Report No.: L241872

Client Name : GEOLOGICAL RESOURCES (NC)

Job Name : S MAN EXPRESS

~					- manufacture of the second se							
Parameter	Sample Number	Method	Units	Result	Spike Conc.	Spiked Result	Spike Rec. %	Spike Dup Result	Spike Dup Spike Dup Recovery Result Rec.% Limits	Recovery Limits	% RPD RPD Limit	flags
BENZENE	L241871-1	5030/8260	۱/bn	828	20.0	1150 *	1610*	1200*	1860*	61-152	14.0 20	
BENZENE	1241872-4	5030/8260	η/fn	1180	20.0	3210 *	9100*	1280*	*00	61-152		
BENZENE	L241872-4	5030/8260	1/6n	1180	20.0	1470 *	1450*	1280*	\$00*	61-152	97.0± 20	-
TOLUENE	L241871-1	5030/8260	1/gu	21.0	20.0	343 *	1610*	349*	1640*	60-149	2.0 20	+
TOLUENE	L241872-4	5030/8260	η/gn	15.0	20.0	1680 *	8300*	16 0*	*		`	
TOLLENE	2/4072								,			
IOCUENE	L2418724	5030/8260	η/βn	15.0	20.0	184 *	845*	16.0*	\$ *	60-149	198.0* 20	
4-BROMOFLUOROBENZENE (SURR)	L241871-1	5030/8260	1/6n	ĵ	50.0	42.24	84	45.68	91	64-130		
4-BROMOFLUOROBENZENE (SURR)	L241872-4	5030/8260	ug/t)	50.0	42.58	85	44.68	89	64-130	1	+
4-BROMOFLUOROBENZENE (SURR)	L241872-4	5030/8260	ug/t)	50.0	44.58	89	44.68	89	64-130	1	
DIBROMOFLUOROMETHANE (SURR)	L241871-1	5030/8260	ng/≀	١	50.0	49.48	99	51.24	102	69-134	1	1
DIBROMOFLUOROMETHANE (SURR)	L241872-4	5030/8260	ug/۱		50.0	48.37	97	52.16	104	69-134	1	
DIBROMOFLUOROMETHANE (SURR)	L241872-4	5030/8260	η/βn)	50.0	48.97	98	52.16	104	69-134	1	+
TOLUENE-D8 (SURR)	L241871-1	5030/8260	η/βη		50.0	48.77	98	49.14	98	63-127	1	
TOLUENED8 (SURR)	L241872-4	5030/8260	η/βη	}	50.0	48.76	98	47.72	95	63-127)	
TOLUENE-D8 (SURR)	L241872-4	5030/8260	η/gn	}	50.0	48.67	97	47.72	95	63-127	\	1

^{*} BENZENE - Flag-MS and/or MSD recoveries outside control limits. However, LCS and/or LCSD within limits. Data reported.

Spike Recovery: 12 out of 30 outside limits

Duplicate RPD: 4 out of 6 outside limits

 $[\]star$ TOLUENE – Flag-MS and/or MSD recoveries outside control limits. However, LCS and/or LCSD within limits. Data reported.

C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

NOV 06 2008

MR ALLEN VAUGHN ESTATE OF ROBERT VAUGHN 4 E PARKER RD GREENVILLE SC 29611-3504

Re:

AFVR & Groundwater Sampling Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929; CA # 34322; MWA# UMW-22208 Release #2 reported February 25, 1997 Monitoring Report received October 23, 2008 Greenville County

Dear Mr. Vaughn:

The Underground Storage Tank (UST) Program of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the file and the next necessary scope of work is four Aggressive Fluid/Vapor Recovery (AFVR) events to remove free phase product from monitoring wells MW-2, MW-4, MW-6, and MW-15. Install three new monitoring wells in the locations indicated on the enclosed map. Approximately one month after completion of the AFVR events, a comprehensive groundwater sampling event should be completed to obtain current data. Samples from all monitoring wells should be collected and analyzed for BTEX, naphthalene, MTBE, by EPA method 8260B and EDB by EPA Method 8011, 8 RCRA metals, and lead by EPA method 6010. Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

Cost Agreement # 34322 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR, monitoring well installation, and groundwater sampling activities may proceed immediately upon receipt of this letter. The Assessment Report submitted at the completion of these activities should include the following:

A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field
personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather
conditions during the AFVR event.

A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.

- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.
- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.

The total volume of water recovered (gallons).

- The total volume of free phase product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.

A table documenting the free product thickness in each well before and after the recovery events.

- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.
- A narrative portion documenting current site conditions during the groundwater sampling event noting the
 names of field personnel, date, time, ambient air temperature, and general weather conditions during the
 sampling event. The report shall also contain well purging data,
 pH, specific conductivity, water temperature, PID readings (where applicable) and turbidity comments of the conductivity.

Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well
depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the
Program, shall be presented in tabular form. Historical and current groundwater laboratory analytical data for all
monitoring wells shall be presented in tabular format.

A groundwater elevation contour map of the site based on current groundwater potentiometric data.

- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.

Signature and seal by a professional geologist or engineer registered in the State of South Carolina.

Boring logs and 1903 forms

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An Assessment report and invoice are due within 90 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Program is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Program for the cost to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Department grants pre-approval for transportation of virgin petroleum impacted groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence or inquiries regarding this project, please reference **UST Permit # 11929**. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely

Stephanie Briney, Hydrogeologist

Corrective Action Section

Assessment and Corrective Action Division

Underground Storage Tank Program
Bureau of Land and Waste Management

enc:

Cost Agreement

Monitoring well approval

Site map

CC:

Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc)

Technical File (w/ enc)



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to: BLE, Inc.

(On behalf of): Mr. Allen Vaughn

Facility: Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit Number: 11929

County: Greenville

This approval is for the installation of three groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

- 1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
- 2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
- 3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
- 4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
- 5. If any of the information provided to the Department changes, notification to the Stephanie Briney (tel: 803-896-6323 or e-mail: brineysm@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
- 6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
- 7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: October 31, 2008

Approval #:

UMW-22208

Stephanie Briney, Hydrogeologist

Corrective Action Section

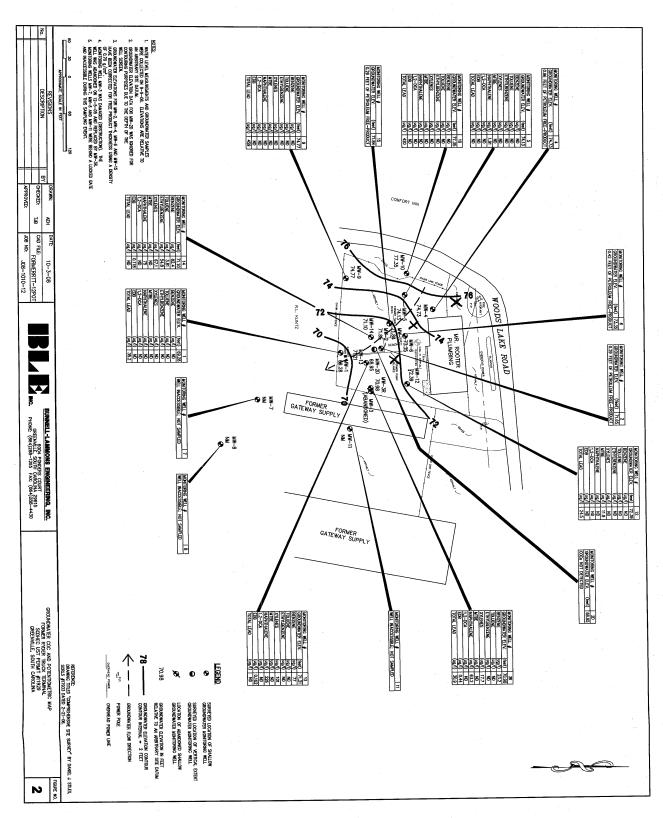
Underground Storage Tank Program
Bureau of Land and Waste Management

Approved Cost Agreement 34322

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	A EQUIPMENT	E 0000	F7F 00	
	B PERSONNEL	5.0000 7.0000	575.00	2,875.00
09 WELL INSTALLATION		7.0000	290.00	2,030.00
	B WATER TABLE (DRILLED)	105.0000	38.00	3,990.00
10 SAMPLE COLLECTION				
	A GROUND WATER	4.0000	55.00	
·	D GROUNDWATER NO-PURGE	15.0000	55.00	220.00
11 ANALYSES		13.0000	35.00	525.00
GW GROUNDWATER	A DIEV.MADILLATOR			
	A BTEX+NAPTH+MTBE	19.0000	100.00	1,900.00
	E LEAD	19.0000	20.00	380.00
	F EDB	19.0000	55.00	1,045.00
10. OLIDOFOLIEVE OLIDOFOLI	G GW 8 RCRA METALS	19.0000	140.00	2,660.00
16 SUBSEQUENT SURVEY				
	SUBSEQUENT SURVEY	1.0000	260.00	260.00
7 DISPOSAL				
	A1 WASTEWATER - PURGING/SAMPLING	3.0000	90.00	270.00
-	A2 WASTEWATER - PUMPING TEST	3,000.0000	0.60	1,800.00
	C SOIL (TREATMENT/DISPOSAL)	15.0000	50.00	750.00
9 RPT/PROJECT MNGT & COORDINATIO				700.00
	PCT PERCENT	0.1500	31,825.00	4,773.75
3 EFR			<u> </u>	.,
	A 8 HOUR EVENT	4.0000	3,000.00	12 000 00
	C OFF GAS TREATMENT	32.0000	35.00	12,000.00 1,120.00
		Total Amou	ınf	36.598.75



Mell location





May 11, 2009

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull St.
Columbia, SC 29201-1708

Attention:

Ms. Stephanie Briney

Hydrogeologist

Subject:

Report of Supplemental Environmental Activities

Former Ryder Truck Terminal Greenville, Greenville County UST Permit #11929; CA #34322 BLE Project No. J08-1010-13

Dear Ms. Briney:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has completed the installations of three groundwater monitoring wells, performed four aggressive fluid vapor recovery (AFVR) events, and conducted a site-wide groundwater sampling at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated November 06, 2008. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

PHONE (

(864) 288-4430



In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, and 2007 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. In a continued effort to remove free-product concentrations at the site SCDHEC has required this additional scope of work be performed.

COMPLETED SCOPE OF SERVICES

On November 19th and 20th, 2008 BLE personnel mobilized to the site to install three new on-site groundwater monitoring wells (MW-16, MW-17 and MW-18). The wells were installed to serve as additional AFVR extraction points within the source area (former UST basin) of the contaminant plume. After the installation of the wells was completed, two consecutive AFVR events were performed on wells MW-2, MW-4, MW-6, MW-15, MW-17, and MW-18 on December 12th and December 15th, 2008, followed by two additional consecutive AFVR events on January 20th and 21st, 2009. Approximately 30 days after the final AFVR event (February 23rd, 2009) a comprehensive groundwater sampling event was conducted to obtain current site data. This report presents the results of our activities

MONITORING WELL INSTALLATION

Three new groundwater monitoring wells, (MW-16, MW-17, and MW-18) were installed on November 19th and November 20th, 2008. Monitoring well locations are shown on Figure 2 through Figure 5. Monitoring well installation details and boring logs are provided in Appendix A. Monitoring well construction data is provided in Table 1.

The new well locations were surveyed by a South Carolina licensed surveyor (Daniel J. Stiles RLS, SC # 17933) to establish horizontal control and vertical elevations of the top of PVC casing and ground surface. Stabilized groundwater elevation measurements were related to a common site datum from which groundwater flow directions could be determined. The survey results are provided as Figure 3.





Drill cuttings generated during the installation of the monitoring wells were contained in 55-gallon drums, on-site. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix B.

DECEMBER 12, 2008 AFVR EVENT - EVENT #1

On December 12th, an 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur Environmental services, Inc (Excalibur) of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 0.15 of free-phase petroleum product in MW-4, and 0.63 feet of free-phase petroleum product in MW-17. The initial depth to groundwater/free-product readings in the source area wells (feet below the top of the PVC well casing (btoc)) were 29.01 (MW-4), 28.63 (MW-5), 29.76 (MW-12), and 29.69 (MW-17). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0900 and concluded at 1700. The general weather conditions observed during this period of time were clear to overcast; winds varied between 4 and 15 mph with an ambient temperature between 32 ° and 55° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 23 and 24.5 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in wells MW-5 and MW-12 to evaluate effective drawdown. Gauging data observed during the event is shown in Table 2.

Influent and effluent vapor concentrations were measured every 30 minutes throughout the event using a MiniRAE® 2000 photoionization detector (PID). The observed vapor concentrations are shown in Table 2.

At the completion of the AFVR event, a total volume of 100 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately six gallons of free-phase petroleum product was measured in the holding tanks by Excalibur personnel following the completion of the AFVR event. Please note, the measurement of free-product thickness in the recovery tank is affected by product emulsification with groundwater, which occurs as a result of the AFVR process. Additionally, petroleum product losses occur from volatilization during an AFVR event; therefore, the liquids may not have had sufficient time to





separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix B.

A total of approximately 1.67 pounds of gasoline vapor which is equivalent to approximately 0.27 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3.

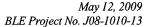
The source area monitoring wells were gauged immediately following the conclusion of the event and 0.03 feet of free-phase product was observed in MW-17. No free-product was observed in MW-4. Total water level changes level changes for this event are shown in Table 2.

DECEMBER 15, 2008 AFVR EVENT - EVENT #2

On December 15, 2008, an 8-hour AFVR event was conducted in monitoring wells MW-2, MW-6, MW-15, and MW-18. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 1.30 feet of free-phase petroleum product in MW-15, and 0.46 feet of free-phase petroleum product in MW-18. No free-phase product was detected in MW-2, and MW-6 was dry. The initial depth to groundwater/free-product readings in the source area wells (feet btoc) were 28.91 (MW-2), 28.66 (MW-5), 29.81 (MW-12), 29.76 (MW-15), and 29.62 (MW-18). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0930 and concluded at 1730. The general weather conditions observed during this period of time were clear to overcast; winds varied between 5 and 8 mph with an ambient temperature between 42 ° and 55° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 17 and 19.5 inches of mercury was applied to MW-2, MW-6, MW-15, and MW-18. In addition to collecting vacuum readings, the depth to water (feet btoc) was measured every 30 minutes in wells MW-5, MW-12, MW-14, and MW-2D to evaluate effective drawdown. Gauging data observed during the event is shown in Table 4.

Influent and effluent vapor concentrations were measured 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 4.





At the completion of the AFVR event, a total volume of 925 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately 11 gallons of free-phase petroleum product was measured in the holding tanks by Excalibur personnel following the completion of the AFVR event. Please note, the measurement of free-product thickness in the recovery tank is affected by product emulsification with groundwater which occurs as a result of the AFVR process. Additionally, petroleum product losses occur from volatilization during an AFVR event; therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix B.

A total of approximately 3.11 pounds of gasoline vapor which is equivalent to approximately 0.5 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 5.

The source area monitoring wells were gauged immediately following the conclusion of the event and no free-phase product was observed in MW-2, MW-15, or MW-18. However, 0.18 feet of free-phase petroleum product was observed in MW-6. Total water level changes for this event are shown in Table 4.

JANUARY 20, 2009 AFVR EVENT - EVENT #3

On January 20th, 2008, an 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 0.01 of free-phase petroleum product in MW-4 and 0.97 feet of free-phase petroleum product in MW-17. The initial depth to groundwater/free-product readings in the source area wells (feet btoc) were 28.84 (MW-4), 28.35 (MW-5), 29.81 (MW-12), and 29.91 (MW-17). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0945 and concluded at 1745. The general weather conditions observed during this period of time were clear; winds varied between 12 and 17 mph with an ambient temperature between 24° and 36° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum of 23 inches of mercury was applied to MW-4 and MW-17. In addition to





collecting vacuum readings, the depth to water (feet bloc) was measured every 30 minutes in wells MW-5 and MW-12 to evaluate effective drawdown. Gauging data observed during the event is shown in Table 6.

Influent and effluent vapor concentrations were measured 30 minutes throughout the event using a MiniRAE® 2000 PID. The observed vapor concentrations are shown in Table 6.

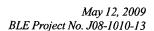
At the completion of the AFVR event, a total volume of 955 gallons of petroleum impacted groundwater was determined to have been recovered from the site. Of that volume, approximately two gallons of free-phase petroleum product was measured in the holding tanks by Excalibur personnel following the completion of the AFVR event. Please note, the measurement of free-product thickness in the recovery tank is affected by product emulsification with groundwater which occurs as a result of the AFVR process. Additionally, petroleum product losses occur from volatilization during an AFVR event; therefore, the liquids may not have had sufficient time to separate in order to obtain an accurate free-product thickness measurement. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the AFVR event are provided in Appendix B.

A total of approximately 2.04 pounds of gasoline vapor which is equivalent to approximately 0.33 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 7.

The source area monitoring wells were gauged immediately following the conclusion of the event and no free-phase product was observed in MW-4. However, 0.90 feet of free-phase product was observed in MW-17. Total water level changes for this event are shown in Table 6.

JANUARY 21, 2009 AFVR EVENT - EVENT #4

On January 21, 2009 an 8-hour AFVR event was conducted in monitoring wells MW-2, MW-6, MW-15 and MW-18. A geologist from BLE, Ivan A. Irizarry, was on site for observation and monitoring. The AFVR event was performed by Excalibur of Simpsonville, South Carolina. Prior to initiating the event, BLE personnel gauged 0.01 of free-phase petroleum product in MW-2, 0.01 feet of free-phase petroleum product in MW-6, 0.19 feet of free-phase petroleum product in MW-15, and 0.19 feet of free-phase petroleum product in MW-18. The initial depth to groundwater





/free-product readings in the source area wells (feet bloc) were 29.42 (MW-2), 28.33 (MW-5), 29.11 (MW-6), 29.81 (MW-12), 29.93 (MW-14), 28.39 (MW-15), 29.42 (MW-18), and 30.16 (MW-2D). Free-product measurements are shown on Figure 2.

The AFVR event was initiated at 0945 and concluded at 1745. The general weather conditions observed during this period of time were clear to overcast; winds varied between 1 and 9 mph with an ambient temperature between 19 ° and 39° Fahrenheit. Throughout the duration of the AFVR

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are on-site, and three wells (MW-7, MW-8, and MW-11) are off-site.

Groundwater levels in the monitoring wells were measured on February 23, 2009 (Table 1). A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is on Figure 4.

Groundwater samples were collected from eleven (MW-1, MW-2D, MW-5, MW-7 through MW-11, MW-13, MW-14, and MW-16) of the nineteen monitoring wells on February 23, 2009. Monitoring wells MW4, MW-6, and MW-12 were not sampled as they were dry at the time of the sampling event. Additionally, monitoring wells MW-2, MW-3R, MW-15, MW-17 and MW-18 were not sampled due to the presence of free-phase product in the wells. The remaining wells were sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and methyl-tertiary-butyl-ether (MTBE) by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011 and 8-RCRA metals by EPA 6000/7000 series methods.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well development). Therefore, only monitoring wells MW-2D and MW-16 (new monitoring well) were purged prior to sample collection. Monitoring well purging and sampling procedures are described in Appendix C. The samples were shipped via overnight courier to Pace Environmental Services, Inc. (PACE) in Huntersville, North Carolina for analysis (SC Certification #990060001). The monitoring well sampling logs are in Appendix C. The laboratory data sheets are provided in



Appendix D. Concentrations of the chemicals of concern (CoCs) for each well are shown on Figure 5. Historical groundwater laboratory analytical results are provided as Table 10.

Purge water generated during the groundwater sampling event was contained in a 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix B.

LABORATORY RESULTS

Laboratory analyses detected various CoC in monitoring wells MW-1, MW-2D, MW-5, MW-7, MW-13, and MW-14. Benzene, naphthalene, and EDB (MW-13 and MW-14) were the only dissolved VOCs detected at concentrations exceeding Risk-Based Screening Levels (RBSLs). Additionally, various 8-RCRA metal concentrations were detected above RBSLs in monitoring wells MW-9, MW-10, MW-11, and MW-14. Petroleum free-product was measured in MW-2, MW-3R, MW-15, MW-17 and MW-18 at a thickness of 0.02, 0.60, 0.13, 0.79 and 0.45 feet, respectively. Laboratory analytical results for each well are shown on Figure 5. Historical laboratory data is summarized on Table 10, through Table 12. Laboratory data sheets are provided in Appendix D.

CONCLUSIONS AND RECOMMENDATIONS

During this assessment, laboratory analyses detected various VOC and/or and metals concentrations in monitoring wells MW-1, MW-2D, MW-5, MW-7, MW-9, MW-10, MW-11, MW-13, and MW-14 exceeding established RBSLs. Various VOCs and/or metals concentrations were also detected in monitoring wells MW-8 and MW-16, but at levels below their respective established RBSLs. Additionally, petroleum free-product was detected in five on-site monitoring wells (MW-2, MW-3R, MW-15, MW-17, and MW-18). Wells MW-4, MW-6, and MW-12 were dry during the sampling event.

The four 8-hour AFVR events have removed approximately 30 gallons of free-phase petroleum product (liquid and vapor). The 8-hour AFVR events have been successful in reducing of free-phase petroleum product thickness in MW-15; however, the thicknesses in MW-2, MW-17 and MW-18 have remained at similar thicknesses. Additionally, monitoring well MW-3R contained 0.60 feet of free-phase petroleum product and monitoring wells MW-4 and MW-6 were dry at the



Report of Supplemental Environmental Activities Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #34322

time of sampling. Historically, MW-4 and MW-6 have contained moderate thicknesses of free-phase petroleum product.

We recommend the replacement of dry monitoring wells MW-4, MW-6, and MW-12 which are critical in defining the horizontal extent of the free-product plume. Additionally, since free-product is still present in MW-2, MW-3R, MW-15, MW-17, MW-18, and presumably MW-4 and MW-6, we recommend that a series of additional AFVR events be conducted at the site. After a minimum of 30 days from the last AFVR event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha Dorsey Business Management, Division of Procurement Services for payment.



May 12, 2009 BLE Project No. J08-1010-13

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, INC.

Ivan A. Irizarry

Staff Geologist

Trevor J. Benton
Project Hydrogeologist

Registered, South Carolina #2395

cc: Mr. Allen Vaughn, For the Estate of Robert B. Vaughn

TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA Former Ryder Truck Terminal

UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13 Greenville, South Carolina

	Top of Casing	Ground Surface	GW Depth		GW Depth			Screen	Screen
Boring ID #	Elevation	Elevation	(btoc)	FP Thickness (ft)	(pgs)	GW Elevation	Well Depth	Depth	Elevation
MW-1	100.70	98.48	30.89	NA	28.68	69.81	31.0	21.0 - 31.0	21.0 - 31.0 77.5 - 67.5
MW-2*	100.10	100.54	28.67	0.02	29.11	71.43	35.0	25.0 - 35.0	25.0 - 35.0 75.5 - 65.5
MW-2D	99.29	92.66	30.05	NA	30.53	69.24	54.5	49.5 - 54.5 50.3 -	50.3 - 45.3
MW-3				Well abandoned December 5, 2005	ember 5, 2005				
MW-3R*	00.66	99.57	28.54	09:0	29.11	70.46	32.4	18.5 - 28.5 81.1 -	81.1 - 71.1
MW-4	102.67	102.91	Dry	Dry	Dry	NA	29.5	19.5 - 29.5 83.4 -	83.4 - 73.4
MW-5	101.48	101.71	27.90	NA	28.14	73.58	29.0	19.0 - 29.0	19.0 - 29.0 82.7 - 72.7
9-MM	101.74	102.12	Dry	Dry	Dry	NA	29.5	19.5 - 29.5 82.6 -	82.6 - 72.6
MW-7	92.67	92.97	28.62	NA	28.92	64.05	32.8	22.8 - 32.8 70.2 - 60.2	70.2 - 60.2
MW-8	88.76	88.87	25.14	NA	25.25	63.62	29.8	19.8 - 29.8	19.8 - 29.8 69.1 - 59.1
6-MM	102.26	102.65	27.34	NA	27.73	74.92	30.7	20.4 - 30.4	20.4 - 30.4 82.3 - 72.3
MW-10	104.67	104.67	27.02	NA	27.02	77.65	30.1	19.8 - 29.8 84.9 - 74.9	84.9 - 74.9
MW-11	100.66	100.92	28.87	NA	29.13	71.79	31.0	20.7 - 30.7 80.2 - 70.2	80.2 - 70.2
MW-12	101.38	101.68	Dry	Dry	Dry	NA	30.9	20.7 - 30.7 81.0 - 71.0	81.0 - 71.0
MW-13	98.62	98.95	27.81	NA	28.14	70.81	33.2	23.0 - 33.0 76.0 - 66.0	76.0 - 66.0
MW-14	99.30	99.83	27.52	NA	28.05	71.78	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	27.82	0.13	28.01	72.57	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	27.90	NA	28.19	74.84	34.4	24.2 - 34.2 78.8 - 68.8	78.8
MW-17*	102.09	102.49	28.76	0.79	29.16	73.33	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	28.90	0.45	29.25	71.49	35.6	25.4 - 35.4 75.3 - 65.3	753 - 653

Groundwater levels were measured on February 23, 2009.

Measurements are in feet; elevations are relative to an arbitrary site datum.

*Petroleum free product was detected in MW-2 (0.02), MW-3R (0.60), MW-15 (0.13), MW-17 (0.79) & MW-18 (0.45) on February 23, 2009 Groundwater depth data for MW-2, MW-3R, MW-17, and MW-18 has been corrected for free-product thickness using a density

of 0.70 g/cc.

btoc = below top of casing

bgs = below ground surface

FP= Free Product
NA = Not Aplicable.

UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13 AFVR Gauging Data (December 12, 2008) Former Ryder Truck Terminal Greenville, South Carolina

		M	onitoring We	Monitoring Well Gauging Data	ıta		Air Em	Air Emissions
	Vacuum	Vacuum Readings		Depth to Water (feet BTOC)	er (feet BTOC	(Influent	Effluent
Time	MW-4	MW-17	MW-4	MW-5	MW-12	MW-17	(mdd)	(mdd)
0060	23.0	24.0	29.01	28.63	29.76	29.69	298	16
0630	23.0	24.0		28.64	29.76		857	16
1000	23.0	24.0		28.66	29.77		843	16
1030	23.0	24.0		28.66	29.77		823	15
1100	23.0	24.0		28.66	29.77		775	15
1130	23.0	24.0		28.66	29.77		762	15
1200	24.5	24.0	TV	28.66	29.77	L	752	15
1230	24.5	24.0	\EJ	28.66	29.77	ſΕΝ	741	14
1300	24.5	24.0	E/	28.67	29.78	Ε⁄	738	14
1330	24.5	24.0	ΛK	28.67	29.78	ΛK	969	14
1400	24.5	24.0	ΑF	28.67	29.78	√Ŀ	654	14
1430	24.5	24.0		28.67	29.78	7	618	14
1500	24.5	24.0		28.67	29.78		577	14
1530	24.5	24.0		28.67	29.78		493	12
1600	24.5	24.0		28.68	29.78		461	12
1630	24.5	24.0		28.68	29.78		453	12
1700	24.5	24.0	29.18	28.68	29.78	30.44	442	12
	Water Level	Water Level Change (ft)	0.17	0.05	0.02	0.75		

AFVR event performed on December 12, 2008.

0.15 and 0.63 feet of free-phase petroleum product were detected in MW-4 and MW-17, espectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE $^{\$}$ 2000 photo-ionization detector (PID)

BTOC - below top of casing

ppm - parts per million Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

AFVR Gauging Data (December 12, 2008)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

SMC	B	Αv	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	Date			
0+1.0	0.146	Average Values	8 1700		1600	1530	1500)8 1430	1400	1330	ŀ			1130	08 1100	08 1030	08 1000	08 0930	08 0900	Time			
D _{WSW}	R	25	25	25	25	25	15	15	25	25	25	25	25	25	25	25	25	25	25	(in. Hg)	Vacuum		
0.089	0.000	756	765	760	772	764	754	777	763	758	762	758	761	754	760	751	743	732	726	(ft/min)	Velocity	AFVR FI	
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	Ē	Pipe D	AFVR FIELD MEASUREMENTS	
		131	132	132	132	132	132	132	132	132	132	132	132	132	132	131	130	124	118	∄,	Temp	EMENTS	
		82.4	72.7	74.1	73.6	75.2	76.9	75.3	78.6	75.2	79.3	85.4	86.3	88.4	91.8	92.2	92.5	91.4	92.7	8	Rel. Humidity		
	000	089	442	453	461	493	577	618	654	696	738	741	752	762	775	823	843	857	867	(maga)	PPM		WEL
			8:00	7:30	7:00	6:30	6.00	5.30	5:00	4:30			3:00	2:30	2:00	08:1	18	05:0	0	(hr:min)	Elansed Time		L ID #: M
	30.24	30 34	30.50	30 31	30 TO	30.47	30.07	30 00	30 23	30 93		30.23	30.35	30.07	30 41	20.00	20 12	70 60	20 60	DSCENO Call	0		WELL ID #: MW-4 and MW-17
	/9/.14	707 14	51850		540.70	578 33	676.07	774.06	767 10	21.318			887 16	09 103	000 17	16.000	10.880	1,007,000	1 017 06	Present	Mdd		W-17
	3,188.57	2 100 55	2 074 00	7 175.67	1000	231231	7 707 47	3,000,77	201,002	20 276.1		3 477 01	2,528.57	23.275.24	2775	200000	3,022,53	42.000.44	40000	I I IVI.	Maa		
Total Pounds of Carbon Recovered as Emissions:	4	-				1	ه ا			•			4	4	2	4				7	7	EMISSI	
arbon Recovered	1590.97	1,004.00	1,060.60	1,079.55	1,104.20	1,350.92	1,446.91	1,531.20	1,029.53	1,/2/.8/	1,734.03	1,700,00	1 720 65	1,514,49	1,920.00	1,975,70	2,006.43	2,029.89	(mg/dsm.3)	Com	,	EMISSION CALCULATIONS	
d as Emissions:	9.93243E-05	C0+(10+:0	0.02E-U5	0./45-05	101810	8,43E-05			1021-04	1.0815-04	1.000.04	1.10E-04	IJIE-04	1.136-04	1,2015-04	1.236-04	1.25E-04	1.27E-04	(lb/dsct)		2	ATIONS	
	0.18	0.12	0.12	0.12	0.13	0.15	0.37	0.17	0.18	0.20	0.20	0.20	0.20	0.21	0.22	0.22	0.22	0.23	(lb/hr)	PMR			
	0.21	0.14	0.14	0.14	0.15	0.18	0.19	0.20	0.21	0.23	0.23	0.23	0.23	0.24	0.25	0.25		0.26	(lb/hr)	PMR _e			
1.4419	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	(gal/hr)	PMR ₂			

 $B_{\rm now}$. Ib of water per lb of dry air $B_{\rm nc}$, water vapor % by volume Calculations have been derived from published guidance. K - number of carbons in calibration gas

C_{ma}. mass concentration of VOC emissions as carbon

C_c. mass concentration of VOC emissions as carbon, dry basis, at STP

PMR_c. pollutant mass removal of VOCs as carbon $\mathsf{PMR}_{\mathbf{g}}$, pollutant mass removal of VOCs as gasoline Total Gallons of Gasoline Recovered as Emissions:

Total Pounds of Gasoline Recovered as Emissions:

0.2670 1.6688

NOTES:
AFVR event performed by Excalibur Environmental Services, Inc. on December 12, 2008.
Vacuum applied to motitoring wells MW-4 and MW-17.
0.15 and 0.63 feet of free-phase petroleum product measured in MW-4 and MW-17, respectively prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million Q_{std}. flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute
PPM4 - "dry" concentration
PPM4 - volumetric concentration of VOC emissions as carbon, dry basis, at STP

UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13 AFVR Gauging Data (December 15, 2008) Former Ryder Truck Terminal Greenville, South Carolina

	_	_	-	_	_	_	_	_	-,-	_		_					_		_	_	-
Air Emissions	Effluent	(mdd)	16	10	15	15	51	41	14	1	1	<u>+</u>	41	13	13	13	13	13	13	13	
Air En	Influent	(mdd)	705	809	499	480	503	495	486	477	777	104	401	456	452	8448	439	432	426	418	
		MW-2D	31.25	31.29	31 34	31.40	31.47	31.48	31 49	31.50	31.50	21.72	21.32	31.33	31.34	31.33	31.33	31.56	31.56	31.57	0.32
		MW-18	96 66	200					L	EN	EΛ	B	Λď	V	•					30.93	200
		MW-15	29.71						Li	EZ	EΛ	В	Υ٦	٧						29.95	0.24
	Depth to Water (feet btoc)	MW-14	28.41	28.68	28.96	29.31	29.67	29.79	29.91	29.99	30.07	Day	Day	yld G	D. J.	y C	VIO.	Dry	Dry	Dry	1 66
ıta	Depth to Wa	MW-12	29.76	29.77	29.78	29.78	29.79	29.79	29.79	29.79	29.79	20.70	20.70	20.70	20.70	20.70	25.00	29.80	29.80	29.80	0.04
ll Gauging Da		9-MW	Dry	,					Ll	Æ	ΕΛ	Ж	ĿΛ	٧						29.29	-0.21
Monitoring Well Gauging Data		MW-5	28.66	28.68	28.70	28.73	28.76	28.77	28.78	28.79	28.81	28.82	28.83	28.62	28.85	28.85	20.07	78.87	28.88	28.90	0.24
M		MW-2	28.91						ΛL	Æ	ΕΛ	Ж	ΈZ	₩		-				29.02	0.11
		MW-18	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	10.0	0.61	19.0	19.0	e (ft)
	Vacuum Readings	MW-15	5.61	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	10.5	19.5	19.5	19.5	Water Level Change (ft)
	Vacuum	MW-6	0.61	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	10.0	19.0	19.0	19.0	Wate
		MW-2	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	0./1	17.0	
		Time	0630	1000	1030	1100	1130	1200	1200	1300	1330	1400	1430	1500	1530	1600	1630	1000	1/00	1730	
					_	-	_		_	_	_	-	_	_	_		_	_		-	

NOTES:

AFVR event performed on December 15, 2008.

1.30 and 0.46 feet of free-phase petroleum product in detected in MW-15 and MW-18, respectively prior to initiating the AFVR event.

No free-phase petroleum product was measured in MW-2 prior to initiating the AFVR event.

MW-6 was dry prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE $^{\oplus}$ 2000 photo-ionization detector (PID) btoc - below top of casing

ppm - parts per million Water Level Change (feet)= Final depth to water minus initial depth to water; positive = drawdown; negative = rise

AFVR Gauging data (December 15, 2008) Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Т	Г	Т	Т	Т	Т	Т	Т		_	_
Averag	8007/51/71	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	12/15/2008	Date	5		
e Values	1730	1700	1630	1600	1530	1500	1430	1400	1330	1300	1200	1200	1130	1100	1030	1000	0930	Time	!		
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	(in. Hg)	Vacuum		
1,987	2,022	2,017	2,018	2,015	2,021	2,024	2,019	2,014	2,017	2,010	2,008	1,989	1,947	1,912	1,893	1,980	1,872	(ft/min)	Velocity	AFVR I	
3	3	3	3	w	3	3	3	3	3	3	3	3	3	3	3	3	3	(in)	Pipe D	TELD MEASU	
150	158	158	158	158	158	158	156	156	153	153	153	152	152	151	151	112	112	3	Temp	REMENTS	
67.2	47.3	50.4	52.8	53.2	55.3	57.7	60.5	61.6	62.5	65.7	64.6	72.3	78.4	80.1	92.5	93.4	93.7	<u>~</u>	Rel. Humidit		
487	418	426	432	439	448	452	456	461	467	472	486	495	503	489	499	608	725	(ppm)	-		WELL ID# MW-2, MW-6, MW-15, AND MW-18
	8:00	7:30	7:00	6:30	6:00	5:30	5:00	4:30	4.00	0.5.6	2.30	2:30	2:00	1230	1:00	0:30	0		\exists		MW-2, MV
74.74	75.05	74.86	74.90	74.79	75.01	75.12	75.18	74 99	75.17	75.71	75 14	74.45	72.97	71.78	71 87	79 40	75.07		1		V-6, MW-1
601.50	516.46	526.34	533.76	542.41	553.53	558.47	563.41	569.59	577 00	01100	94 U09	110	671 48	60418	63654	751.71	895.77		PPM,		5, AND M
2.405.98	2,065,84	2.105.38	2.135.03	2,169,63	2.214.11	2.233,88	775764	7,778.36			3 10 100	2 446.30			2 200 16	3 8 7 00 5	3 593 10		PPM.		W-18
4	4	4	1	ia l	4	4											4		K	EMI	
1200 49	1.030.77	1 050 50	06.590 1	1 080 56	1 10175	1 114 67	10001	1,151,01	1,103.94	1,178,40	1 300 65	1000.00	1,203.00	1,200.5	1,120.61	1,707.03	(cusa/gm)	(ma/dem3)		SION CALCU	
7 40467E-05	6 448-415	200000	6 650 05	6.767.05	20,000	20,000		t	2012	7.488-05	C0-74 10 - F	Clede/17	7 305 40	CIP-0007	COPTION	1,7,700.00	(indet)	OF OF	2	JLATIONS	
100000000000000000000000000000000000000	0.29	0.00	0.50	0.20	0.01	0.72	0.52	0.43	0.33	0.34	0.54	0.34	76.0	033	0.45	0.50	(LO/ALT)	Thur,	DMD		
		0.00	0.35	0.50	0.30	0.37	0.27	0.38	0.38	0.39			0.38	0.38			¥ .	, with	ava		
0.00	20.0	20.00	0.00	0.00	0.06	90.0	0.06	90.06	0.06	0.06	0.06	0.06	0.06	0.06	0.08	0.05	(gai/h	NIW.1	Third		
	22 1,987 3 159 67.2 487 74.74 601.50 2,465.98 4 1700.40 7,404.5FE.65 0.34 0.70	rage Values 22 1,987 3 158 47.3 418 8:00 75.05 516.46 2,065.84 4 1,010.77 6,417.05 0.29 0.34 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	1700 22 2,017 3 158 50.4 426 7130 71486 526.34 2,105.38 4 1,050.55 6.50.05 0.25 0.44 1.05 0.25 0.44 1.05 0.25 0.44 0.45 0.	1500 22 2,118 3 158 52.8 432 1700 14.90 53.76 2,185.03 4 106.50 6.611.05 0.30 0.35 1700 22 2,017 3 158 47.3 4.26 7.90 7.186 52.64 2,185.03 4 106.50 0.50 0.35 0.35 1730 22 2,022 3 158 47.3 4.18 8.00 75.05 55.64 2,165.38 4 105.05 6.611.05 0.29 0.34 1730 22 2,022 3 158 47.3 4.18 8.00 75.05 55.64 55.64 55.64 55.65 6.611.05 6.611.05 0.29 0.34 1730 22 2,022 3 158 47.3 4.18 8.00 75.05 55.64 55.	1600 22 2,115 3 158 53.2 439 6.30 74.79 54.24 1.109.63 £ 4 1.109.58 6.702.45 0.30 0.35 1630 22 2,118 3 158 52.8 432 710 714.50 53.76 2,135.13 4 1,055.20 6.642.05 0.30 0.35 1700 22 2,1017 3 158 50.4 426 77.30 714.50 523.24 4 1,055.30 6.642.05 0.29 0.34 1730 22 2,102 3 158 47.3 418 8.00 75.15 516.46 2,165.38 4 1,001.77 6.447.05 0.29 0.34 1730 22 1,987 3 159 67.2 487 74.74 601.50 2,405.98 4 1,001.77 6.447.05 0.20 0.35 1730 173	1530 22 2,921 3 158 55.3 448 6.00 75.11 553.53 2,214.11 4 1,114.75 6.00-0.0 0.36 1600 22 2,918 3 158 52.8 429 6.30 74.30 54.34 2,105.3 4 1,082.56 6.762.45 0.30 0.35 1700 22 2,918 3 158 52.8 422 70.0 74.30 54.34 2,105.9 4 1,082.50 6.762.45 0.30 0.35 1700 22 2,917 3 158 50.4 426 7.30 71.40 52.34 2,105.38 4 1,090.50 6.762.45 0.20 0.35 1730 22 2,922 3 158 47.3 418 8.00 71.40 52.34 2,105.38 4 1,090.50 6.762.45 0.20 0.34 1730 22 2,922 3 158 67.2 418 8.00 73.14 6.15.0 5.164.8 4 1,090.75 6.762.45 0.20 0.34 1730 22 1,987 3 159 67.2 487 74.74 6.15.0 2,405.88 4 1,204.75 0.20 7.444.15 0.30 1730 2,405.88 2,405.88 4 1,004.75 0.30 0.34 1730 2,405.88 2,405.88 4 1,204.75 0.30 0.34 1730		1500 22 2,019 3 156 60.5 456 500 75.18 56.34 2,233.64 4 1,124.65 70.02 1,237 1	8 1400 22 2,014 3 156 61.6 461 4.30 74.99 509.59 2,278.56 4 1,131.61 710.124 30.37 1,332 1,337 1,338 1,131.61 710.124 30.37 1,332 1,337 1,338 1,131.61 710.124 30.37 1,338 1,338 1,131.62 90.23 1,337 1,338 1,131.62 90.23 1,337 1,338 1,131.62 90.23 1,337 1,338 1,131.62 90.23 1,337 1,338 1,131.62 90.23 1,337 1,338 1,131.62 90.23 1,337 1,338 </td <td> Section Sect</td> <td>8 1390 22 2,010 3 153 65.7 472 3.30 75.11 88118 2,321.77 4 1,150.40 74,195 9,33 9,88 8 1430 22 2,017 3 153 65.7 472 3.30 75.11 88118 2,312.77 4 1,165.05 73.33 9,88 8 1400 22 2,014 3 153 61.5 461 4.30 74.79 877.00 2,308.01 4 1,151.61 7167.45 0.33 0.38 1.30 1.30 1.30 1.50 6.0.5 450 560.0 74.79 860.95 4 1,156.81 7167.45 0.33 0.31 0.32 0.37 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.31 0.31 0.33 0.33 1.30 1.30 1.30 1.30 1.30 1.30 1.30</td> <td> S 1200 22 2,008 3 153 64.6 486 2.30 75.14 60.048 2.40191 3 1.104.0 7.40195 0.34 0.09 3 1.30 22 2,017 3 153 62.5 472 330 75.14 5318 2.31277 4 1.16.94 7.15.95 0.33 0.38 1.30 22 2,017 3 153 62.5 467 4.00 7.5.7 577.00 2.78.50 4 1.15.16 7.15.95 0.33 0.38 1.30 22 2,014 3 156 61.6 461 4.30 7.5.7 577.00 2.78.50 4 1.15.16 7.15.95 0.33 0.38 1.30 2.2 2,019 3 156 60.5 456 5.00 7.5.18 5.63.1 2.278.55 4 1.12.48 70.15.95 0.32 0.37 1.30</td> <td> 1200 22 1,889 3 152 77.3 495 2,340 74.55 661.60 2,4659 4 1220.65 76.145 0,34 0,39 12100 22 2,010 3 153 65.7 472 3.30 75.11 533.18 2,72.172 4 1,165.45 76.145 0,34 0,39 1310 22 2,017 3 153 65.7 472 3.30 75.11 533.18 2,72.172 4 1,165.45 76.145 0,34 0,39 1410 22 2,017 3 153 62.5 467 4.00 75.47 577.00 2,4860 4 1,156.45 71.154.55 0,33 0,38 1420 22 2,017 3 156 61.5 461 4.30 75.47 577.00 2,788.5 4 1,156.45 71.154.5 0,32 0,33 0,38 1420 22 2,019 3 158 67.5 456 5.00 75.47 577.00 2,788.5 4 1,156.45 71.154.5 0,32 0,37 1420 22 2,024 3 158 57.7 452 550.0 75.11 53.18 53.18 4 1,114.45 70.154.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.11 53.51 2,273.45 4 1,114.45 70.154.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.11 53.51 2,273.45 4 1,114.55 6.004.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0,32 0,37 1430 22 2,024 3 158 53.3 4.48 6.00 75.11 53.51 2,273.45 4 1,114.55 6.004.5 0,31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2.05.5 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2.05.5 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 </td> <td> 130 22 1,947 3 152 78.4 503 22.00 72.57 62.148 2,48593 4 1,200.58 73.615. 0,34 0,39 1,200 22 2,008 3 153 64.6 486 2.30 75.54 60.140 2,4459 4 1,203.5 73.615. 0,34 0,39 1,200 22 2,010 3 153 64.5 486 2.30 75.54 60.140 2,4459 4 1,204.5 2,5615.5 0,34 0,39 1,200 2,200 2,010 3 153 6.5.7 472 3.30 75.54 60.140 2,4459 4 1,104.5 74.155 0,33 0,38 1,200 2,200 2,010 3 153 6.5.5 467 4.50 75.54 5.57.0 2,105.0 4 1,105.0 74.155 0.33 0,38 1,200 2,200 2,200 3 158 6.2.5 467 4.50 74.59 2.70.5 2.70.5 4.50 2.70.5 4.50 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 2.70.5 4.</td> <td> </td> <td> Section Sect</td> <td> </td> <td>8 1909 22 1,980 23 1172 23 112 29.7 72.5 49 1767 89.577 3.583.10 4 1,772.3 1,724 1,0157 1,016</td> <td> </td> <td> Time Vaccium Velocity Pipe Pipe Pipe Ref Himidity Pipe Ref Ref</td> <td> Time Cha. Hg) Pipe Temp Cho. Hg) Pipe Cho. Hg) Cho</td>	Section Sect	8 1390 22 2,010 3 153 65.7 472 3.30 75.11 88118 2,321.77 4 1,150.40 74,195 9,33 9,88 8 1430 22 2,017 3 153 65.7 472 3.30 75.11 88118 2,312.77 4 1,165.05 73.33 9,88 8 1400 22 2,014 3 153 61.5 461 4.30 74.79 877.00 2,308.01 4 1,151.61 7167.45 0.33 0.38 1.30 1.30 1.30 1.50 6.0.5 450 560.0 74.79 860.95 4 1,156.81 7167.45 0.33 0.31 0.32 0.37 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.30 1.31 0.31 0.33 0.33 1.30 1.30 1.30 1.30 1.30 1.30 1.30	S 1200 22 2,008 3 153 64.6 486 2.30 75.14 60.048 2.40191 3 1.104.0 7.40195 0.34 0.09 3 1.30 22 2,017 3 153 62.5 472 330 75.14 5318 2.31277 4 1.16.94 7.15.95 0.33 0.38 1.30 22 2,017 3 153 62.5 467 4.00 7.5.7 577.00 2.78.50 4 1.15.16 7.15.95 0.33 0.38 1.30 22 2,014 3 156 61.6 461 4.30 7.5.7 577.00 2.78.50 4 1.15.16 7.15.95 0.33 0.38 1.30 2.2 2,019 3 156 60.5 456 5.00 7.5.18 5.63.1 2.278.55 4 1.12.48 70.15.95 0.32 0.37 1.30	1200 22 1,889 3 152 77.3 495 2,340 74.55 661.60 2,4659 4 1220.65 76.145 0,34 0,39 12100 22 2,010 3 153 65.7 472 3.30 75.11 533.18 2,72.172 4 1,165.45 76.145 0,34 0,39 1310 22 2,017 3 153 65.7 472 3.30 75.11 533.18 2,72.172 4 1,165.45 76.145 0,34 0,39 1410 22 2,017 3 153 62.5 467 4.00 75.47 577.00 2,4860 4 1,156.45 71.154.55 0,33 0,38 1420 22 2,017 3 156 61.5 461 4.30 75.47 577.00 2,788.5 4 1,156.45 71.154.5 0,32 0,33 0,38 1420 22 2,019 3 158 67.5 456 5.00 75.47 577.00 2,788.5 4 1,156.45 71.154.5 0,32 0,37 1420 22 2,024 3 158 57.7 452 550.0 75.11 53.18 53.18 4 1,114.45 70.154.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.11 53.51 2,273.45 4 1,114.45 70.154.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.11 53.51 2,273.45 4 1,114.55 6.004.5 0,32 0,37 1430 22 2,024 3 158 57.7 452 550.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0,32 0,37 1430 22 2,024 3 158 53.3 4.48 6.00 75.11 53.51 2,273.45 4 1,114.55 6.004.5 0,31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2,273.85 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2.05.5 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3 158 53.3 4.32 70.0 75.12 58.47 2.05.5 4 1,114.55 6.004.5 0.31 0.35 1430 22 2,024 3	130 22 1,947 3 152 78.4 503 22.00 72.57 62.148 2,48593 4 1,200.58 73.615. 0,34 0,39 1,200 22 2,008 3 153 64.6 486 2.30 75.54 60.140 2,4459 4 1,203.5 73.615. 0,34 0,39 1,200 22 2,010 3 153 64.5 486 2.30 75.54 60.140 2,4459 4 1,204.5 2,5615.5 0,34 0,39 1,200 2,200 2,010 3 153 6.5.7 472 3.30 75.54 60.140 2,4459 4 1,104.5 74.155 0,33 0,38 1,200 2,200 2,010 3 153 6.5.5 467 4.50 75.54 5.57.0 2,105.0 4 1,105.0 74.155 0.33 0,38 1,200 2,200 2,200 3 158 6.2.5 467 4.50 74.59 2.70.5 2.70.5 4.50 2.70.5 4.50 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 74.59 2.70.5 4.50 2.70.5 4.		Section Sect		8 1909 22 1,980 23 1172 23 112 29.7 72.5 49 1767 89.577 3.583.10 4 1,772.3 1,724 1,0157 1,016		Time Vaccium Velocity Pipe Pipe Pipe Ref Himidity Pipe Ref Ref	Time Cha. Hg) Pipe Temp Cho. Hg) Pipe Cho. Hg) Cho

Total Pounds of Carbon Recovered as Emissions: 3.1116 0.4979 2.6887

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

C_{m.} mass concentration of VOC emissions as carbon

C, mass concentration of VOC emissions as carbon, dry basis, at STP

PMR_c. pollutant mass removal of VOCs as carbon

PMR_c. pollutant mass removal of VOCs as gasoline

B_{wm}. be of water per lo d'aly air

B_{wm}. be of water per lo d'aly air

Calculations have been derived from published guidance.

NOTES:
AFVR event performed by Excalibur Environmental Services, Inc on December 15, 2008.
Vacuum applied to monitoring wells MW-2, MW-4, MW-15 and MW-18, respectively prior to initiating the AFVR event.
1.30 and 0.46 feet of free-phase pertoleum product measured in MW-15 and MW-18, respectively prior to initiating the AFVR event, the free-phase petroleum product layer in MW-6 extended below the screened interval, therefore an accurate free-phase petroleum product thickness could not be determined.
No free-phase petroleum product was measured in MW-2 prior to initiating the AFVR event.
Vapor concentrations measured using a portable MiniRAE[®] 2000 Photo-Ionization Detector (PID).

ppm - parts per million

Q_{att}. flow at DSCFM
DSCFM - Dry Standard Cubic Feet per Minute
PPM₄ - "dry" concentration
PPM₅ - volumetric concentration of VOC emissions as carbon, dry basis, at STP

UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13 AFVR Gauging Data (January 20, 2009) Former Ryder Truck Terminal Greenville, South Carolina

		M	onitoring Wel	Monitoring Well Gauging Data	nta		Air Emissions	issions
	Vacuum	Vacuum Readings		Depth to Wa	Depth to Water (feet btoc)		Influent	Effluent
Time	MW-4	MW-17	MW-4	MW-5	MW-12	MW-17	(mdd)	(mdd)
0945	23	23	28.85	28.35	29.81	29.91	1587	17
1015	23	23		28.35	29.81		1481	18
1045	23	23		28.35	29.81		1305	17
1115	23	23		28.35	29.81		983	16
1145	23	23		28.35	29.81		879	15
1215	23	23		28.35	29.81		693	14
1245	23	23	TV	28.35	29.81	ΙΛ	454	14
1315	23	23	\EJ	28.35	29.81	\EJ	452	13
1345	23	23	E	28.35	29.81	ΕZ	433	14
1415	23	23	ΛK	28.35	29.81	ΛK	421	13
1445	23	23	ЯV	28.36	29.81	ΑF	418	13
1515	23	23		28.36	29.81		403	13
1545	23	23		28.37	29.81		394	12
1615	23	23		28.37	29.81		390	12
1645	23	23		28.38	29.81		381	12
1715	23	23		28.38	29.81		317	12
1745	23	23	29.41	29.39	29.81	31.97	261	10
	Water Level Change (ft)	Change (ft)	0.56	1.04	0.00	2.06		

NOTES:

AFVR event performed on January 20, 2009.

0.01 and 0.97 feet of free-phase petroleum product measured in MW-4 and MW-17, respectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE $^{\oplus}$ 2000 photo-ionization detector (PID)

BTOC - Below Top Of Casing

ppm - parts per million Water Level Change (feet)= Final depth to water minus initial depth to water; positive = drawdown; negative = rise

AFVR Gauging Data (January 20, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

	Вws	Average Values	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	Date				
	0.114	Values	1745	1715	1645	1615	1545	1515	1445	1415	1345	1315	1245	1215	1145	1115	1045	1015	0945	Time				
	B _{wsw}	25	25	25	25	25	25	25	35	25	25	25	25	25	25	25	25	25	25	(in. Hg)	Vacuum			
	0.069	955	962	977	961	954	954	927	963	958	975	962	933	918	928	954	973	970	964	(ft/min)	Velocity	AFVR FI		
		3	3	3	3	3	3	3	ı	3	3	3	3	3	3	3	3	3	3	(ii)	Pipe D	AFVR FIELD MEASUREMENTS		
		123	130	132	132	132	132	130	130	128	128	124	124	118	118	110	110	110	110	9 [Temn	EMENTS		
		82.1	80.4	81.7	83.6	83.6	85.7	85.1	86.7	87.8	87.4	26.2	85.4	85.8	87.8	87.2	86.6	87.2	87.1	(%)	Pol Humidity			
		660	261	317	381	ner	394	403	418	421	433	452	454	663	879	983	1305	1.481	1.587	(ppm)	DDM		WEL	
			8:00	7:30	7:00	90.0	6410	5:30	500	d: 30	4:00	3:30	3.00	2.30	3-00	1:30	100-1	0.30	1	(hr:min)			WELL ID #: MW-4 and MW-17	
		39.50	39.24	20.00	20.00	30 00	38.95	17.41	30 00	30 11	40.41	30 75	18 65	36 27	76.92	40.10	11.00	1001	40.81	OSCIAL Car			W-4 and M	
		745.38	79471	17.00	440.57	440.00	34400	175.05	475.00	100.75		510.38	20,00	276.00	000 57	100 07	1.072.23	1 (77.70	1 701 00	PPM			W-17	
H H		2.981.52	1178 87	1,720.84	1,/61,49	1,7/9:50	1,020.21	1,007.90	101001	1,755,71		30110	2050 55		307000		0,689.15	7,107.91	7 16 53 1 5	PPM _c			:	
Total Pounds of Gasoline Recovered as Emissions: Total Gallons of Gasoline Recovered as Emissions:	Total Pounds of Carbon Recovered as Emissions:	4 4	4	4	•	4				4			4	4		4	4	•		*	EMISSIC			
soline Recovered : soline Recovered	rbon Recovered a	1487 66				887.93	708.21				6			1,980.94	2,215,32	2,940,99	3,337.63	3.576.51	(mg/dsm3)		EMISSION CALCULATIONS			
as Emissions:	s Emissions:	3,076705	4.46E-05	5.36E-05	5.49E-05	S.54E-05	5.67E-05		5.92E-05	6.09E-05	0.3015-05	0.191.405	9.33E-05	1.24E-04	1.58E-04	1.84E-04	208E-04	2.23E-04	(lb/dsct)	Ç	TIONS			
	0.22	0.09	0.11	0.13	0.13	0.13	0.13	0.14	0.14	0.15	0.15	0.15	0.21	0.29	0_34	0.45	0.51	0.55	(lb/hr)	PMR _c				
	0.25	0.10	0.12	0.15	0.15	0.15	0.15	0.16	0.16	0.17	0.18	0.17	0.25	0.33	0.39	0.53	0.59	0,63	(lb/hr)	PMR _z				
2.0380	1 7610	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.05	0.06	0.08	0.10	0.10	(gal/hr)	PMR ₂				

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AFVR event performed by Excalibur Environmental Services, Inc. on January 20, 2009.

Vacuum applied to monitoring wells MW-4 and MW-17.

O.01 and 0.97 feet of free-phase petroleum product was measured in MW-4 and MW-17, respectively, prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppn - parts per million Q_{rd} flow at DSCFM DSCFM - Dry Standard Cubic Feet per Minute

PPM₄ - "dry" concentration PPM₅ - volumetric concentration of VOC emissions as carbon, dry basis, at STP

K - number of earbons in calibration gas

C_m. mass concentration of VOC emissions as carbon

C_c. mass concentration of VOC emissions as carbon, dry basis, at STP

PMR_c. pollutant mass removal of VOCs as carbon

 PMR_g . pollutant mass removal of VOCs as gasoline

 B_{waw} . Ib of water per lb of dry air B_{wc} , water vapor % by volume Calculations have been derived from published guidance.

UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13 AFVR Gauging Data (January 21, 2009) Former Ryder Truck Terminal Greenville, South Carolina

					2	Tonitoring W.	Monitoring Well Canging Data	oto						
		Vacuum	Vacuum Readings			S S S S S S S S S S S S S S S S S S S	a Saugana	Dente to West) () () () () () () () () () (-			Air En	Air Emissions
Time	MW-2	WW.6	MXX/ 1.6	MAKKY 10	, in the second		1	Deptil to water (reet B1OC)	er (reet B1OC	<i>(</i> -)			Influent	Effluent
2000	7	0-WIW.	CI-WIN	81-WW	7-MI	MW-5	9-MW	MW-12	MW-14	MW-15	MW-18	MW-2D	(maa)	(maa)
1015	13	61	61	19	29.03	28.33	29.11	29.81	29.93	28.39	29.42	30.16	730	15
1015	13	17	61	19		28.34		29.81	29.53			30.20	663	15
1045	21	21	19	20		28.35		29.81	29.12			30.23	465	12
1115	21	21	19	20	_	28.37		29.81	28.88			30.27	445	17
1145	21	21	19	20		28.38		29.81	28.64			30.30	437	17
1215	21	21	19	20		28.41	, - -	29.81	28.92			30.35	15/	14
1245	21	21	19	20	1.I	28.43	Li	29.81	29 19	Т	T	30.40	431	14
1315	21	21	19	20	ΕI	28.46	E	20.07	20.44	NΞ	NE	20.40	444	14
1345	21	21	10	20	ΛΞ	20.10	ΛΞ	25.01	29.44	IΛ	IΛ	30.43	472	14
1415	21	21	10	200	E I	20.43	R	18.67	29.68	SE	S E	30.46	492	14
1445	21	21	101	02	ŁΛ	28.50	Λd	18.67	29.76	IΛ	ŀΛ.	30.47	490	13
1515	21	2 2	17	07	V	16.82	ſΨ	29.81	29.83	ΗV	Α¥	30.48	482	13
1515	1 6	12 6	Á	07		28.52		29.81	29.88			30.49	475	13
1616	21	77	61	20		28.53		29.81	29.92	_		30.50	471	13
101	17	17	IJ	20		28.55		29.81	29.97			30.51	470	13
1645	21	21	19	20		28.56		29.81	30.01		•	30.52	483	13
1715	21	21	. 19	20		28.58		29.81	30.05		••	30.57	107	13
1745	21	21	19	20	29.28	28.59	28.80	29.81	30.08	28.75	30.58	30.54	40/	13
		Wate	Water Level Change (ft)	e (ft)	0.25	0.26	-0.31	0.00	0.15	98.0	1 16	20:35	TOF	CI
									T	25:0	7.10	V.C.V		

AFVR event performed on January 21, 2009.

0.01, 0.01, 0.19, and 0.19 feet of free-phase petroleum product was detected in MW-2, MW-6, MW-15, and MW-18, respectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 photo-ionization detector (PID).

btoc - below top of casing

ppm - parts per million Water Level Change (feet)= Final depth to water minus initial depth to water; positive = drawdown; negative = rise

AFVR Gauging Data (January 21, 2009)
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

		Г	_	Г	Т	Т	Т	Т	T-	_	_	_	_	_	_	,	_	7	_	_			_	
	$\mathbf{B}_{\mathbf{ws}}$	Averag	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	Date				
	0.217	Average Values	1745	1715	1645	1615	1545	1515	1445	1415	1345	1315	1245	1215	1145	1115	1045	1015	0945	Time				
	B _{wsw}	22	22	22	12	22	n	22	22	22	22	22	22	22	22	22	22	22	22	(in. Hg)	Vacuum			
	0.131	1.816	1.863	1873	1.877	1.867	1.853	1.847	1.841	1.844	1.822	1.794	1 783	1 777	1 757	1761	1.775	1.771	1.763	(ft/min)	Velocity	AFVR F		
	ا	3 0	3 0	، اد	3 0	ر د	2	3	3 0	١ ا	2	3 (• 0	, 0	, 0	, .		3,	4	(in)	Pina	AFVR FIELD MEASUREMENTS		
	145	146	148	150	150	152	152	152	152	152	152	152	140	140	140	128	128	120	1 3	lemp		REMENTS		
	82.6	71.8	72.7	73.1	74.4	76.4	77.1	78.2	79.5	81.6	82.8	84.2	88.5	92.3	93.0	93.6	92.3	92.7	(%)	Rel. Humidity			_	
	496	461	487	483	479	471	475	482	490	492	472	447	451	437	445	465	663	730	(ppm)	2	1		WELL ID #	
		8:00	7:30	7:00	6:30	6:00	5:30	5:00	4:30	4:00	3:30	3:00	2:30	2:00	1:30	1:00	0:30	- 0	(hr:min)	Elapsed Time			WELL ID #:MW-2, MW-6, MW-15 and MW-18	
	67.61	69.24	69.35	69.30	68.93	68.19	67.97	67.75	67.86	67.05	66,02	65,62	66.71	65.95	66,00	67,99	67.84	67,53	(DSCFM)	1			W-6, MW-1	
	633.45	588.89	627 10	60.919	88 119	601.66	606.77	615.71	625.93	628.49	602.94	571.00	57611	558 32	568 45	501.00	846.03	932.51		PPM,			5 and MW-	
		2,400,40	7 409 40	2 1 2 2 2		7 406 65		33 2	7 503 73	2513.05	741176	7.784.00	76767	20000	3 777 80	3 397 00	3 207 70	3 730 05		PPM		č	.18	
Total Pounds of (4 4	4	4	4	. 20							4	4	-		4			,	r l	EMISS			
Total Pounds of Carbon Recovered as Emissions:	1,175.33	1,241.62	1,231.42	1,221,22	1,200.83	1.211.02	1,228.87	1,249.27	1,254.37	1,203.37	1,139.64	1,149,83	1,114.14	1,134.54	1,185.53	1,690,33	1.861.15	(mg/asm2)	6	2	EMISSION CALCIN ATIONS			
as Emissions:	7.34E-05 7.89279E-05	7.75E-05	7.69E-05	7.62E-05	7.50E-05	7.56E-05.	7.67E-05	7.80E-05	7.83E-05	7.51E-05	211E-05	7.18E-05	6.96E-05	7.08E-05	7.40E-05	1.06E-04	1.16E-04	(lb/dscf)	Ç	CNIONS	ATTONIC			
	0.30 0.32	0.32	0.32	0.32	1570	0.31	0.31	0.32	0.32	0.30	0.28	0.29	0.28	0.28	0.30	0.43	0.47	(lb/hr)	PMR					
	0.35 0.37	0.37	0.37	0.36	0.35	0.36	0.36	0.37	9.36	0.34	0.32	0.33	0.32	0.33	0.35	0.50	0.54	(lb/hr)	PMR _e					
2.5616	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	505	0.06	0.08	0.09	(gal/hr)	PMR,					
																					_	_	_	

Total Gallons of Gasoline Recovered as Emissions: Total Pounds of Gasoline Recovered as Emissions:

0.4743 2.9645

NOTES:

AFVR event performed by Excalibur Environmental Services, Inc. on January 21, 2009.

Vacuum applied to monitoring wells MW-2, MW-6, MW-15, and MW-18.

0.01, 0.01, 0.19, and 0.19 feet of free-phase petroleum product was detected in MW-2, MW-6, MW-15, and MW-18, respectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

 PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

DSCFM - Dry Standard Cubic Feet per Minute

ppm - parts per million Q_{std} flow at DSCFM PPM_d - "dry" concentration

K - number of carbons in calibration gas
C_{un}. mass concentration of VOC emissions as earbon
C_c. mass concentration of VOC emissions as earbon, dry basis, at STP
PMR_c. pollutant mass removal of VOCs as earbon

PMR_x, pollutant mass removal of VOCs as gasoline B_{ww}. Ib of water per Ib of dry air B_w, water vapor % by volume Calculations have been derived from published guidance.

TABLE 10

Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

SCI	Date Sample	d Thickness (feet) NA	(μg/L)	Toluene (µg/L)	Ethyl Benzene (µg/L)	E Xylenes (μg/L)	Total BTEX (μg/L)	MTBE (μg/L)	Naphthalen (μg/L)	EDB (μg/L)	1,2-D- (µg/l
	12/13/96	NA NA	20.6	1,000	700	10,000		40	25	0.05	(Jig/1
	02/10/98	NA	ND	1.74	2.61	6.4	31.35	ND	ND	NT	
	03/29/99	NA	2.6	ND ND	ND	ND	ND ND	ND	ND	ND	NT NT
	07/05/01	NA	ND	ND	ND	ND_	2.6	ND	ND	NT	NT
N 6337 1	01/28/03	NA	ND	ND	ND ND	ND	ND	ND	ND	NT	NT
MW-I	02/03/04	NA	ND	ND	ND ND	ND	ND ND	ND ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND ND	ND ND	ND	ND	NT	NT
	02/23/06	NA NA	ND	ND		ND	ND_	ND	ND	ND	NT
	05/29/07	NA.	ND	ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA	ND	ND	ND	ND	ND_	ND	ND	NT	NT
	02/23/09	NA	ND	ND	ND	ND ND	ND	ND	ND	ND	ND
	12/13/96	NA	249	22.5	ND 42.5	ND	ND	ND	ND	0.028	NT
	02/10/98	0.7	NS	NS NS	43.5	363	678	11.1	900	NT	NT
	03/29/99	1.25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	1,25	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	1.92	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	02/02/04	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	0.23	NS		NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	120	NS NS	NS	NS	NS	NS	NS	NS	
	05/29/07	- 9.26	NS	ND	6.8	170	296.8	ND	240	0.33	NS
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NT
	02/23/09	0.02		NS	NS	NS	NS	NS	NS		NS
	02/10/98	NA	NS 26	NS	NS	NS	NS	NS	NS	NS NS	NS NC
	03/29/99		2.6	ND	ND	3.2	5.76	ND	12.5	NS ND	NS
	07/05/01	NA NA	3.47	ND ND	ND	ND	3.47	3.12		ND	NT
	01/28/03	NA NA	ND	ND ND	ND	ND	ND	ND	4.3 ND	NT	NT
MWan	02/03/04	NA NA	1.4	ND	ND	ND	1.4	1.2		NT	NT
MW-2D	01/20/05	NA NA	ND	ND	ND	ND	ND	3.7	ND ND	NT	NT_
	02/23/06		ND	ND	ND	ND	ND	ND		NT	NT
	05/29/07	NA NA	ND	ND	ND	ND	ND	ND	ND	ND ND	NT
		NA NA	ND	ND	ND	ND	ND		ND ND	ND	NT
	09/09/08	NA NA	ND	ND	ND	ND	ND ND	ND ND	ND ND	NT	NT
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND ND	ND ND	ND	ND
	02/10/98	NA	62.5	6.4	19.3	193		ND ND	ND	ND	NT
	03/29/99	0.01	NS	NS	NS	NS NS	281.2 NS	ND NO	106	ND	NT
MW-3	07/05/01	0.04	NS	NS	NS	NS	NS NS	NS NC	NS	NS	NS
	01/28/03	0.12	NS	NS	NS	NS	NS NC	NS NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS NS	NS NC	NS NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS NS	NS NS	NS NS	NS	NS	NS
	02/23/06				-15 1	Monitoring We	NS ell Abandoned	NS	NS NS	NS	NS
	02/24/06	NA	40.0	ND	ND	81.0		100			
MW-3R	05/29/07	NA NA	48.0	ND	ND	109.0	121	ND	120	0,90	NT
	09/09/08	NA	23.2	ND	ND	17.7	157	ND	140	0.51	NT
	02/23/09	0.6	NS	NS	NS	NS NS	40.9 NS	ND NC	63.2	0.44	ND
	02/10/98	NA	2.2	ND	1.73	150	153.93	NS	NS	NS	NS
	03/29/99	NA NA	ND	ND	ND	10.6	10.6	ND ND	186	ND	NT
	07/05/01	NA	ND	ND	ND	21.5	21.5	ND ND	26,2	NT	NT
	01/28/03	NA NA	ND	ND	ND	ND ND	ND ND	ND ND	49.6	NT	NT
MW-4	02/02/04	NA	ND	ND	ND	ND	ND	ND ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND ND	ND ND	ND	NT	NT
	02/23/06	NA	ND	ND	ND	ND	ND ND	ND ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND ND	ND ND	ND ND	NT
-	09/09/08	0.96	NS	NS	NS	NS	NS	ND NC	ND	NT	NT
	02/23/09					Dry		NS	NS	NS	NS
ļ	02/10/98	NA	16,5	ND	ND	6.83		170			
	03/29/99	NA	ND	ND	1.13	6.83	23.33	ND	-33.3	ND	NT
ļ	07/05/01	NA	ND	ND	ND ND		7.39	ND	50.2	NT	NT
	01/28/03	NA	25.2	11.5	5.10	ND 22.4	ND TIE	ND	ND	NT	NT
MW-5	02/02/04	NA	23.1	4.0	2.0	32.4	74.2	ND	5.0	NT	NT
Į.	01/20/05	NA	11.0	ND	ND ND	8.7 ND	37.8	ND	ND	NT	NT
Ĺ	02/23/06	NA	ND	ND	ND ND	ND ND	11.0	ND	ND	ND	NT
L	05/29/07	NA	ND	ND	ND ND	ND	ND I	ND	ND	ND	NT
L	09/09/08	NA	ND	ND	ND ND	ND	ND	ND	ND	NT	NT
	02/23/09	NA	1.0	5.9	2.8	ND 7.0	ND	ND	ND	ND	ND
I	02/10/98	NA	523.0	1,670	104	7.8	17.5	ND	9.7	ND	NT
L	03/29/99	1.83	NS	NS	NS NS	434	2,731	92.7	409	ND	NT
	07/05/01	>3.0	NS	NS NS		NS	NS	NS	NS	NS	NS
L	01/28/03	>3.0	NS	NS	NS NS	NS	NS	NS	NS	NS	NS
4W-6	02/02/04	2.19	NS	NS NS	NS NC	NS	NS	NS	NS	NS	NS
L	01/20/05	1.72	NS	NS NS	NS NG	NS	NS	NS	NS	NS	NS
	02/23/06	1.54	NS	NS	NS NC	NS	NS	NS	NS	NS	NS
Γ		0.63	NS	NS NS	NS NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.42	NS		NS NS	NS	NS	NS	NS	NS	NS
	02/23/09		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	NS	NS	NS	NS	NS	NS	NS	NS
	09/15/99	NA	ND T	ND) III)	Dry					110
Г	07/05/01	NA	12.9	ND ND	ND	ND	ND	ND	ND	NT	NT
Γ	01/28/03	NA	6.2	ND	ND	11.6	24.5	6.8	20.1	NT	NT
fW-7	02/02/04	NA		ND	ND	4.0	10.2	3.2	6.0	NT	NT
····	01/20/05	NA	ND ND	ND ND	ND	ND	ND	3.8	ND	NT	
	02/24/06	NA NA		ND	ND	ND	ND	ND	ND	ND	NT
	09/09/08	NA NA	ND NT	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/09	NA NA	NT 24.0	NT	NT	NT	NT	NT	NT	NT	NT
	09/15/99	NA NA	34.0	ND	ND	40.6	74.6	2.8	89,9	0,23	NT
	07/05/01	NA NA	ND	ND	ND	ND	ND	ND	ND		NT
-	01/28/03	NA NA	ND	ND	ND	ND	ND	ND	ND ND	NT	NT
-	02/02/04		ND	ND	ND	ND	ND	ND	ND ND	NT	NT
W-8		NA	ND	ND	ND	ND	ND	ND		NT	NT
·	01/20/05	NA	ND	ND	ND	ND	ND		ND ND	NT	NT
-	02/24/06 05/29/07	NA	ND	ND	ND	ND	ND	ND ND	ND	ND	NT
-		NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
1	09/09/08	NA	NT	NT	NT	NT	ND ND	ND NT	ND	NT	NT
	02/23/09	NA	ND						NT	NT	NT

Laboratory Analytical Results
Volatile Organic Compounds
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (μg/L)	Ethyl Benzene (µg/L)	Xylenes	Total BTEX	МТВЕ	Naphthalene	EDB	1,2-DC
SC DI	IEC RBSL	NA	5	1,000		(μg/L)	(μg/L)	(μg/L)	(µg/L)	(Hg/L) 0.05 ND ND ND ND ND ND ND ND ND N	(μg/L)
	02/03/04	NA	ND	1,000 ND	700	10,000		40	25	0.05	
	01/20/05	NA	ND	ND	ND	ND	ND	ND			5
MW-9	02/23/06	NA	ND		ND	ND	ND	ND			NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND			NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND			NT
	02/23/09	NA	ND	ND ND	ND	ND	ND	ND			NT
	02/02/04	NA	ND		ND	ND	ND	ND			ND
	01/20/05	NA	ND	ND	ND	ND	ND	ND			NT
MW-10	02/24/06	NA	ND	ND	ND	ND	ND	ND			NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND			NT
	09/09/08	NA	ND ND	ND	ND	ND	ND	ND			NT
	02/23/09	NA	ND ND	ND	ND	ND	ND	ND			NT
	02/02/04	NA	ND ND	ND	ND	ND	ND	ND			ND
	01/20/05	NA NA	ND ND	ND	ND	ND	ND	ND			NT
MW-11	02/24/06	NA NA	ND ND	ND	ND	ND	ND	ND	(Hg/L) (Hg/L) 225 0.05 ND ND	NT	
1414-11	05/29/07	NA		ND	ND	ND	ND	ND			NT
	09/09/08	NA NA	NT	NT	NT	NT	ND	NT			NT
	02/23/09	NA NA	NT	NT NT	NT	NT	ND	NT			NT
	02/24/06	NA NA	ND	ND	ND	ND	ND	ND .			NT
MW-12	05/29/07	NA NA	ND ND	ND	ND	ND	ND	6.1			NT
W W-12	09/09/08	NA NA	ND	ND	ND	ND	ND	11.0			NT
	02/23/09	IVA	ND	ND	ND	ND	ND	11.8			NT
	02/24/06	NA I				Dr		11.0	ND	ND	ND
MW-13	05/29/07	NA NA	100	ND	ND	110	210	ND	-00		
W W-13	09/09/08	NA NA	160	ND	ND	199	359	ND			NT
	02/23/09	NA NA	77	ND	ND	101	178	ND			NT
	02/24/06	NA NA	23.5	ND	ND	46.2	69.7	ND			ND
MW-14	05/29/07	NA NA	160	34.0	480	620	1,294	ND			NT
M W-14	09/09/08	NA NA	220 82.4	ND	550	700	1,470	ND		(ug/L)	NT
	02/23/09	NA NA	175	3.81	54.8	67.1	208,11	ND			NT
	02/24/06	NA		9.9	303	119.8	607.7	1.9			ND
MW-15	05/29/07	NA NA	100	8.0	25.0	160	293	ND			NT
M W-13	09/09/08	0.29	190	12.0	21	240	463	ND			NT
	02/23/09	0.29	NS	NS	NS	NS	NS	NS NS			NT
MW-16	02/23/09	NA NA	NS	NS	NS	NS	NS	NS NS			NS
W-17	02/23/09	0.79	ND	ND	ND	ND	ND	ND ND			NS
4W-18	02/23/09	0.45	NS	NS	NS	NS	NS	NS NS			NT
	VAI 43/07	30.45	NS	NS	NS	NS	NS NS	NS NS	NS	NS T	NS

Notes:

µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milligrams/liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSL's

NA = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled due to the presence of free-product

NS = Not Sampled due to the presence of free-product

NE = RBSL has not been established.

RBSL = Risk Based Screening Level

* Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

TABLE 11 Laboratory Analytical Results 8-RCRA Metals Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

Mary 1969	Wilson	Well			Barium (µg/L)	Mercury (µg/	L) Cadmiu (μg/L)		~.	mium Silv	er (µg/L) L	ead ()
March Marc	March Marc	30				2	5			· · ·		_
MW-1	MW-1	l l			NT	NT	NT					15
MAN-14	March 1969	4			NT	NT					NT	NT
MW.1	MW-1	1									NT	41.0
MW-1	MW-1	H		NT						T		14.0
MW-1 00,000-94 NT	MW-1		01/28/03									
10,2005 NT	101/2005 NT	MW-1	02/03/04				NT	NT	N			
0.021006 NT	### 100-25-00 MT	I					NT	NT				
0.025997 N.T. N.T	19,02907 NT	1			NT	NT	NT					NT.
	MAY	1			NT	NT						NT
000008	MW-14	1		NT	NT						NT	
027,000 ND	WATER 1972 1972 1972 1972 1972 1973 1974		09/09/08	NT						r	NT	
121096	### 1919-99 NT		02/23/09	ND				NT	N7	1	NT	
MW-20	MW-2		12/13/96				ND	ND				
MW-2	MW-2	I				NT	NT	NT				
MW-2	MW-2P March	1			NS	NS	NS					_NT
MW-20	MW-2 0792-01 NS	I		NS	NS						٧S	NS
MW-2 0.72602 NS	MW-2	li .		NS	NS				NS	1	48	
MW-20	MW-2 00,000-00 NS		01/28/03	NS				NS	NS	1	4S	
MU-2016	MW-20	MW-2	02/02/04					NS	NS			
MW-30		1					NS	NS				
### 1505/907 388 NS	MAT MT MT MT MT MT MT MT					NS	NS					
MW-3P	MW-3P				NT	NT						NS
MW-32 0000008	0.000066 NS	1		NS	NS	NS				N	T	NT
West MW-32	l		NS	NS					N	IS		
MW-3P	MW-3P		02/23/09						NS			
MW-2D 0.02999	MW-2D							NS				
MW-2D MY-2D MY-2D	MW-12 MW	1				NT	NT				-	
MW-1P	MW-3P 00,000 NT											32.0
MW-2D 01/20/3 NT NT NT NT NT NT NT N	MW-2D 0/28/03 NT NT NT NT NT NT NT N				NT							ND
MW-2p 009404 NT NT NT NT NT NT NT 002406 NT NT NT NT NT NT NT 002406 NT NT NT NT NT NT NT 009008 NT NT NT NT NT NT NT N	MW-2p 00:00:00		01/28/03	NT						N'		
01/2005	MW-38	MW-2D	02/03/04						NT			
### MV-4 ### APP APP APP APP APP APP APP APP APP								NT	NT			
MW-18 MW	MW-3 My My MY MY MY MY MY M						NT	NT				
MW-4 0059108 MT MT MT MT MT MT MT M						NT						
MW-34	MW-31				NT	NT						NT
MW-31	MW-38			NT						N	ì	NT
MW-4 02/1098 NT NT NT NT NT NT NT N	MW-34 MW-36 MW-37 MW-37 MW-37 MW-38 MW-38 MW-38 MW-38 MW-38 MW-38 MW-38 MW-38 MW-38 MW-39 MW-39 MW-39 MW-39 MW-30 MW								NT			
MW-34 MW-34 MW-35 MW-36 MW-37 MW-37 MW-37 MW-38 MW-38 MW-38 MW-38 MW-38 MW-38 MW-38 MW-39 MW-39 MW-39 MW-39 MW-30 MW	MW-3 032999 NT NT NT NT NT NT NT		02/10/98					ND	ND			
MW-3 MW-4 MW-3 MW-3 MW-3 MW-3 MW-3 MW-3 MW-4 MW-8 MW-3 MW-3 MW-3 MW-4 MW-8	MW-3 MW-3						NT					
MW-3 Miles	MW-3 MW-3 M					NT	NT					
MW-4		MW.2			NT	NT						NT
	MW-4	11111-5		NT	NT					NT	1	NT
MW-3R	01/20/05 NT		02/02/04	NT					NT	NT		
MW-3R	MW-3R		01/20/05	NT				NT	NT	NT		
MW-3R 022406	MW-3R 0224096				NI L	NT	NT_	NT			-	
MW-3R 05/29/07 NT	MW-38 05/29/07 NT N						Well A	bandoned		141		٧T
### 1989-99 NT	09/09/08 NT				NT	NT			1700			
MW-5 09/99/98 NT NT NT NT NT NT NT N	MW-5 09/09/08 NT NT NT NT NT NT NT N	MW-3R		NT	NT	NT				NT	N	٧T
MW-6 02/210/9 NS	MW-4			NT	NT					NT	N	1T
02/10/98 NT 11.0 07/03/01 NT NT NT NT NT NT NT NT NT 11.0 07/03/01 NT 11.0 07/03/01 NT	MW-4 02/10/98 NT NT NT NT NT NT NT N		02/23/09	NS					NT NT	NT		
MW-4 03/29/99 NT NT NT NT NT NT NT	03/29/99 NT NT NT NT NT NT NT		02/10/98	NT				NS	NS	NS		
MW-4 0705501 NT NT NT NT NT NT NT N	MW-4 MW-4 MW-4 MW-4 MW-7 MW-8						NT	NT	NT			
MW-4 0102803 NT NT NT NT NT NT NT N	MW-4 012809 NT					NT	NT					
MW-4 012005 NT NT NT NT NT NT NT N	MW-4 01,2005 NT NT NT NT NT NT NT N				NT	NT						.0
MW-4 0.002044 NT NT NT NT NT NT NT	MW-4 0.00014 NT NT NT NT NT NT NT N			NT	NŢ	NT				NT	N	T
01/20/05 NT NT NT NT NT NT NT N	01/2005 NT NT NT NT NT NT NT N	MW-4	02/02/04	NT	NT				NT	NT	N	D
	02/23/06 NT	1	01/20/05					NT	NT	NT		
	05/29/07 NT NT NT NT NT NT NT N	1	02/23/06				NT	NT	NT	NT		
0909098 NS	09/09/08 NS	Ī					NT	NT				
MW-5 O223009 NT NT NT NT NT NT NT N	No.	- 1				NT	NT					
MW-6	MW-6			NS	NS	NS					N'	Γ
02/10/98 NT	02/10/98 NT							No	NS	NS	N:	s
MW-5 03/29/99 NT NT NT NT NT NT NT	03/29/99 NT	L	02/10/98	NT	NT I	NT						
MW-5 07/05/01 NT NT NT NT NT NT NT N	MW-5 07/05/01 NT NT NT NT NT NT NT N	1	03/29/99					NT	NT	NT	20	0
MW-5 01/28/03 NT NT NT NT NT NT NT N	MW-5						NT	NT	NT			
MW-5 02/02/03 NT NT NT NT NT NT NT N	MW-5 02/02/04 NT NT NT NT NT NT NT N	+				NT	NT					
MW-5 02/2010 NT NT NT NT NT NT NT N	MW-5 02/2004 NT NT NT NT NT NT NT N	F				NT						
01/20/05 NT NT NT NT NT NT NT N	01/20/05 NT	MW-5			NT						NE)
02/23/06	02/23/06 NT				NT						NT	`
05/29/07 NT NT NT NT NT NT NT N	05/29/07 NT NT NT NT NT NT NT N	L	02/23/06	NT						NT NT		
09/09/08 NT NT NT NT NT NT NT N	09/09/08 NT NT NT NT NT NT NT N	L	05/29/07						NT			
022309 ND 38.9 ND ND ND 10.6	02/23/09 ND 38.9 ND ND ND 12.7 NT ND	Г						NT	NT			
MW-6 02/10/98 NT NT NT NT NT NT NT N	02/10/98 NT NT NT NT NT NT NT N							NT				
MW-6 02/20/99 NS NS NS NS NS NS NS	MW-6					ND	ND					
MW-6 001/2009	MW-6 03/49/99 NS	-				NT)
MW-6 07/05/01 NS	MW-6 07/05/01 NS				NS						NT	
MW-6 01/28/03 NS NS NS NS NS NS NS N	MW-6 01/28/03 MS MS MS MS MS MS MS M	L		NS						NS		
MW-6 02/02/04 NS NS NS NS NS NS NS N	MW-6 02/02/04 NS NS NS NS NS NS NS N	L	01/28/03						NS	NS		
01/20/05 NS NS NS NS NS NS NS N	01/20/05 NS NS NS NS NS NS NS N	MW-6	02/02/04						NS			
0223/06 NS	0223/06 NS						NS	NS				
0.02,5900	022500 NS	-	02/22/01			NS						
05/29/07 NS	05/29/07 NS				NS	NS					NS	_ 1
09/09/08	09/09/08	<u> </u>										
02733/09	02/23/09	L		NS						NS		
09/15/99 NT NT NT NT NT NT NT	09/15/99 NT NT NT NT NT NT NT		02/23/09			110		NS	NS			\dashv
07/05/01 NT NT NT NT NT NT NT N	07/05/01 NT NT NT NT NT NT NT N			NT I	No.						1 149	-
W.8	000001 NT NT NT NT NT NT NT N						NT	NT	NT	NPT	0.0000000000000000000000000000000000000	
MW-7 01/20/20	MW-7 01/28/03 NT NT NT NT NT NT NT N	+ -				NT						
MW-7 02/02/04 NT NT NT NT NT NT NT N	MW-7										NT	1
01/20/05 NT	01/20/05 NT	-	02/02/04							NT		\neg
022406 NT	022406 NT	MW-7	01/20/05						NT			-
09:09:09 NT NT NT NT NT NT NT N	09/09/08 NT NT NT NT NT NT NT N	MW-7						NT				
1	02/23/09 ND 204 0.35 ND ND 39.6 ND NT NT NT NT NT NT NT	MW-7					NT					
00.22907 ND 204 0.35 ND ND 39.6 ND 23.4	0.25 0.25	MW-7	02/24/06			NT						
09/15/99	09/15/99 NT NT NT NT NT NT NT	MW-7	02/24/06 09/09/08									
07/05/01 NT NT NT NT NT NT NT N	07/05/01 NT NT NT NI NT NT NT ND NT NT NT ND NT	MW-7	02/24/06 09/09/08 02/23/09	ND	204					ND	23.1	
MV-8 01/28/03 NT	01/28/03 NT NT NT NT NT NT NT N	MW-7	02/24/06 09/09/08 02/23/09	ND		NT.		NPT T				
AW-8 02/02/04 NT	### 402/23/09 ND 564 0.47 ND ND NT NT NT NT NT NT		02/24/06 09/09/08 02/23/09 09/15/99	ND NT	NT 1				NT	NT	ND	
MW-8 01/20/05 NT	MW-8 012005 NT		02/24/06 09/09/08 02/23/09 09/15/99 07/05/01	ND NT NT	NT I	NT	NT					
01/2005 NT	01/20/05 NT		02/24/06 09/09/08 02/23/09 09/15/99 07/05/01 01/28/03	ND NT NT NT	NT I	NT	NT	NT	NT	NT	NT	
022406 NT NT NT NT NT NT NT N	022406 NT NT NT NT NT NT NT N	AW 0	02/24/06 09/09/08 02/23/09 09/15/99 07/05/01 01/28/03 02/02/04	ND NT NT NT NT NT	NT I	NT NT	NT NT	NT NT	NT NT	NT NT	NT ND	
05/29/07 NT	05/29/07 NT NT NT NT NT NT NT N	4W-8	02/24/06 09/09/08 02/23/09 09/15/99 07/05/01 01/28/03 02/02/04 01/20/05	ND NT NT NT NT NT	NT I	NT NT NT	NT NT NT	NT NT NT	NT NT NT	NT NT NT	NT ND	
09/09/08 NT NT NT NT NT NT NT NT NT	09/09/08 NT NT NT NT NT NT NT N	4W-8	02/24/06 09/09/08 02/23/09 09/15/99 07/05/01 01/28/03 02/02/04 01/20/05 02/24/06	ND NT NT NT NT NT NT NT	NT I	NT NT NT	NT NT NT NT	NT NT NT NT	NT NT NT NT	NT NT NT	NT ND NT	
ONDER OF THE PARTY	02/23/09 ND 56.4 0.47 ND ND ND 60	1W-8	02/24/06 09/09/08 02/23/09 09/15/99 07/05/01 01/28/03 02/02/04 01/20/05 02/24/06 05/29/07	ND	NT 1	NT NT VT NT	NT NT NT NT NT	NT NT NT NT NT	NT NT NT NT NT	NT NT NT NT	NT ND NT NT	
	AD 56.4 0.47 ND ND 50	4W-8	02/24/06 09/09/08 02/23/09 09/15/99 07/05/01 01/28/03 02/02/04 01/20/05 02/24/06 05/29/07	ND	NT	NT NT NT NT NT	NT NT NT NT NT NT NT	NT NT NT NT NT NT NT NT	NT NT NT NT NT	NT NT NT NT	NT ND NT NT	

TABLE 11 Laboratory Analytical Results 8-RCRA Metals Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

Well		Arsenic (µg/L)	Barium (µg/L)	Mercury (µg/L	Cadmium (µg/L)	Selenium (µg/L)	Chromium (µg/L)	Silver (µg/L)	Lead (µg/L
SC DI	IEC RBSL	50	2000	2	5	50			
	02/03/04	NT	NT	NT	NT		100		15
	01/20/05	NT	NT	NT	NT	NT	NT	NT	14.0
MW-9	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT NT	NT	NT		NT
	09/09/08	NT	NT	NT	NT	NT	NT		NT
	02/23/09	114	5,410	1.2	55.0	NT 64.0	NT		459
	02/02/04	NT	NT	NT	NT		1,720		1,010
	01/20/05	NT	NT	NT	NT	NT	NT	NT	ND
MW-10	02/24/06	NT	NT	NT		NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	14.8	928	1.5	NT 30,2	NT	NT	NT	420
	02/02/04	NT	NT	NT		25.3	474	ND	328
	01/20/05	NT	NT	NT	NT	NT	NT	NT	5.0
MW-11	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
14.11-11	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	6.4	3,040	2.7	NT 137	NT	NT	NT	NT
	02/24/06	NT	NT	NT		39.4	827	ND ND	1,180
MW-12	05/29/07	NT	NT	NT	NT NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT		NT
	02/23/09	Dry	Dry	Dry	Dry	NT	NT		24.5
	02/24/06	NT	NT	NT	NT	Dry	Dry		Dry
MW-13	05/29/07	NT	NT	NT	NT	NT	NT		NT
	09/09/08	NT	NT	NT	NT	NT	NT		NT
	02/23/09	ND	52,9	0.82	ND ND	NT ND	NT		ND
	2/24 2006	NT	NT	NT	NT		ND		ND
MW-14	05/29/07	NT	NT	NT	NT	NT	NT	Silver (µg/L) 5 NT NT NT NT NT NT NT NT NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT		NT
	02/23/09	5.7	902	ND ND	36.8	NT	NT		ND
	02/24/06	NT	NT	NT		22.8	451	ND	251
MW-15	05/29/07	NT	NT		NT NT	NT	NT	NT	NT
	09/09/08	NS	NS	NT NC	NT	NT	NT	NT	NT
أ	02/23/09	NT	NT NT	NS NT	NS	NS	NS		NS
MW-16	02/23/09	ND	82	1.5	NT	NT	NT	NT	NT
MW-17	02/23/09	NS	NS NS	NS NS	ND NO	ND	21.7	ND	10.7
MW-18	02/23/09	NS	NS NS	NS NS	NS	NS	NS	NS	NS
		110	INO	NS	NS	NS	NS	NS	NS

Notes:

TABLE 12

Laboratory Analytical Results Polynuclear Aromatic Hydrocarbons-Detected Compounds Only Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

	Well	Date Sar	npled	Acenaphthe (μg/L)	ne Fluorene (µ	g/L)	Phenanthren (µg/L)	e Naphthaler (μg/L)	TPH (DRO)
	SC	DHEC RBSL		10	10		10	25	NE NE
		12/13/		NT	NT		NT	NT	NT
- 1		02/10/		NT	NT		NT	NT	NT
- 1		03/29/		NT	NT		NT	NT	NT
i		07/05/		NT	NT	_	NT	NT	NT
- 1	MW-1	01/28/		NT	NT		NT	NT	NT
	IVI VV - 1	02/03/		NT_	NT	_	NT	NT	NT
ĺ		01/20/		NT	NT	_1	NT	NT	NT
ı		3/13/20		ND	ND		ND	ND	470
- 1		05/29/0		NT	NT		NT	NT	NT
Į.		09/09/0		NT	NT		NT	NT	NT
⊢		02/23/0		NT	NT	_	NT	NT	NT
- 1		12/13/9		NT	NT		NT	NT	NT
H		02/10/9		NS	NS		NS	NS	NS
Į.		03/29/9		NS	NS	_	NS	NS	NS
- [07/05/0		NS	NS NS	-	NS	NS	NS
	MW-2	01/28/0		NS	NS	-	NS	NS	NS
ŀ		01/20/0		NS NE	NS	-	NS	NS	NS
- 1		03/13/0	6 10	NS 14.0	NS 29.0	-	NS	NS	NS
		05/29/0	7	NS	NS NS	200	49.0	320	260,000
H		09/09/0		NS	NS		NSNS	NS	NS
- 1		02/23/0		NS	NS NS		NS	NS	NS
		02/10/9	_	NT	NT		NS	NS	NS
- 1		03/29/9		NT	NT	+	NT	NT	NT
i		07/05/0		NT	NT	+	NT	NT	NT
		01/28/0		NT	NT		NT	NT	NT
	MW-2D	02/03/04		NT	NT	+	NT NT	NT NT	NT
1	IVI W-ZD	01/20/05		NT	NT	+	NT NT	NT	NT
1		02/23/06		NT	NT	+		NT	NT
		05/29/07		NT	NT	+	NT	NT	NT
1		09/09/08		NT	NT	+	NT NT	NT NT	NT
- 1		02/23/09		NT	NT	+	NT		NT
		02/10/98	_	NT	NT	┿	NT	NT	NT
Į.		03/29/99		NS	NS	+	NS	NT NS	NT
		07/05/01	\top	NS	NS	+	NS	NS NS	NS NG
ı	MW-3	01/28/03		NS	NS	+	NS	NS	NS NC
Į.		02/02/04		NS	NS	+-	NS	NS	NS NC
		01/20/05		NS	NS	+-	NS	NS	NS NS
1		02/23/06				Wei	Il Abandone		1 143
1		03/13/06		ND	5.8	T	ND	79.0	4,000
ļ	MW-3R	05/29/07		NT	NT	1	NT	NT	NT
1		09/09/08		NT	NT	_	NT	NT	NT
-		02/23/09		NS	NS	1	NS	NS	NS
ļ.		02/10/98	-	NT	NT	Т	NT	NT	NT
		03/29/99		NT	NT		NT	NT	NT
ı		07/05/01	╁	NT	NT		NT	NT	NT
		01/28/03	Щ.,	NT	NT	L	NT	NT	NT
	MW-4	02/02/04	41—	NT	NT		NT	NT	NT
ï		01/20/05	4	NT	NT	L	NT	NT	NT
1		02/23/06	+	NT	NT	_	NT	NT	NT
		05/29/07	++-	NT	NT	-	NT	NT	NT
i		09/09/08	╁	NS	NS		NS	NS	NS
\vdash		02/23/09	+	3.000			Dry		
		02/10/98	+	NT	NT	+-	NT	NT	NT
Ĭ		03/29/99	+	NT	NT	╄	NT	NT	NT
Į.			+	NT	NT	-	NT	NT	NT
1	100	01/28/03 02/02/04	+	NT NT	NT NT	1	NT	NT	NT
1	MW-5	01/20/05	+	NT	NT	+	NT	NT	NT
1		02/23/06	+	NT			NT	NT	NT
1		05/29/07	+	NT	NT NT	+	NT	NT	NT
		09/09/08	+	NT	NT	+-	NT	NT	NT
L		02/23/09	1	NT	NT	+	NT NT	NT NT	NT
Г		02/10/98	11	NT	NT	+-	NT	NT	NT
		03/29/99	1	NS	NS	+-	NS NS	NT NS	NT
		07/05/01	1	NS	NS	-	NS NS	NS NS	NS NC
ll l		01/28/03		NS	NS	<u> </u>	NS NS	NS NS	NS NS
	MW-6	02/02/04	T	NS	NS	_	NS	NS NS	NS NS
1		01/20/05	1	NS	NS	-	NS	NS NS	NS NS
		02/23/06	T	NS	NS	-	NS NS	NS NS	NS NS
ĺ		05/29/07		NS	NS	<u> </u>	NS	NS	NS NS
		09/09/08		NS	NS		NS	NS	NS NS
<u> </u>		02/23/09					Dry		NS
l	_	09/15/99		NT	NT		NT	NT	NT
		07/05/01	1	NT	NT		NT	NT	NT
ì		01/28/03		NT	NT		NT	NT	NT
	MW-7	02/02/04	1	NT	NT		NT	NT	NT
		01/20/05	1	NT	NT	_	NT	NT	NT
		02/24/06	1_	NT	NT	_	NT	NT	NT
		09/09/08	1	NT	NT		NT	NT	NT
_		02/23/09	1	NT	NT		NT	NT	NT
		09/15/99	-	NT	NT	_	NT	NT	NT
		07/05/01	-	NT	NT		NT	NT	NT
		01/28/03	_	NT	NT		NT	NT	NT
٠,	Mue	02/02/04	-	NT	NT	_	NT	NT	NT
,	MW-8	01/20/05	ļ	NT	NT		NT	NT	NT
		02/24/06	1-	NT	NT	_	NT	NT	NT
		05/29/07		NT	NT	_	NT	NT	NT
		09/09/08		NT	NT NT		NT	NT	NT
		02/23/09		NT			NT		

Laboratory Analytical Results Polynuclear Aromatic Hydrocarbons-Detected Compounds Only Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

Well	Date Sampled	Acenaphthene (μg/L)	Fluorene (µg/L)	Phenanthrene (µg/L)	Naphthalene (µg/L)	TPH (DRO) (µg/L)
SC DE	IEC RBSL	10	10	10	25	NE
	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
MW-9	02/23/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
MW-10	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT ,	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
MW-11	02/24/06	NT	NT	NT	NT	NT
	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	03/13/06	ND	ND	ND	ND	220
MW-12	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09			Dry		
	03/13/06	5.0	8.6	8.7	160	7,500
MW-13	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	03/13/06	ND	ND	ND	59,0	4,000
MW-14	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	03/13/06	ND	7.4	6.7	230	5,200
MW-15	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NS	NS	NS	NS	NS
MW-16	02/23/09	NT	NT	NT	NT	NT
MW-17	02/23/09	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS

Notes:

µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milityams/liter = approximate Parts Per Million (ppm)

Bold and sladed cells indicate concentrations above RBSL's

A = Abandoned

AN = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Tested

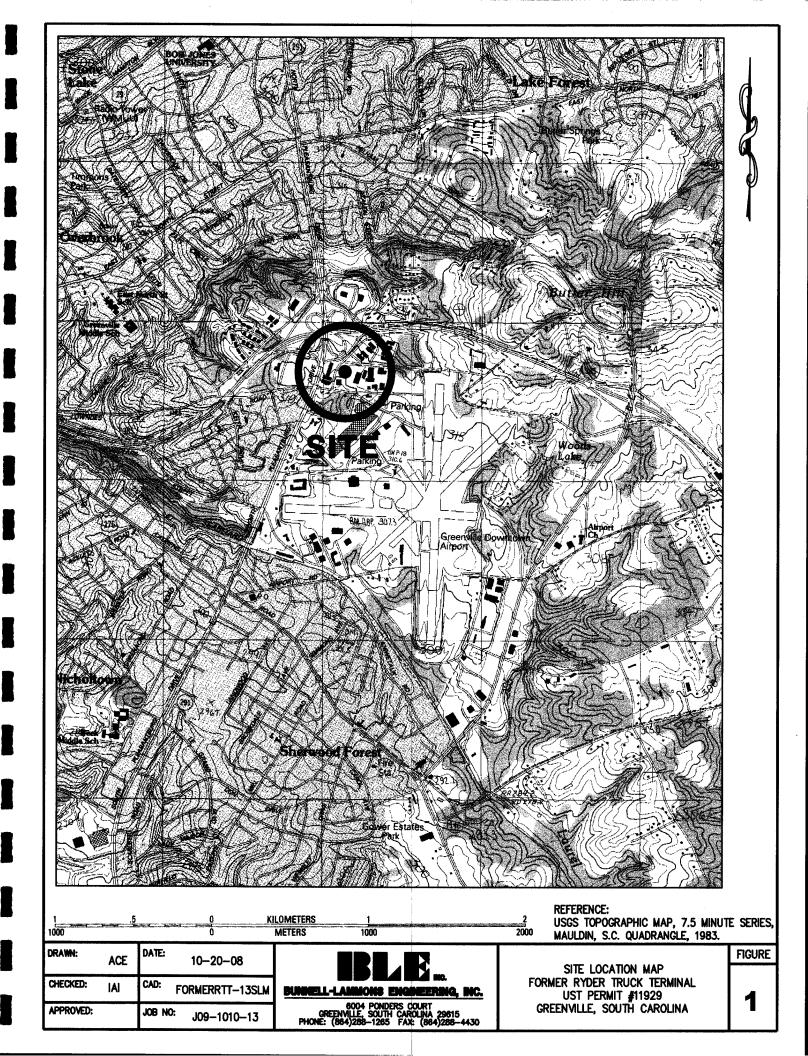
NS = Not Sampled due to the presence of free-product

NE = RBSL has not been established.

RBSL = Risk Based Serening [Level]

* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

FIGURES



APPROVED BY: CHECKED BY: DRAWN BY: MONITORING WELL
DATE GAUGED
FREE PRODUCT THICKNESS (feet) MONITORING WELL

DATE GAUGED

FREE PRODUCT THICKNESS (feet) MONITORING WELL
DATE GAUGED
FREE PRODUCT THICKNESS (feet) Цъ ≥ 鱼 APPROXIMATE SCALE IN FEET OB NO: DATE: Ē COMFORT INN 03-24-09 J09-1010-13 FORMERRTT-13SAM 12-15-08 1-21-09 2-23-09 1.30 0.19 0.13 MW-17 12-15-08 1-21-09 2-23-09 0.63 0.97 0.79 12-15-08 1-21-09 2-23-08 0.15 0.01 DRY /WW-10 €\ ĕ ⊕¥ P¥ • REVISIONS DESCRIPTION MW-4 0 MW-15 WW-2 MW-20 MW-20 M R.L. KUNTZ MW-6 € ₩-17 MR. ROOTER PLUMBING BASIN MW-18 MW-13 몆 OVERHEAD POWER PLANTER NOTE:
FREE-PRODUCT MEASUREMENTS TAKEN ON 2-23-09
WAS DURING THE CURRENT SAMPLING EVENT. ASPHALT MW-3R ₩-12 • WOODS **⊕** ^{MW}-7 FORMER GATEWAY SUPPLY LAKE**→** MW-11 **⊕** ⁸ • EUNNETI-LAMIONE ENGREERING, INC.
GREENILLE SUITH CHROLINA 20015
PHONE: (864)228-1285 FAX: (864)228-430 ROADGATEWAY SUPPLY SITE ASSESSMENT AND FREE-PRODUCT MEASUREMENT MAP FORMER RYDER TRUCK TERMINAL SCOHEC UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA RETERPLYE:
DRAWNG TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES,
SCRUS #17933 DATED 2-21-06. OVERHEAD POWER MONITORING WELL
DATE GAUGED
FREE PRODUCT THICKNESS (feet) MONITORING WELL

MM-3R

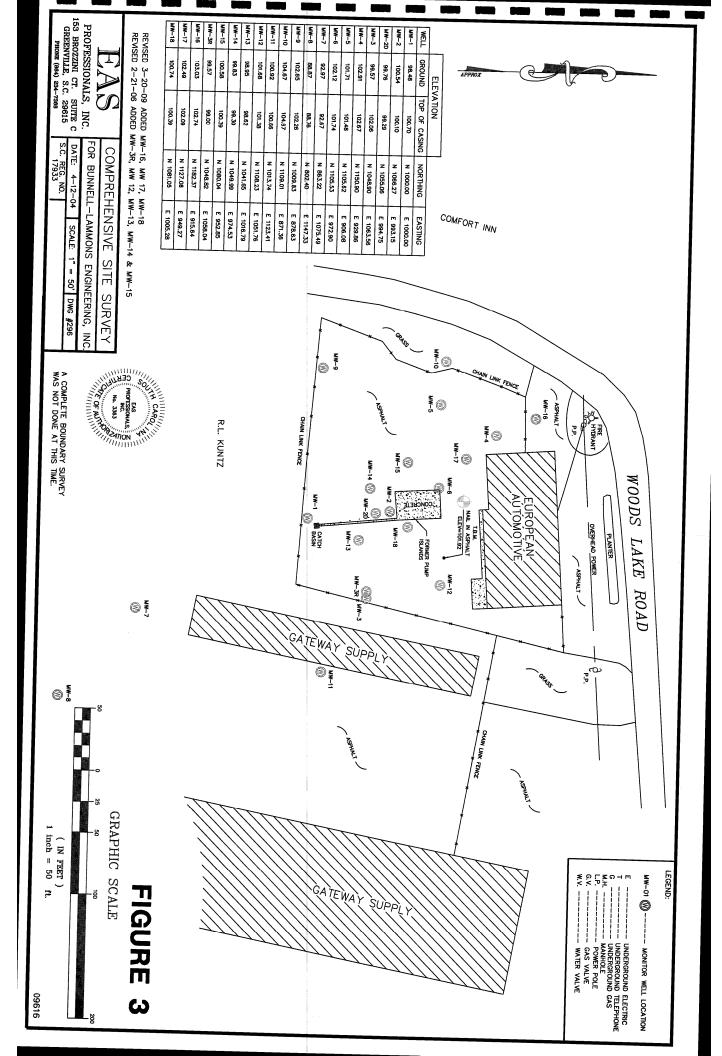
DATE GAUGED

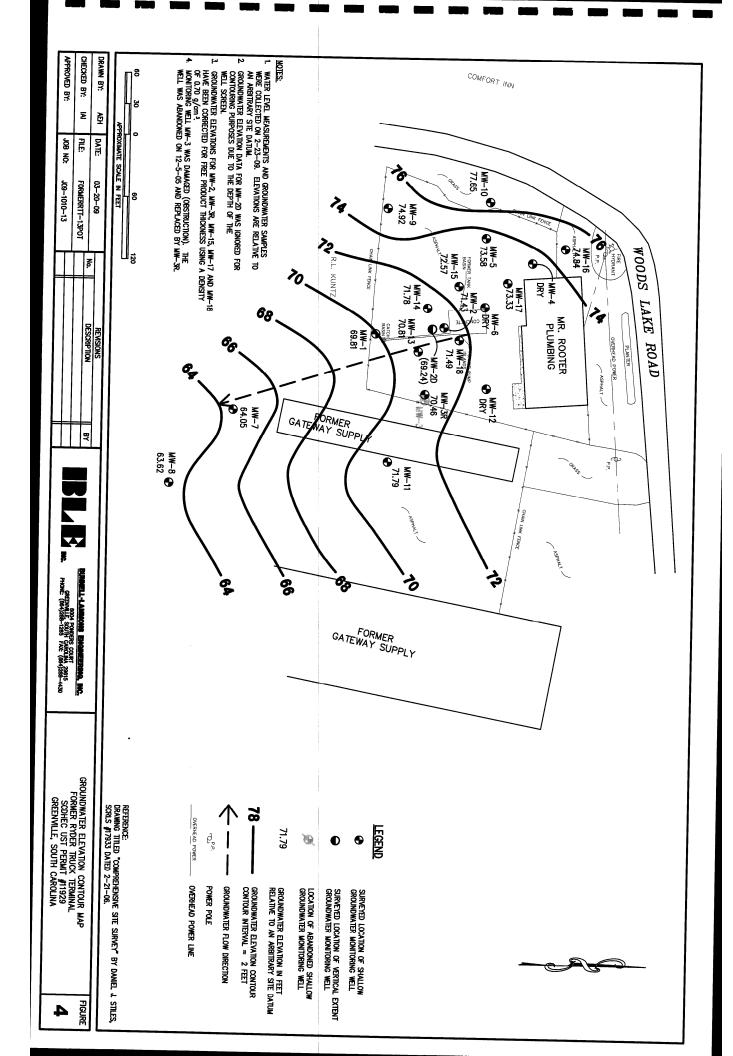
PREE PRODUCT THICKNESS (feet)

0.80 LEGEND MONITORING WELL
DATE GAUGED
FREE PRODUCT THICKNESS (feet) MONITORING WELL

DATE GAUGED

FREE PRODUCT THICKNESS (feet) 옿 • 徼 • NOT DETECTED OVERHEAD POWER LINE POWER POLE LOCATION OF ABANDONED SHALLOW GROUNDWATER MONITORING WELL SURVEYED LOCATION OF VERTICAL EXTENT GROUNDWATER MONITORING WELL SURVEYED LOCATION OF SHALLOW GROUNDWATER MONITORING WELL NW-6 12-15-08 1-21-09 2-23-09 DRY 0.01 DRY 12-15-08 1-21-09 2-23-09 ND 0.01 0.02 FIGURE N





APPENDICES

APPENDIX A

MONITORING WELL CONSTRUCTION DETAILS, BORING LOGS

APPENDIX A

MONITORING WELL CONSTRUCTION PROCEDURES

Type II Well

Type II ground-water monitoring wells borings were advanced using a Geoprobe 6600 DT drilling rig utilizing 4 ¼-inch inner diameter (ID) hollow stem augers. The monitoring well casings consist of 2-inch ID, schedule 40 polyvinyl chloride (PVC) casing with flush-threaded joints installed in an 8 ½-inch nominal diameter augered borehole. The bottom 10-foot section of each well is a manufactured well screen with 0.010-inch wide machined slots. The well screen was installed to the depth of the boring and bracketed the water table. To help prevent cross-contamination, the downhole boring equipment was steam cleaned prior to use and after each subsequent boring.

General

In Type II wells, a washed sand filter pack was emplaced around the outside of the pipe from the bottom of the well casing to at least 2 feet above the top of the well screen. The sand filter pack was used to stabilize the formation and to help yield a less turbid ground-water sample.

A two-foot thick (minimum) bentonite seal was installed on top of the sand filter pack to seal the monitoring well at the desired level. The well annulus was then grouted to the surface with a cement/bentonite grout mixture. A lockable PVC cap and a steel, bolted manhole cover was secured over the wells.



BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL
CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-16

PROJECT: Former Ryder Truck Terminal

CLIENT: Allen Vaughn

LOCATION: Greenville, South Carolina

DRILLER: Landprobe, T. Coon

ELEVATION: 103.03

LOGGED BY: I. Irizarry

PROJECT NO.: J08-1010-13

START: 11-19-08 END: 11-20-08

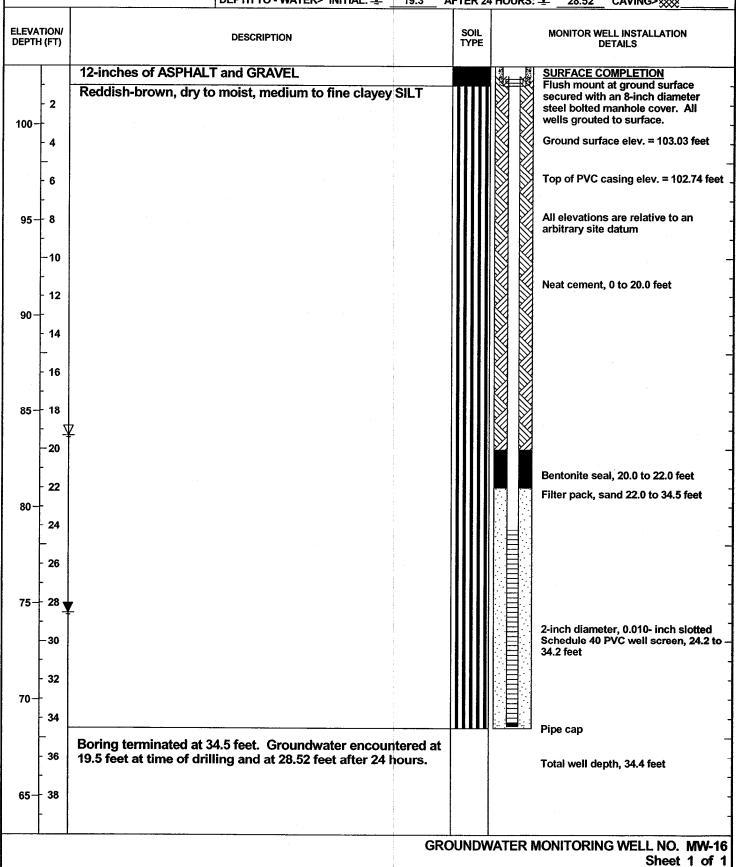
DRILLING METHOD: Geoprobe Truck Mount 6600; 4-1/4 inch hollow stem augers

DEPTH TO - WATER> INITIAL:

19.3 AFTER 24 HOURS:

28.52 CAVING>

28.52 CAVING>



MW#16



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:	7. PERMIT NUMBER:
Name:	
(last) (first)	8. USE:
Address:	☐ Residential ☐ Public Supply ☐ Process
City: State: Zip:	☐ Irrigation ☐ Air Conditioning ☐ Emergency
	☐ Test Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 11-19-08
2. LOCATION OF WELL: COUNTY: GREENAIC	34.5 ft. Date Completed: 11-20-08
Name: Former Ryder Truck term	10. CASING: Threaded Welded
Street Address: woods lake 12d	Diam.: Height: AboveBelow ☑
City: Greenville SC Zip: 29615	Type: A PVC Galvanized Surface 3" ft.
l patitionales	Steel Other Weight b./ft b./ft b./ft b./ft b./ft b./ft b./ft. Drive Shoe?
Latitude: Longitude:	in. toft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER	11. SCREEN:
of the state of th	Type: PYC Diam.: 8"
4. ABANDONMENT: Yes No	Slot/Gauge:
T. ADARDONALINI. D 165 B NO	Set Between: 34 ft. and 27 ft. NOTE: MULTIPLE SCREENS
Grouted Depth: from ft. to ft.	ft. andft. USE SECOND SHEET Sieve Analysis Yes (please enclose) Yes
*Thickness Depth to	
Formation Description of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours
Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
* Reddish Bruin, dry-moist; Medium to Pine, chayey silt 34.5 34.5	ft. after hrs. Pumping G.P.M. Pumping Test: Yes (please enclose) Yes
The First Still	Yield:
·	14. WATER QUALITY
	Chemical Analysis ☐ Yes ☐ Re— Bacterial Analysis ☐ Yes ☐ No
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack) Yes No
	Installed from 39,5 ft. to 22 ft. Effective size 20,40 Uniformity Coefficient
	Effective size Uniformity Coefficient
	16. WELL GROUTED? DIVES DI No
	Propert Cernent □ Bentonite □ Bentonite/Cernent □ Other Depth: From ⇒0' ft. to 5wface ft.
	17. NEAREST SQURCE OF POSSIBLE CONTAMINATION: ft direction Type
	Well Disinfected ☐ Yes ☑ No Type: Amount:
	18. PUMP: Date installed: Not installed P
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft, Capacity gpm
	TYPE: Submersible Jet (shallow) Turbine
	☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: TOM COON CERT. NO.: 1961
	Address: (Print) 6004 Ponders C+ Level: A B C D (circle one)
	Chrosenville SC 29615
*Indicate Water Bearing Zones	Telephone No.: 864 - 288-1265 Fax No.: 864 - 288-4450
	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	
aa' to ao'	
Bentonite Chips	Signed:
	Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rotary ☐ Driven	Joseph G.S. th 1448
Cable tool Cother Acgue	Charles Mills



BUNNELL-LAMMONS ENGINEERING, INC.

DRILLER:

GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-17

LOGGED BY: I. Irizarry

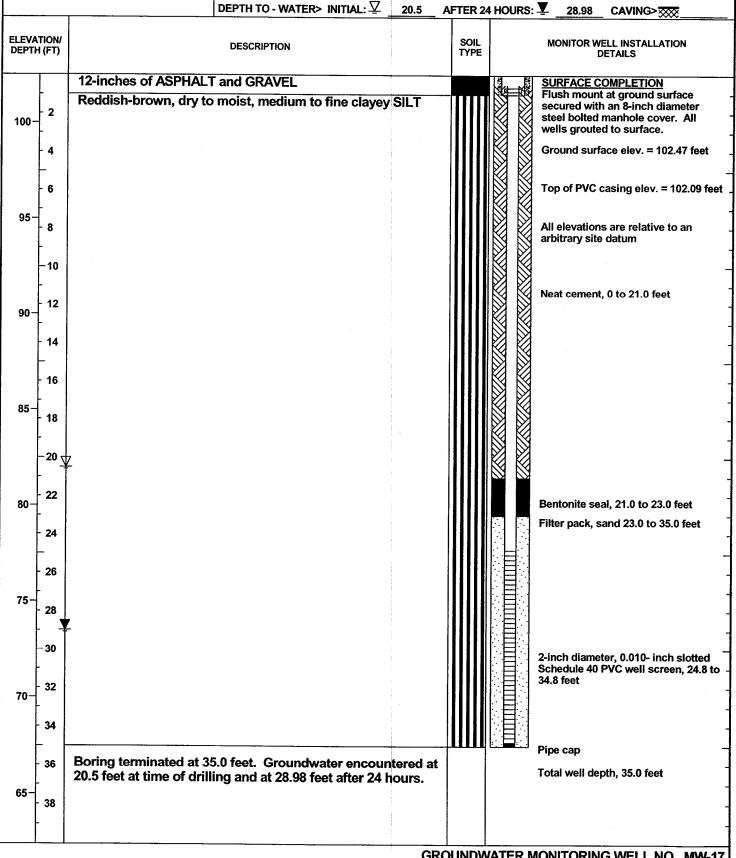
 PROJECT:
 Former Ryder Truck Terminal
 PROJECT NO.:
 J08-1010-13

 CLIENT:
 Allen Vaughn
 START:
 11-19-08
 END:
 11-20-08

 LOCATION:
 Greenville, South Carolina
 ELEVATION:
 102.49

DRILLING METHOD: Geoprobe Truck Mount 6600; 4-1/4 inch hollow stem augers

Landprobe, T. Coon



OT WELLIND 1010 13 CE

GROUNDWATER MONITORING WELL NO. MW-17 Sheet 1 of 1



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:		7. PERMIT NUMBER:
Name:		
(last)	(first)	8. USE:
Address:		Residential Public Supply Process
		☐ Irrigation ☐ Air Conditioning ☐ Emergency
City: State:	Zip:	☐ Test Well
	Home:	
2. LOCATION OF WELL: CO		
Name: Former Ryder Truck		10. CASING: Threaded
Street Address: Woodslidle		Diam.: Height: Above Below Type: ■ PVC □ Galvanized Surface □ ##
city: Greenville SC	Zip: 29615	Type: PVC Galvanized Surface 6
		Steel Other Weight lb./ft.
Latitude: Longitude	•	m. to ———ft. depth Drive Shoe? ☐ Yes 💆 No
		in. toft. depth
3. PUBLIC SYSTEM NAME: PU	BLIC SYSTEM NUMBER:	11. SCREEN: DVC Type: DIam.: 2" Slot/Gauge: D/D Length: 10'
		Type: Diam.:
4. ABANDONMENT: Yes	No	
T. ADAIDONNEIN. El 165 EX	140	Set Between: 35 ft. and 35 ft. NOTE: MULTIPLE SCREENS
Grouted Depth: fromf	t to ft	ft. andft. USE SECOND SHEET
Glodied Deptit. Iron	*Thickness Depth to	Sieve Analysis
Formation Description	of Bottom of	12. STATIC WATER LEVEL ft. below land surface after 24 hours
1 Simulati 2000 puon	Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
& Beddish-Brun, ary - Most,		ft. after hrs. Pumping G.P.M.
medium-Awe, clayey sitt	35 35	Pumping Test 🛍 Yes (please enclose) 📂 No
, ,,,		Yield:
		14. WATER QUALITY
		Chemical Analysis 🛘 Yes 🖼 🗘 Bacterial Analysis 🗍 Yes 🖼 No
		Please enclose lab results.
		15. ARTIFICIAL FILTER (filter pack) X Yes \(\Delta \) No
		Installed from 35 ft. to 23 ft.
		15. ARTIFICIAL FILTER (filter pack) 11. Yes 11. No Installed from 35 ft. to 33 ft. Effective size 26/40 Uniformity Coefficient
		16. WELL GROUTED? Telephone Telephone Telephone Telephone Telephone Telephone Telephone Telephone Telephone Telephone Telephon
		Neat Cement ☐ Bentonite ☐ Bentonite/Cement ☐ Other
		Depth: From 21' ft. to SWFACE ft.
		17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
		Type
		Well Disinfected Yes No Type: Amount:
· 		18. PUMP: Date installed: Not installed 👿
		Mfr. Name: Model No.:
		H.P Volts Length of drop pipe ft. Capacity gpm
		TYPE: Submersible Jet (shallow) Turbine
		☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
		19. WELL DRILLER: Tom Cook CERT. NO.: 1961
		Address: (Print) 6004 panders C+ Level: A B C D (circle one)
		CHICLINATE SC 2401
*Indicate Water Bearing Zones		Telephone No.: 864-288-1265 Fax No.: 864-288-4430
		20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)		my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:		
23' to 21'		_
Bentonite Chips		Signed: 71-19-08
		Well Driller
6. TYPE: ✓ Mud Rotary ✓ Jetted	□ Bored	If D Level Driller, provide supervising driller's name:
☐ Dug ☐ Air Rota		1 th the state
☐ Cable tool	vall	Posephy Smith # 1648
	4 - ,	<u> </u>



BUNNELL-LAMMONS ENGINEERING, INC.

GEOTECHNICAL AND ENVIRONMENTAL
CONSULTANTS

GROUNDWATER MONITORING WELL NO. MW-18

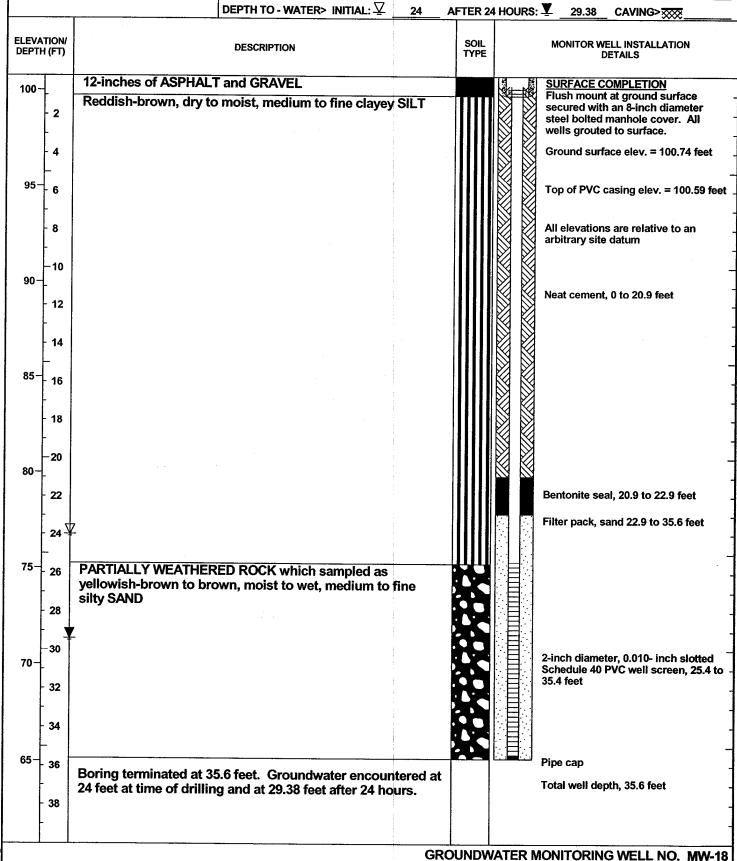
Sheet 1 of 1

PROJECT: Former Ryder Truck Terminal PROJECT NO.: J08-1010-13

CLIENT: Allen Vaughn START: 11-20-08 END: 11-20-08 LOCATION: Greenville, South Carolina ELEVATION: 100.74

DRILLER: Landprobe, T. Coon LOGGED BY: I. Irizarry

DRILLING METHOD: Geoprobe Truck Mount 6600; 4-1/4 inch hollow stem augers





Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

TROMOTE PROTECT PROSPER	, , , , , , , , , , , , , , , , , , , ,
1. WELL OWNER INFORMATION:	7. PERMIT NUMBER;
Name:	
(last) (first) Address:	8. USE:
	☐ Residential ☐ Public Supply ☐ Process
City: State: Zip:	☐ Irrigation ☐ Air Conditioning ☐ Emergency
	☐ Test Well ☐ Monitor Well ☐ Replacement
Telephone: Work: Home:	9. WELL DEPTH (completed) Date Started: 11-20-08
2. LOCATION OF WELL: COUNTY: GROWNVILLE	35, 6 ft. Date Completed: //-20-08
Name: Former Ryder Truck Term.	10. CASING: A Threaded Welded
Street Address: Woods Ake Rd	Diam.: PY C Height: Above Below
City: Greenville SC Zip: 29615	Type: ☐ PVC ☐ Galvanized Surface
	Steel D Other Weight lb./ft.
Latitude: Longitude:	in. toft. depth Drive Shoe?
	in. toft. depth
3. PUBLIC SYSTEM NAME: PUBLIC SYSTEM NUMBER:	11. SCREEN: PVC Type: Diam.: 2"
	Type:
4. ABANDONMENT: Yes X No	25 05
·	Set Between:ft. andft. NOTE: MULTIPLE SCREENSft. USE SECOND SHEET
Grouted Depth: fromft. toft.	Sieve Analysis Yes (please enclose) No
*Thickness Depth to	12. STATIC WATER LEVEL ft. below land surface after 24 hours
Formation Description of Stratum Stratum	13. PUMPING LEVEL Below Land Surface.
Daddich - Brow , dry - wist,	ft. after hrs. Pumping G.P.M.
medium-Pine eleversilt 25 25	Pumping Test: Yes (please enclose) No
Rudium - fine e kny y silt 25 25 Rudisanyled as yllowisk trum The moist wet I med line 10.6 35.6	Yield:
sitty fand 1 meontine 10.6 35.6	14. WATER QUALITY
	Chemical Analysis ☐ Yes 🖾 Mo Bacterial Analysis ☐ Yes 🗷 Mo
	Please enclose lab results.
	15. ARTIFICIAL FILTER (filter pack)
	Installed from 35.6 ft. to 20.9 ft. Effective size 20/40 Uniformity Coefficient
	Effective size 20/40 Uniformity Coefficient
	16. WELL GROUTED? TYPES INO
	■ Neat Cement ■ Bentonite ■ Bentonite/Cement ■ Other
	Depth: From ft. to ft.
	17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft direction
	Type
	Well Disinfected 🗖 Yes 💆 No Type: Amount:
	18. PUMP: Date installed: Not installed Q
	Mfr. Name: Model No.:
	H.P Volts Length of drop pipe ft. Capacity gpm TYPE:
	TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine ☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal
	19. WELL DRILLER: Tom Cool Address: (Print) 6004 Panders CT Level: A B C D (circle one)
	Address: (Print) 6004 Ponders C1 Level: A B C D. (circle one) Appenville SC 29615
	Almandia of was
*Indicate Water Bearing Zones	Telephone No.: 864-388-1265 Fax No.: 864-368-4430
(loo a 2nd about it was ded)	20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under
(Use a 2nd sheet if needed)	my direction and this report is true to the best of my knowledge and belief.
5. REMARKS:	· i
	Signed: Date: 1)-30-08
	Well Driller
6. TYPE: ☐ Mud Rotary ☐ Jetted ☐ Bored	If D. Lavel Driller, provide expansions driller's server
☐ Dug ☐ Air Rotary ☐ Driven	If D Level Driller, provide supervising driller's name:
☐ Cable tool	Joe G. Sm.4h 71648

KEY TO SOIL CLASSIFICATIONS AND CONSISTENCY DESCRIPTIONS

BUNNELL-LAMMONS ENGINEERING, INC. GREENVILLE, SOUTH CAROLINA

Penetration Resistance* **Blows per Foot**

Relative **Density**

0 to 4 Very Loose 5 to 10 Loose 11 to 20 Firm 21 to 30 Very Firm 31 to 50 Dense over 50 Very Dense

SANDS

Penetration Resistance* **Blows per Foot**

Consistency

SILTS and CLAYS

0 to 2 Very Soft 3 to 4 Soft 5 to 8 Firm 9 to 15 Stiff 16 to 30 Very Stiff 31 to 50 Hard over 50 Very Hard

*ASTM D 1586

Particle Size Identification

Boulder: Greater than 300 mm Cobble: 75 to 300 mm Gravel: Coarse - 19 to 75 mm Fine - 4.75 to 19 mm Sand: Coarse - 2 to 4.75 mm Medium - 0.425 to 2 mm Fine - 0.075 to 0.425 mm

Silt & Clay: Less than 0.075 mm

KEY TO DRILLING SYMBOLS





Split Spoon Sample

NR = No reaction to HCL

NA = Not applicable

NS = No sample



Groundwater Table at Time of Drilling



Groundwater Table 24 Hours after Completion of Drilling



Undisturbed Sample

KEY TO SOIL CLASSIFICATIONS



Well-graded Gravel



Low Plasticity Clay CL



Clayey Silt



Silty Sand



Poorly-graded Gravel GP



Sandy Clay CLS



Sandy Silt MLS



Topsoil **TOPSOIL**



Partially Weathered Rock BLDRCBBL



Silty Clay CL-ML



Sand SW



Trash **MUCKPEAT**



High Plasticity Clay



Silt ML



Clayey Sand



FILL



Poorly Graded Sand



APPENDIX B
DISPOSAL RECORDS

Environmental Soils Inc.

PO Box 295 • Lattimore, NC 28089 Phone 704-434-0075 • Fax 704-434-9533

Non-Hazardous Waste Manifest # 29741
Date Load Number O/
(numbered sequentially as trucks are dispatched)
ENVIRONMENTAL CONSULTANT: BLE TNC
Contact: Mr. Trevor Benton Phone: 864-288-1265 Fax: 864-288-4436
GENERATOR: Estate of Robert B. Vaugh
Address: 4 East Parker Road, Greenville, SC 29611 County: Greenville
Contact:Phone:
WASTE ORIGINATION POINT: Complete Address: Former Rypler Truck Termina
10 Woods Lake Road, Greenville, SC.
Class & Type of Contaminate in soil Petroleum SCDHEC # 11929
SOURCE OF CONTAMINATION: (ex. UST or other source) UST Sustem
GENERATORS CERTIFICATION OF WASTE CONSTITUENTS: In lieu of submitting analytical data (method)
8240 and 8270) verifying that the waste in question does not contain organic constituents other than those which wou
normally appear in analysis of virgin petroleum product residue, I am submitting this Certificate of Waste
Constituents. I certify that I am familiar with the source of contamination of the soil and further certify the source, to the best of my knowledge, contains no contaminants other than that listed above.
Generators Signature: Date:
TRANSPORTER: EXCALLOUY ENV. SEVVICES, INC.
Contact: Brodley A. Morris Phone: 864-967-9744
As the carrier, I certify that the materials described above being shipped under this non-hazardous materials
manifest are properly classified, packaged, labeled, secured, and are in proper condition for transport in commerce
under the applicable regulations governing transportation, and I hereby receive this material for delivery to the facility designate.
Carrier Signature: Date: 1-13-09
TRUCK #: YOLUME: (O DRUMS
TRUCK DRIVER SIGNATURE: 100 de Marie DATE: 1-13-09
DESTINATION: Environmental Soils Inc. 910 Crowder Rd, Shelby, NC 28150 Dedicated Land Application
Site Permit #SR0300038
I certify that the carrier has delivered the materials described above to this facility, and I hereby accept this material
for treatment and/or disposal in a manner that has been authorized by the Sate of North Carolina.
Facility Signature: KAY Towery Date: 1/13/09
Company Name Title:
White/Facility Canary/Invoice Pink/Carrier Goldenrod/Generator

Goldenrod/Generator

NON-HAZARDOUS WASTE MANIFEST

		designed for use on elite		····					
	NON-HAZA WASTE MA	ANIFEST	1. Generator's US				Manifest Document No	218	2. Pag of
	3. Generator's Name and Former Ryc Former Ryc ID Woods Greenville, 4. Generator's Phone (Mailing Address	Tempine	(A Evanillare Enviro	nmantal				
	10 Uses	acy I fucic	P.P	403 Cotton Hall	Court				
	Greenville	156		Simpsonville, St	29680				
					967 -	9744			
	5. Transporter 1 Company Excalibur Env	/ Name rironmantal		6. USE	PA ID Number		A. State Trans	(<u>ANA) GRT-</u> (37 <i>44</i> —
							B. Transporte	r 1 Phone	
	7. Transporter 2 Company	/ Name		8. US E	PA ID Number		C. State Trans		
	A B - 1						D. Transporte		
	9. Designated Facility Nam VLS Recovery	y Services , LLC	•	10. US E	PA ID Number		E. State Facili	ity's ID	
	305 South Ma						C. Coellindo Di	hana	
	Mauldin, SC	29662		SCR000	762468		(884)	762 -9953	
	11. WASTE DESCRIPTION	N _.				12. Co	ntainers	13.	
						No.	Туре	Total Quantity	-
	a.				· ·			·	
	Petroleum I	Impacted Wate	r #8829					1,025	6
4								1 1/0 00	
G	b.							,	
E								i	·
EL									
R	С.								
 									
O R	d.					_			
									- 1
				•					-
	G. Additional Descriptions f	for Materials Listed Abov	e				H. Handling C	odes for Wastes Listed Ab	ove
200									
			•						
	15. Special Handling Instruc	ctions and Additional Info	ormalion					. e.r.#	1, 92
	15. Special Handling Instruc	ctions and Additional Info	ormation			S	CDHE	c SITE#	1192
	15. Special Handling Instruc	ictions and Additional Into	ormation			S	CDHE	c SITE#	1192
	15. Special Handling Instruc	ections and Additional Info	omation			S	CDHE	C SITE#	1192
	15. Special Handling Instruc	ictions and Additional Into	ormation			S	CDHE	c SITE#	1192
	16. GENERATOR'S CERTI	IFICATION: I hereby cert	tify that the contents o	f this shipment are fully ar	d accurately describ	ed and are in a		C SITE#	1192
	16. GENERATOR'S CERTI	IFICATION: I hereby cert	tify that the contents o	f this shipment are fully ar est are not subject to fede	d accurately describral hazardous waste	ed and are in a		c SITE#	1192
	16. GENERATOR'S CERTI	IFICATION: I hereby cert	tify that the contents o	f this shipment are fully ar est are not subject to fede	d accurately describral hazardous waste	ed and are in a		c SITE#	II 92
	16. GENERATOR'S CERTI in proper condition for tr	IFICATION: I hereby certransport. The materials d	tify that the contents o	f this shipment are fully ar est are not subject to fede Signature	d accurately describral hazardous waste	ed and are in a		FRTT [
	16. GENERATOR'S CERTI in proper condition for tr	IFICATION: I hereby certransport. The materials d	tify that the contents o	est are not subject to fede	d accurately describral hazardous waste	ed and are in a		FRTT [Date
TR	16. GENERATOR'S CERTIFIN proper condition for the Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled	IFICATION: I hereby certansport. The materials d	tify that the contents o lescribed on this manif	est are not subject to fede	d accurately describral hazardous waste	ed and are in a		FRTT [Date onth Day
TR	16. GENERATOR'S CERTINATION OF ITS IN Proper condition for its In proper condition for its In proper condition for its In proper Central Institute of Its Insti	IFICATION: I hereby certansport. The materials of MORRIS	tify that the contents o lescribed on this manif	est are not subject to fede	d accurately describral hazardous waste	ed and are in a		FRTT [Date Date Date Date
TR	16. GENERATOR'S CERTIIN IN Proper condition for the Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1	IFICATION: I hereby cert ransport. The materials d 	tify that the contents of lescribed on this manif	est are not subject to fede	d accurately described hazardous waster and the same and	ed and are in a		FRTT M	Date Date Date Date
TR	16. GENERATOR'S CERTIIN IN PROPERTY A. IT. Transporter 1 Acknowled BRADLEY A. IT. Transporter 2 Acknowled	IFICATION: I hereby cert ransport. The materials d 	tify that the contents of lescribed on this manif	est are not subject to fede Signature Signature	d accurately describral hazardous waste 3 Judd Language Langua	ed and are in a		FRTT [Date Date Date Date
TR	16. GENERATOR'S CERTIIN IN Proper condition for the Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1	IFICATION: I hereby cert ransport. The materials d 	tify that the contents of lescribed on this manif	est are not subject to fede	d accurately describral hazardous waste Suddle	ed and are in a		FRTT [D M	Date onth Day 2 1 Ce onth Day 3 1 Ce onth Da
TRANSPORTER	Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1 18. Transporter 2 Acknowled Printed/Typed Name	IFICATION: I hereby certansport. The materials of Section 1. MORRIS adgement of Receipt of MORRIS adgement of Receipt of Modern 1. Moder	tify that the contents of lescribed on this manif	est are not subject to fede Signature Signature	d accurately describral hazardous waste 3 3 4 2 4 4 4 4 4 4 4 4 4 4 4	ed and are in a		FRTT [D M	Date Date Date Date
TRANSPORTER F	16. GENERATOR'S CERTIIN IN PROPERTY A. IT. Transporter 1 Acknowled BRADLEY A. IT. Transporter 2 Acknowled	IFICATION: I hereby certansport. The materials of Section 1. MORRIS adgement of Receipt of MORRIS adgement of Receipt of Modern 1. Moder	tify that the contents of lescribed on this manif	est are not subject to fede Signature Signature	d accurately described hazardous waster a sandly accurately described by the sandly accurately according to the sandly accurately described accurately according to the sandly	ed and are in a		FRTT [D M	Date Date Date Date
TRANSPORTER FA	Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1 18. Transporter 2 Acknowled Printed/Typed Name	IFICATION: I hereby certansport. The materials of Section 1. MORRIS adgement of Receipt of MORRIS adgement of Receipt of Modern 1. Moder	tify that the contents of lescribed on this manif	est are not subject to fede Signature Signature	d accurately describral hazardous waste	ed and are in a		FRTT [D M	Date Date Date Date
TRANSPORTER FAC.	16. GENERATOR'S CERTIIN Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1 18. Transporter 2 Acknowled Printed/Typed Name 19. Discrepancy Indication S	IFICATION: I hereby cert ransport. The materials of MORRIS adgement of Receipt of MORRIS	tify that the contents of lescribed on this manife laterials	Signature Signature	3 rodl	ed and are in a regulations.		FRTT [D M	Date Date Date Date
TRANSPORTER FAC.	Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1 18. Transporter 2 Acknowled Printed/Typed Name	IFICATION: I hereby cert ransport. The materials of MORRIS adgement of Receipt of MORRIS	tify that the contents of lescribed on this manife laterials	Signature Signature	3 rodl	ed and are in a regulations.		FRTT [D M	Date onth Day
TRANSPORTER FACILI	16. GENERATOR'S CERTIIN Printed/Typed Name BRADLEY A. 1 17. Transporter 1 Acknowled Printed/Typed Name BRADLEY A. 1 18. Transporter 2 Acknowled Printed/Typed Name 19. Discrepancy Indication S	IFICATION: I hereby cert ransport. The materials of MORRIS adgement of Receipt of MORRIS	tify that the contents of lescribed on this manife laterials	Signature Signature	3 rodl	ed and are in a regulations.		FRTT [MC	Date Date Date Date

NON-HAZARDOUS WASTE MANIFEST

	<u> </u>	· · · · · · · · · · · · · · · · · · ·			T		
NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID) No.			Manifest Document No.	235	2. Page 1 of
3 Generator's Name and Mailing Address	Eventions:	—————————————————————————————————————					
Former RyderTruck To 10 WOODS LAKE ROP		DE ALCOPULATE			ļ		
Garage mobile, SC	Simpsonville, S	9U 2900U	3 87 - 33	744			
5. Transporter 1 Company Name	6.	. US EPA ID			A. State Transp		
Excalibur Environmental					B. Transporter	1 Phone 04) 857-874	-
7. Transporter 2 Company Name	8.	. US EPA ID	Number		C. State Transp	oorter's ID	
<u> </u>					D. Transporter	2 Phone	
Designated Facility Name and Site Address VLS Recovery Services, LLC 305 South Main Street	. 10	O. US EPA ID	Number		E. State Facility	r's ID	
Mauddh, SC 29862	ì	907000782	15 9		F. Facility's By	2.09 53	7
11. WASTE DESCRIPTION			!	12. Co	ntainers	13. Total	Ü
			-	No.	Туре	Quantity	W
a. Petroleum impaciaci Wate.	r #6629					875	1
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5. Special Handling Instructions and Additional Info	formation						
·			5	< > L	FC C	SITE# 110	220
				C 1317		11	16
						*	
		* ANN					
				7 //			
6. GENERATOR'S CERTIFICATION: I hereby cer in proper condition for transport. The materials of	rify that the contents of this si described on this manifest are	hipment are fully and accended to federal his	curately describer	d and are in a	all respects		7
GENERATOR'S CERTIFICATION: I hereby cell in proper condition for transport. The materials of the proper condition for transport.	rtify that the contents of this st described on this manifest are	hipment are fully and accepted to federal his	curately describerazardous waste r	1 ^		T	Date
	rtify that the contents of this st described on this manifest are	hipment are fully and ace not subject to federal his	curately describerazardous waste n	1 ^	all respects	Month	Date Day
	rtify that the contents of this st described on this manifest are		curately describe azardous waste r	1 ^			Date Day
rinled/Typed Name BRADLEY A. MORRIS			curately describe azardous waste n	1 ^			
rinled/Typed Name PRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of Mininted/Typed Name			curately describer azardous waste n	1 ^			^{Day}
rinled/Typed Name SRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of M		Signature	curately describer azardous waster of Ager	1 ^		Month	Day 22 Date
rinled/Typed Name SRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of Minited/Typed Name SRADLEY A. MORRIS		Signature	curately described azardous wastern Ager dly	1 ^		Month	Day 22 Date
rinted/Typed Name BRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of Minited/Typed Name BRADLEY A. MORRIS 3. Transporter 2 Acknowledgement of Receipt of Minited/Typed Peceipt of Minited/Typed Name		Signature	curately describe azardous waste real days	1 ^		Month	Day Date Day 22
rinted/Typed Name SRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of Mininted/Typed Name SRADLEY A. MORRIS 3. Transporter 2 Acknowledgement of Receipt of Mininted/Typed Page 1		Signature Signature	curately described azardous wastern Agent dly	1 ^		Month	Day Date Day 22 Date Day Date
rinted/Typed Name SRADLEY A MORRIS 7. Transporter 1 Acknowledgement of Receipt of M rinted/Typed Name SRADLEY A MORRIS 3. Transporter 2 Acknowledgement of Receipt of M rinted/Typed Name		Signature Signature	curately described azardous wastern Agen	1 ^		Month	Day Date Day 22 Date
7. Transporter 1 Acknowledgement of Receipt of N rinted/Typed Name	Materials Materials	Signature Signature Signature	Ager dly dly	L.		Month	Day Date Day 22 Date
rinted/Typed Name BRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of Mininted/Typed Name BRADLEY A. MORRIS 3. Transporter 2 Acknowledgement of Receipt of Mininted/Typed Name 3. Discrepancy Indication Space 3. Facility Owner or Operator, Certification of receipt	Materials Materials	Signature Signature Signature	Ager dly dly	L.		Month	Day Date Day 22 Day Day Date
rinled/Typed Name SRADLEY A. MORRIS 7. Transporter 1 Acknowledgement of Receipt of Marinted/Typed Name SRADLEY A. MORRIS 8. Transporter 2 Acknowledgement of Receipt of Marinted/Typed Name 9. Discrepancy Indication Space	Materials Materials	Signature Signature Signature	Ager dly dly	A. A. tern 19.	Moni Moni	Month	Day Date Day Date Day Date

NON-HAZAKDOUS WASIE

NON-HAZARDOUS WASIE MANIFES!

-	NON-HAZARDOUS WASTE MANIFEST	1. Generator's US E	1			والمستعمر	Manifest Document N	245	2.
اد	3. Generator's Name and Mailing Address Former Kydun Tru	LE Jerm	i re i Dur Environ	mantzi					
	TO MOOD & LAKE	KA 403 Cotton	Hall Court						
	Accepitally SC	Simpsonali	le, 90 295	Ŋ	nen na				
	5. Transporter 1 Company Name		6.	US EPA ID No	957 - 97	1744	A. State Tran	recorded ID	
	Exoslibur Environmental		1	00 11 7 10 10	HINGI		R Transnort	sporter's ID er 1 Phone (연합4) 영화7-영향	ĠĽ.
	7. Transporter 2 Company Name			US EPA ID NO	mber		C. State Tran		
۹			Ī				D. Transport	- 	
	9. Designated Facility Name and Site Address		10.	US EPA ID N	mber		E. State Faci		
4	305 South Main Street	-							
	Mauidin, SC 29862		. 507	ROCO7 6248	25		F. Feedings P	162 -9953	
Į									
	11. WASTE DESCRIPTION					12. Co		13. Total	
	a.					No.	Туре	Quantity	
1		. woone						1200	
	Petroleum Impacted Water	er 77 0029						DRU	~
ľ	b.		·				·	-:	
	• •			i					
ŀ					·				
	C.								
١									
ŀ	d.				······································				
						1 1			
						1 1			
Ī	G. Additional Descriptions for Materials Listed Abor	ve				1	H. Handling C	odes for Wastes Listed Above	1 }
						Į.			
]		•		1				1	
						1			
						- 1			
-	15. Special Handling Instructions and Additional Inf	formation				L			
				1	61	KIA	PC. T	ERMITH	-
						- 10 t ·		E RATIO	1
								•	
	16. GENERATOR'S CERTIFICATION: Linguistry on	utify that the contests of th	<i>i</i> n aliment						4
	18. GENERATOR'S CERTIFICATION: I hereby ce in proper condition for transport. The materials of the proper condition for transport.	described on this manifest	are not subjec	to federal hazan	lous waste re	and are in ai gulations.	respects		
				!	A				
				:	A.	1	har F	FRTT	
	Printed/Typed Name		Sig	nature (Age	nt	tor F	= RTT	(
	Printed/Typed Name BRADLEY A. MORRIS	·.	Sig		Ma	nt dL	for F	=RTT Month	
	· · · · · · · · · · · · · · · · · · ·	Materials	Sig		Dia	nt dly	for F		
⊩	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of N Printed/Typed Name	. · · · · · · · · · · · · · · · · · · ·			Aqu Dia	nt dL	for F		1
_	BRADLEY A. MORRIE 17. Transporter 1 Acknowledgement of Receipt of N Printed/Typed Name BRADLEY A. MORRIS			neture /	Age Dia	nt dly dl	M M	Month 2	1
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of N Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M			neture /	Aque Sia	nt dly dl	M M	Month 2	1
	BRADLEY A. MORRIE 17. Transporter 1 Acknowledgement of Receipt of N Printed/Typed Name BRADLEY A. MORRIS		Sig	neture /	Dia.	nt dly dl	Lor F	Month 2	- - - - - - - -
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name		Sig	nature	Dia.	nt dl dl	tor f	Month Month	1
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of N Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M		Sig	nature	Dra.	at dl	Lor F	Month Month	1
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name		Sig	nature	Dra Sra	nt dly dl	Lor F	Month Month	1
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name 19. Discrepancy Indication Space	Naterials	Sig	nature	Dia.	nt dly dl	Lor F	Month Month	1
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name	Naterials	Sig	nature	Sta.	nt dly dl	tor f	Month Month	1; 1; 1
	BRADLEY A. MORRIS 17. Transporter 1 Acknowledgement of Receipt of M Printed/Typed Name BRADLEY A. MORRIS 18. Transporter 2 Acknowledgement of Receipt of M Printed/Typed Name 19. Discrepancy Indication Space 20. Facility Owner or Operator; Certification of receipt	Naterials	Sig Sig	nature			tor f	Month Month	1

APPENDIX C

PURGING AND SAMPLING PROCEDURES, AND FIELD SAMPLING LOGS

APPENDIX C

MONITORING WELL PURGING AND SAMPLING PROCEDURES

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well development). Therefore, the monitoring wells which required purging were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the ground-water quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated as required.

The monitoring wells were purged using 42-inch long disposable bailers attached to an unused polypropylene cord. To minimize the potential for cross-contamination between wells, a new clean bailer was used for each well.

Samples for VOC analysis were placed in laboratory prepared 40-milliliter glass vials with Teflon[®] lined lids and marked with identifying numbers. The VOC samples were preserved using hydrochloric acid (HCl). Samples for 8-RCRA Metals were placed in 250ml plastic bottles with preserved with Nitric acid and marked with identifying numbers. The sample containers were maintained at approximately 4° Celsius in a refrigerated sample cooler and shipped to PACE Analytical Services in Huntersville, NC via overnight delivery service for analysis.



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Sample feet(ft) gals gals gals If free product is present over 1/8 inch, sampling will not be required. 31.00 13.83 27.11 4.61 ₹ Post (Standard Purge Volume) inch of 31.00 3.89 ž 5th Vol. Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 27.11 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = Free Product Thickness Fotal Well Depth (TWD) MW-1 3 Casing Volumes = 3 X 3rd Vol. Vell Diameter (D) Well # 2nd Vol. Date/Time 35630-32 1st Vol. 11929 1130 5.34 Initial Received by Sunny, Slight Breeze, Cool Conductivity Sensor: Site ID# Ivan A. Irizarry Standard Standard Standard serial no. Standard Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) /olume Purged (gallons) 02/23/09 General weather Conditions Relinquished by ime (military) Facility Name: Field Personnel pH Sensor: 3H = 10.0 serial no. pH = 7.0pH = 7.0pH =4.0

Remarks: Well sampled at 11:30 on February 23, 2009.

Sli. Cloudy

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Nater Temperature (°C)

Specific Conductivity

83.8



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feet(ft) gals gals gals "If free product is present over 1/8 inch, sampling will not be required. 35.00 3.22 6.32 1.07 Doct (Standard Purge Volume) inch of 35.00 28.68 0.02 Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 6.32 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) Casing Volume (LWC*C) = Free Product Thickness MW-2 Total Well Depth (TWD) Casing Volumes = 3 X 2rd \/01 Well Diameter (D) Well # 2nd Vol Date/Time 35630-32 1st Vol 324976 11929 Initial Sunny, Slight Breeze, Cool Received by Conductivity Sensor: Site ID# Ivan A. Irizarry Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) 02/23/09 General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: pH = 10.0serial no. pH =4.0 pH = 7.0pH = 7.0

	ISL VOI.	ZIIO VOI.	old voi.	4UI VOI.	om vol.	rosi	Sample
Volume Purged (gallons)							
Time (military)							
hd (s.u)							
Specific Conductivity							
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen (mg/l)							

Remarks: Well not sampled due to 0.02 feet of free product present.



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gals If free product is present over 1/8 inch, sampling will not be required. 54.50 12.47 12.5 (Standard Purge Volume) inch of 54.50 30.05 Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) I Casing Volume (LWC*C) = MW-2D Free Product Thickness Fotal Well Depth (TWD) 3 Casing Volumes = 3 X Well Diameter (D) Well # Date/Time 35630-32 324976 11929 Sunny, Slight Breeze, Cool Conductivity Sensor: Site ID# Ivan A. Irizarry 11.6 Standard Standard Standard serial no. Standard Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 5 6 Ambient Air Temperature (°C) General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: serial no. pH =4.0 pH = 7.0

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0	4.0	4.0	12.5				
Time (military)	1320	1325	1330	1350				
pH (s.u)	5.99	6.02	6.15	5.94				
Specific Conductivity	0.4	116.7	115.2	118.0				
Water Temperature (°C)	19.6	19.3	19.2	19.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear	Clear	Clear	Clear				
Dissolved Oxygen (mg/l)	2.5							

Remarks: Well Sampled at 13:50 on Februar 23, 2009.



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Date 02/23/09			10/c/l #	20				
Field Personnel	Ivan A. Irizarry		İ	MIN-VIN				
General weather Conditions	Sunny, Slight Breeze, Cool		Well Diameter (D)	0	inchof	32 40	foot(#)	
Ambient Air Temperature (°C)	11.6		conversion factor (C): 3.143*(D/2)^2): 3.143*(D/2)^2	5	2		
Facility Name: Fmr Ryder Truck Terminal	Site ID#	11929	for a 2 for a 4	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652				
Quality	Quality Assurance		*Free Product Thickness Total Well Depth (TWD)	ess (Q)	0.60	≠_¢		
pH Sensor: Oakton 35630-62	Conductivity Sensor:	35630-32	Depth to Groundwater (DGW)	er (DGW)	4 1		č	
serial no. 324976	serial no.	324976	1 Casing Volume (LWC*C) =	(C) = 3.44	x 17 =	0.58	۲ ر	
pH =4.0			3 Casing Volumes = 3 X				gais	
pH = 7.0	Standard		•	•	(Standard Purge Volume)	2	2 2 2	
pH = 7.0	Standard				()			•
pH = 10.0	Standard							
Chain c	Chain of Custody		Total Volume of Water Purged Before Sampling	er Purged Before Sar	mpling	NA	gals	
			*If free product is present over 1/8 inch, sampling wiil not be required	sent over 1/8 inch, sa	ampling wiil no	t be required.		
Relinquished by Date/Time	ne Received by	Date/Time)			· · ·
	Initial	1st Vol.	2nd Vol. 3rd Vol	4th Vol	5th Vol	1000	- James	
Volume Purged (gallons)			Γ			1607	Sample	
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)	oudy, cloudy)							
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.6 feet of free product present.



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Sample feet(ft) gals gals gals "If free product is present over 1/8 inch, sampling will not be required. 29.50 ¥ ₹ ₹ Post (Standard Purge Volume) inch of 29.50 Ϋ́ 5th Vol. Fotal Volume of Water Purged Before Sampling -ength of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 sonversion factor (C): 3.143*(D/2)^2 ₹ 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = MW-4 Free Product Thickness Fotal Well Depth (TWD) Casing Volumes = 3 X 3rd Vol. Well Diameter (D) 2nd Vol. Well # Date/Time 35630-32 1st Vol. 324976 11929 Initial Sunny, Slight Breeze, Cool Conductivity Sensor: Received by Site ID# Ivan A. Irizarry 11.6 Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) /olume Purged (gallons) 02/23/09 General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: pH = 10.0pH = 7.0serial no. pH =4.0 pH = 7.0Date

Remarks: Well Dry.

urbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

ime (military)

pH (s.u)



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feet(ft) gals gals 'If free product is present over 1/8 inch, sampling wiil not be required. 29.00 0.56 1.10 0.19 ≸ (Standard Purge Volume) inch of 29.00 ₹ Fotal Volume of Water Purged Before Sampling -ength of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 1.10 0.19 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) | Casing Volume (LWC*C) = *Free Product Thickness MW-5 Fotal Well Depth (TWD) Casing Volumes = 3 X Well Diameter (D) Well # Date/Time 35630-32 324976 11929 Sunny, Slight Breeze, Cool Conductivity Sensor: Received by Site ID# Ivan A. Irizarry 11.6 Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) 02/23/09 General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: pH = 7.0serial no. pH = 7.0pH =4.0

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0		1					
Time (military)	1200							
pH (s.u)	5.90							
Specific Conductivity	0.37							
Water Temperature (°C)	18.7							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	0.79							

Remarks: Well sampled at 12:00 on February 23, 2009.



2 φ Page_

Date	02/23/09				Well #	MW-6					
Field Personnel		Ivan A. Irizarry									
General weather Conditions	. Conditions	Sunny, Slight Breeze, Cool	Cool	l .	Well Diameter (D)	ır (D)	7	inch of	29.00	feet(ft)	
Ambient Air Temperature (°C)	perature (°C)	11.6			conversion fa	conversion factor (C): 3.143*(D/2)^2	3*(D/2)^2		l .		
						for a 2 inch well C = 0.163	ell C = 0.163				
racility Name:	Fmr Kyder I ruck Terminal	erminal Site ID#		11929		for a 4 inch well C = 0.652	ell $C = 0.652$				
					*Free Product Thickness	t Thickness		N A	#.		
		Quality Assurance			Total Well Depth (TWD)	pth (TWD)		29.00	#		
					Depth to Gro	Depth to Groundwater (DGW)	· (>	Dry	#.		
pH Sensor:	Oakton 35630-62	62 Conductivity Sensor:	nsor:	35630-32	Length of Wa	Length of Water Colum (LWC = TWD-DGW)	C = TWD-DG		¥	#	
serial no.	324976	serial no.		324976	1 Casing Volume (LWC*C) =	ne (LWC*C) =	Ą	= 71. X	₹	gals	
pH =4.0	4.0	Standard			3 Casing Volumes = 3 X	les = 3 ×	ΑN	ıı	₹	gals	
DH = 7.0	7.0	Standard					(Standard Purge Volume)	rge Volume)			
pH = 7.0		Standard									
pH = 10.0		Standard									
		Chain of Custody			Total Volume	Total Volume of Water Purged Before Sampling	ed Before Sar	npling	A	gals	
					*If free produ	ct is present ov	er 1/8 inch, sa	*If free product is present over 1/8 inch, sampling wiil not be required	t be required.		
Relinqu	Relinquished by D	Date/Time Received	ed by	Date/Time							
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)	ed (gallons)		-								
Time (military)	(,										
(n·s) Hd											
Specific Conductivity	ductivity										
Water Temperature (°C)	rature (°C)										
Turbidity (sub	jective: clear, sligi	urbidity (subjective: clear, slightly cloudy, cloudy)									
Dissolved Oxygen (mg/l)	ygen (mg/l)										
											•

Well Dry. Remarks:



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feet(ft) gals gals If free product is present over 1/8 inch, sampling will not be required. 32.80 0.71 (Standard Purge Volume) inch of 32.80 28.62 ž Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) 1 Casing Volume (LWC*C) = Free Product Thickness Fotal Well Depth (TWD) 3 Casing Volumes = 3 X Well Diameter (D) Well # 35630-32 Date/Time 324976 11929 Sunny, Slight Breeze, Cool Received by Conductivity Sensor: Site ID# Ivan A. Irizarry 11.6 Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 0.4 0.7 Ambient Air Temperature (°C) General weather Conditions Relinquished by Field Personnel Facility Name:_ pH Sensor: pH = 10.0serial no. pH = 7.0pH =4.0 pH = 7.0

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1035							
(n.a)	4.53							
Specific Conductivity	37.5							
Water Temperature (°C)	18.4							
Turbidity (subjective: clear, slightly cloudy, cloudy)	Clear							
Dissolved Oxygen (mg/l)	0.83							

Remarks: Well sampled at 10:35 on February 23, 2009.



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feet(ft) gals gals gais "If free product is present over 1/8 inch, sampling will not be required. 29.80 2.38 0.79 4.66 Ä inch of (Standard Purge Volume) 29.80 25.14 ≨ Fotal Volume of Water Purged Before Sampling -ength of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 4.66 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) Casing Volume (LWC*C) = MW-8 Free Product Thickness Fotal Well Depth (TWD) Casing Volumes = 3 X Well Diameter (D) Well # Date/Time 35630-32 324976 11929 Sunny, Slight Breeze, Cool Conductivity Sensor: Received by Site ID# Ivan A. Irizarry 11.6 Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) 02/23/09 General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: NH = 10.0 serial no. pH = 7.0pH =4.0 0.7 = HqDate

Sample

Post

5th Vol.

4th Vol.

3rd Vol.

2nd Vol.

1st Vol.

Initial

1055

Clear

urbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C

Specific Conductivity

/olume Purged (gallons)

ime (military)

1.02

4.24 32.0

18.2

Well sampled at 10:55 on February 23, 2009.

Remarks:



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Sample feet(ft) gals gais gals *If free product is present over 1/8 inch, sampling will not be required. 30.70 1.69 0.56 3.31 Post (Standard Purge Volume) inch of 30.70 27.39 ₹ 5th Vol Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 3.31 0.56 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) Casing Volume (LWC*C) = Free Product Thickness 6-WM Fotal Well Depth (TWD) Casing Volumes = 3 X 3rd Vol. Well Diameter (D) Well # 2nd Vol. Date/Time 35630-32 1st Vol. 324976 11929 1215 Initial Sunny, Slight Breeze, Cool Received by Conductivity Sensor: Site ID# Ivan A. Irizarry Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) olume Purged (gallons) 02/23/09 General weather Conditions Relinquished by Facility Name: ime (military) Field Personnel pH Sensor: serial no. pH =4.0 pH = 7.0pH = 7.0

Remarks: Well sampled at 12:15 on February 23, 2009.

Cloudy

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

(n.s) Hd

4.68

18.9

5.64

6.35



18

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								-		
Date 02/23/09				Well #	MW-10					
Field Personnel	Ivan A. Irizarry									
General weather Conditions	Sunny, Slight Breeze, Cool	e, Cool	ı !	Well Diameter (D)	نا (٦)	7	inch of	30.10	30.10 feet(ft)	
Ambient Air Temperature (°C)	11.6			conversion fa	conversion factor (C): 3.143*(D/2)^2	3*(D/2)^2			: !	
			ı		for a 2 inch well C = 0.163	II C = 0.163				
Facility Name: Fmr Ryder Truck Terminal	rminal Site ID#		11929		for a 4 inch well C = 0.652	II C = 0.652				
				*Free Product Thickness	t Thickness			Ħ		
O	Quality Assurance			Total Well Depth (TWD)	pth (TWD)		30.10	ı#=		
	:		-	Depth to Gro	Depth to Groundwater (DGW)		27.02	,#≓ I		
pH Sensor: Oakton 35630-62	Conductivity Sensor:	ensor:	35630-32	Length of Wa	Length of Water Colum (LWC = TWD-DGW)	C = TWD-DG	(<u>%</u>	3.08	Ħ	
serial no. 324976	serial no.	32	324976	1 Casing Volume (LWC*C) =	e (LWC*C) =	3.08 × .17	X .17	0.52	gais	
pH =4.0	Standard			3 Casing Volumes = 3 X		0.52	,,	1.57	gals	
PH = 7.0	Standard			,	•	(Standard Purge Volume)	rge Volume)) 	
pH = 7.0	Standard)			
pH = 10.0	Standard									
5	Chain of Custody			Total Volume	Total Volume of Water Purged Before Sampling	ed Before Sar		VA V	sle6	
				*If free produc	*If free product is present over 1/8 inch, sampling wiil not be required.	er 1/8 inch, sa	ampling will no	ot be required.		
Relinquished by Da	Date/Time Received	ved by	Date/Time							
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)		0								

Remarks: Well sampled at 10:00 on February 23, 2009.

Cloudy 0.63

Turbidity (subjective: clear, slightly cloudy, cloudy) Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

Time (military)

(n·s) Hd

141.3 17.0

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)ate 02/23/09				Well #	MW-11					
ield Personnel	Ivan A. Irizarry			: : :		1				
Seneral weather Conditions	Sunny, Slight Breeze, Cool	Cool	1	Well Diameter (D)	iter (D)	8	inch of	34.00	foot/#)	
mbient Air Temperature (°C)	11.6		1	conversion	conversion factor (C): 3.143*(D/2)^2	143*(D/2)^2	1	8	(11)	
acility Name: Fmr Ryder Truck Terminal	Site ID#	11	11929		for a 2 inch for a 4 inch	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652				
Quality	Quality Assurance			*Free Produ	*Free Product Thickness Total Well Depth (TWD)		NA 31.00	≠ ‡		
H Sensor: Oakton 35630-62	Conductivity Sensor:	.sor:	35630-32	Depth to Gr	Depth to Groundwater (DGW)	3W) WC = TWn-py	1 1	; = == 	4	
erial no. 324976	serial no.		324976	1 Casing Volu	1 Casing Volume (LWC*C) =	2.13	×, ×	2,13	- L	
H =4.0	Standard			3 Casing Volumes = 3	mes = 3 ×	98.0	: " :		gals	
H=7.0 7.0				,		(Standard Pr	(Standard Purce Volume)		gais	
H = 7.0	Standard			T **						
H = 10.0	Standard			· ·						
Chain	Chain of Custody			Total Volum	Total Volume of Water Purged Before Sampling	ged Before Sa	mpling	NA	gals	
				*If free prod	*If free product is present over 1/8 inch. sampling will not be required	over 1/8 inch. s	sampling will r	of be required		
Relinquished by Date/Time	me Received	d by	Date/Time		-		D		•	
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol	Post	Sample	
olume Purged (gallons)		0							Odinple	
ime (military)		1020								
H (s.u)		4.23								
pecific Conductivity		14.07								

Remarks: Well sampled at 10:20 on February 23, 2009.

Cloudy

Turbidity (subjective: clear, slightly cloudy, cloudy) Dissolved Oxygen (mg/l)

Water Temperature (°C)

16.7



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Date	02/23/09				Well # MV	MW-12					
Field Personnel		lvan	Ivan A. Irizarry								
General weather Conditions	Conditions	Sunny, Sli	Sunny, Slight Breeze, Cool		Well Diameter (D)	CV	2 inch of	of 30.90	30 feet(ft)	(#)	
Ambient Air Temperature (°C	berature (°C)		11.6		conversion factor (C): 3.143*(D/2)^2	;): 3.143*(D/2)			1		
					for a 2	for a 2 inch well C = 0.163	.163				
Facility Name:	Fmr Ryder Truck Terminal	rminal	Site ID#	11929	for a 4	for a 4 inch well C = 0.652	.652				
					*Free Product Thickness	ness	NA	Ħ			
	G	Quality Assurance	Ģ		Total Well Depth (TWD)	VD)	30.90	#			
					Depth to Groundwater (DGW)	er (DGW)	Dry	≠			
pH Sensor:	Oakton 35630-62		Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	um (LWC = TW	D-DGW)	A V	#		
serial no.	324976	seria	serial no.	324976	1 Casing Volume (LWC*C) =	*C)= NA	71. X Y	AN N) gals		
pH =4.0	4.0	Stan	Standard		3 Casing Volumes = 3 X		"	Z			
pH = 7.0	7.0	Standard				•	(Standard Purge Volume)				
pH = 7.0		Standard	•			•)				
pH = 10.0		Standard	dard					-			
	U	Chain of Custody	*		Total Volume of Water Purged Before Sampling	er Purged Befo	re Sampling	NA	gals		
					* If free product is present over 1/8 inch, sampling will not be required.	sent over 1/8 ir	ich, sampling w	il not be requ	ired.		
Relinquished by		Date/Time	Received by	Date/Time							
			Initial	1st Vol.	2nd Vol. 3rd Vol.	I. 4th Vol.	5th Vol.	Post	Sar	Sample	
Volume Purged (gallons)	d (gallons)										
Time (military)											
pH (s.u)											
Specific Conductivity	uctivity										

Remarks: Well Dry.

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)



18

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4

Page

Date 02/23/09				Well #	MW-13					
Field Personnel	Ivan A. Irizarry									
General weather Conditions	Sunny, Slight Breeze,	Cool	ı	Well Diameter (D)	er (D)	2	inch of	33.20	feet(ff)	
Ambient Air Temperature (°C)	11.6			conversion f	conversion factor (C): 3.143*(D/2)^2	13*(D/2)^2			(1)	
Facility Name: Fmr Ryder Truck Terminal	Terminal Site ID#	·	11929	·	for a 2 inch v for a 4 inch v	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652				
	Quality Assurance			*Free Product Thickness Total Well Depth (TWD)	*Free Product Thickness Total Well Depth (TWD)		33.20	≠ ≠		
pH Sensor: Oakton 35630-62	3-62 Conductivity Ser	ensor:	35630-32	Depth to Gro	Depth to Groundwater (DGW) Length of Water Colum (LWC = TWD-DGW)	/V) /C = TWD-DG	1 1		, t	
serial no. 324976	serial no.		324976	1 Casing Volume (LWC*C) =	ne (LWC*C) =	5.39	 		<u>ء</u> ا	
pH =4.0	Standard			3 Casing Volumes = 3 X	nes=3 X	0.92		2.75	alego Special	
pH = 7.0	Standard)		(Standard Purge Volume)	rae Volume)	i		
pH = 7.0	Standard						/a			
pH = 10.0	Standard									
TO A COMMISSION OF THE PROPERTY OF THE PROPERT	Chain of Custody			Total Volume	Total Volume of Water Purged Before Sampling	ed Before Sar	npling	AA	gals	
				*If free produ	*If free product is present over 1/8 inch, sampling will not be required.	ver 1/8 inch, sa	mplina wiil no	of be required		
Relinquished by	Date/Time Received by	ed by	Date/Time					F		
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)		0								
Time (military)		1240								T
pH (s.u)		5.69								T
Specific Conductivity		159.7								
Water Temperature (°C)		19.4								1

Well sampled at 12:40 on February 23, 2009. A sheen of free-phase product was noted during sampling. Remarks:

Clear 19.4

Turbidity (subjective: clear, slightly cloudy, cloudy) Dissolved Oxygen (mg/l)

1.4



2

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15

feet(ft) gals gals 'If free product is present over 1/8 inch, sampling will not be required. 32.00 2.28 4.48 9.76 (Standard Purge Volume) inch of 32.00 ž Fotal Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163for a 4 inch well C = 0.652 4.48 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) I Casing Volume (LWC*C) = Free Product Thickness otal Well Depth (TWD) 3 Casing Volumes = 3 X Well Diameter (D) Well # Date/Time 35630-32 324976 11929 Sunny, Slight Breeze, Cool Received by Conductivity Sensor: Site ID# Ivan A. Irizarry 11.6 Standard Standard serial no. Standard Standard Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: pH = 7.0pH =4.0 serial no.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	0							
Time (military)	1305							
pH (s.u)	5.52							
Specific Conductivity	81.7							
Water Temperature (°C)	79.4							
; slightly cloudy, cloudy)	Sli. Cloudy							
Dissolved Oxygen (mg/l)	0.81							

Remarks: Well sampled at 13:05 on February 23, 2009.



18

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16

Page

Date	02/23/09				Well #	MW-15				-	
Field Personnel		Ivan A. Irizarry	>								
General weather Conditions	Conditions	Sunny, Slight Breeze,	te, Cool	1	Well Diameter (D)	(<u>0</u>)	7	inch of	33.50	feet(ft)	
Ambient Air Temperature (°C)	perature (°C)	11.6		1 1	conversion factor (C): 3.143*(D/2)^2	stor (C): 3.14	3*(D/2)^2	ī			
:	 - - -			1	,	for a 2 inch well C = 0.163	ell C = 0.163				
Facility Name:	Fmr Ryder Truck Terminal	rminal Site ID#		11929		for a 4 inch well C = 0.652	eq C = 0.652				
					*Free Product Thickness	Thickness		0.13	, #		
	a	Quality Assurance			Total Well Depth (TWD)	oth (TWD)		33.50	.#		
					Depth to Grou	Depth to Groundwater (DGW)	<u>~</u>	27.91	, ≠ ,		
pH Sensor:	Oakton 35630-62	Conductivity Sensor:	Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	er Colum (LW	C = TWD-DG	(M	5.59	¥	
serial no.	324976	serial no.		324976	1 Casing Volume (LWC*C) =	= (LWC*C) =	5.59	. ×	0.95	- gals	
pH =4.0	4.0	Standard			3 Casing Volumes = 3 X	. x = 3 ×	0.95	11	2.85	gals	
DH = 7.0	7.0	Standard				•	(Standard Purge Volume)	rge Volume)		ì	
pH = 7.0		Standard						·			
pH = 10.0		Standard									
	O)	Chain of Custody			Total Volume of Water Purged Before Sampling	of Water Purg	ed Before Sar	nolina	¥ Z	gals	
						•					
					*If free product is present over 1/8 inch, sampling will not be required.	t is present ov	er 1/8 inch, sa	ampling wiil no	t be required		
Relinqui	Relinquished by Da	Date/Time Rece	Received by	Date/Time				•			
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)	ed (gallons)										
Time (military)											Ţ
pH (s.u)	-										1
Specific Conductivity	uctivity										1
Water Temperature (rature(°C)										

Remarks: Well not sampled due to 0.13 feet of free product present.

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)



48

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16

Sample feet(ft) gals gals gals "If free product is present over 1/8 inch, sampling will not be required. 34.40 3.32 6.50 3.5 Post (Standard Purge Volume) inch of 34.40 27.9 ₹ 5th Vol. Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 6.50 conversion factor (C): 3.143*(D/2)^2 4th Vol. Depth to Groundwater (DGW) | Casing Volume (LWC*C) = MW-16 Free Product Thickness Total Well Depth (TWD) Casing Volumes = 3 X 3.5 3rd Vol. Well Diameter (D) 2.0 Well # 2nd Vol. Date/Time 35630-32 1st Vol. 324976 11929 Initial Received by Sunny, Slight Breeze, Cool Conductivity Sensor: Site ID# Ivan A. Irizarry 11.6 Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Date/Time Fmr Ryder Truck Terminal Oakton 35630-62 324976 4.0 7.0 Ambient Air Temperature (°C) olume Purged (gallons) 02/23/09 General weather Conditions Relinquished by Facility Name: Field Personnel pH Sensor: pH = 10.0pH = 7.0serial no. pH = 7.0pH =4.0

Remarks:	Well sampled at 14:30 on February 23. 2009.
	Remarks:

67.00

69.20

76.51

82.10 19.9 Clear 0.83

20.2

20.3 Clear

Clear

19.3 Clear

urbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Nater Temperature (°C

Specific Conductivity

ime (military)

(n.s) Ho

1430

1425 5.10

1420

1415

5.31

5.77

5.08



18

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Page

Date 02/23/09			Well # MW-17	-17				
Field Personnel	Ivan A. Irizarry							
General weather Conditions	Sunny, Slight Breeze, Cool		Well Diameter (D)	2	inch of	35.00	feet(ft)	
Ambient Air Temperature (°C)	11.6	İ	conversion factor (C): 3.143*(D/2)^2): 3.143*(D/2)^2	1	1		
			for a 2	for a 2 inch well C = 0.163				
Facility Name: Fmr Ryder Truck Terminal	Site ID#	11929	for a 4	for a 4 inch well C = 0.652				
		-	*Free Product Thickness	ess	0.79	#.		
Quality Assurance	ssurance	-	Total Well Depth (TWD)	(Q)	35.00	_ ⊭		
			Depth to Groundwater (DGW)	r (DGW)	29.31	.≠		
pH Sensor: Oakton 35630-62	Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	m (LWC = TWD-D(5.69	Ħ	
serial no. 324976	serial no.	324976	1 Casing Volume (LWC*C) =	c) = 5.69	X .17	0.97	gals	
pH =4.0	Standard		3 Casing Volumes = 3 X		" I	2.90	gals	
pH = 7.0	Standard			•	(Standard Purge Volume)			
pH = 7.0	Standard			•				
pH = 10.0	Standard	S.						
Chain of Custody	-		Total Volume of Water Purged Before Sampling	ar Purged Before Sa	ampling	NA	gals	
			*If free product is present over 1/8 inch sampling will be required	sent over 1/8 inch	od lijva poljudes	t he required		
Relinquished by Date/Time	Received by	Date/Time			D			
	Initial	1st Vol.	2nd Vol. 3rd Vol	. 4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)								
Time (military)								
(n·s) Hd								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)	dy, cloudy)							
Dissolved Oxygen (mg/l)								

Remarks: Well not sampled due to 0.79 feet of free product present.



18

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Date 02/23/09				Well #	MW-18					
Field Personnel	Ivan A. Irizarry	>								-
General weather Conditions	Sunny, Slight Breeze, Cool	e, Cool	I	Well Diameter (D)	er (D)	7	inch of	35.60	feet(ft)	
Ambient Air Temperature (°C)	11.6			conversion fa	conversion factor (C): 3.143*(D/2)^2	3*(D/2)^2			()	
	-				for a 2 inch well C = 0.163	ell C = 0.163				•
Facility Name: Fmr Ryder Truck Terminal	rminal Site ID#	#	11929		for a 4 inch well C = 0.652	ell C = 0.652				
•				*Free Product Thickness	x Thickness		0.45	≠ .		
Ő	Quality Assurance			Total Well Depth (TWD)	epth (TWD)		35.60	ff		
				Depth to Gro	Depth to Groundwater (DGW)	ŝ	29.21	. ≠		
pH Sensor: Oakton 35630-62	2 Conductivity Sensor:	Sensor:	35630-32	Length of Wa	Length of Water Colum (LWC = TWD-DGW)	C = TWD-DG	1	6:39	Ħ	
serial no. 324976	serial no.		324976	1 Casing Volur	Casing Volume (LWC*C) =	6.39	× 17.	1.09	- cals	
pH =4.0	Standard			3 Casing Volumes = 3	ies=3 X	1.09	н	3.26	l siep	
pH = 7.0	Standard)		(Standard Purge Volume)	rge Volume)			
pH = 7.0	Standard					•	`			
pH = 10.0	Standard									
OI .	Chain of Custody			Total Volume	Total Volume of Water Purged Before Sampling	ed Before Sar	bullug	ΨN	gals	
				*If free produ	*If free product is present over 1/8 inch, sampling will not be required.	er 1/8 inch, sa	ampling will not	be required		
Relinquished by Dat	Date/Time Received	ived by	Date/Time		-) _			
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)										
Time (military)										1
pH (s.u)										
Specific Conductivity										
Water Temperature (°C)										1
Turbidity (subjective: clear, slightly cloudy, cloudy)	tly cloudy, cloudy)									
Dissolved Oxygen (mg/l)										

Remarks: Well not sampled due to 0.45 feet of free product present.

APPENDIX D

LABORATORY ANALYTICAL DATA



Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

March 10, 2009

Mr. Trevor Benton Bunnell-Lammons Engineering 6004 Ponders Court Greenville, SC 29615

RE: Project: FORMER RYDER TRUCK 508-1010-13

Pace Project No.: 9238596

Dear Mr. Benton:

Enclosed are the analytical results for sample(s) received by the laboratory on February 24, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

Ar Doch

kevin.godwin@pacelabs.com Project Manager

Enclosures





Pace Analytical Services, Inc.

2225 Riverside Dr. Asheville, NC 28804

(828)254-7176

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100

Huntersville, NC 28078

(704)875-9092

CERTIFICATIONS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

Charlotte Certification IDs

West Virginia Certification #: 357 Virginia Certification #: 00213 Tennessee Certification #: 04010

South Carolina Drinking Water Cert. #: 990060003

South Carolina Certification #: 990060001 Pennsylvania Certification #: 68-00784

Connecticut Certification #: PH-0104

Asheville Certification IDs

West Virginia Certification #: 356 Virginia Čertification #: 00072

Connecticut Certification #: PH-0106 Florida/NELAP Certification #: E87648

Tennessee Certification #: 2980

South Carolina Certification #: 99030001

South Carolina Bioassay Certification #: 99030002

Pennsylvania Certification #: 68-03578

Florida/NELAP Certification #: E87627

New Jersey Certification #: NC012 Louisiana/LELAP Certification #: 04034

Kentucky UST Certification #: 84

North Carolina Wastewater Certification #: 40

North Carolina Wastewater Certification #: 12

North Carolina Field Services Certification #: 5342 North Carolina Drinking Water Certification #: 37706

North Carolina Drinking Water Certification #: 37712 North Carolina Bioassay Certification #: 9

New Jersey Certification #: NC011

Massachusetts Certification #: M-NC030

Louisiana/LELAP Certification #: 03095

Eden Certification IDs

North Carolina Wastewater Certification #: 633 Virginia Drinking Water Certification #: 00424

North Carolina Drinking Water Certification #: 37738





Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

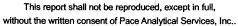
9238596

Sample: MW-1	Lab ID: 9238	8596001	Collected: 02/23/	09 11:30	Received: 02	2/24/09 09:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Meth	od: EPA 80	011 Preparation Met	hod: EPA	A 8011			
1,2-Dibromoethane (EDB)	0.028 ug/	/L	0.020	1	03/03/09 14:56	03/07/09 03:38	3 106-93-4	
1-Chloro-2-bromopropane (S)	72 %		60-140	1	03/03/09 14:56	03/07/09 03:38	301-79-56	
6010 MET ICP	Analytical Meth	od: EPA 60	010 Preparation Met	thod: EP/	A 3010			
Arsenic	ND ug/	/L	5.0	1	02/25/09 16:15	02/26/09 19:44	4 7440-38-2	
Barium	227 ug/	/L	5.0	1	02/25/09 16:15	02/26/09 19:44	7440-39-3	
Cadmium	ND ug/	/L	1.0	1	02/25/09 16:15	02/26/09 19:44	7440-43-9	
Chromium	11.3 ug/	/L	5.0	1	02/25/09 16:15	02/26/09 19:44	1 7440-47-3	
Lead	9.6 ug/		5.0	1	02/25/09 16:15			
Selenium	ND ug/		10.0	1	02/25/09 16:15			
Silver	ND ug/		5.0	1	02/25/09 16:15			
7470 Mercury	Ţ.		470 Preparation Met	hod: EP/				
Mercury	ND ug/		0.20	1	02/26/09 15:50	02/27/09 16:05	7439-97-6	
8260 MSV Low Level	Analytical Meth	od: EPA 82	260					
Benzene	ND ug/	/L	1.0	1		03/01/09 16:25	5 71-43-2	
Ethylbenzene	ND ug/		1.0	1		03/01/09 16:25		
Methyl-tert-butyl ether	ND ug/		1.0	1		03/01/09 16:25		
Naphthalene	ND ug/		1.0	1		03/01/09 16:25		
Toluene	-							
	ND ug/		1.0	1		03/01/09 16:25		
m&p-Xylene	ND ug/		2.0	1		03/01/09 16:25		
o-Xylene	ND ug/	L	1.0	1		03/01/09 16:25		
4-Bromofluorobenzene (S)	98 %		87-109	1		03/01/09 16:25		
Dibromofluoromethane (S)	108 %		85-115	1		03/01/09 16:25		
1,2-Dichloroethane-d4 (S)	108 %		79-120	1		03/01/09 16:25	5 17060-07-0	
Toluene-d8 (S)	101 %		70-120	1		03/01/09 16:25	5 2037-26-5	
Sample: MW-2D	Lab ID: 9238	3596002	Collected: 02/23/0	09 13:50	Received: 02	/24/09 09:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Meth	od: EPA 80	D11 Preparation Met	hod: EP/	· · · · · · · · · · · · · · · · · · ·			
	•		•					
1,2-Dibromoethane (EDB)	ND ug/	L	0.019	1	03/03/09 15:06			
1-Chloro-2-bromopropane (S)	104 %		60-140	1	03/03/09 15:06	03/07/09 10:47	301-79-56	
6010 MET ICP	Analytical Meth	od: EPA 60	010 Preparation Met	hod: EPA	A 3010			
Arsenic	ND ug/	'L	5.0	1	02/25/09 16:15	02/26/09 19:48	7440-38-2	
Barium	70.5 ug/	'L	5.0	1	02/25/09 16:15	02/26/09 19:48	7440-39-3	
Cadmium	ND ug/	Ľ	1.0	1	02/25/09 16:15	02/26/09 19:48	3 7440-43-9	
Chromium	ND ug/	'L	5.0	1	02/25/09 16:15	02/26/09 19:48	3 7440-47-3	
_ead	ND ug/	'L	5.0	1	02/25/09 16:15			
Selenium	ND ug/		10.0	1	02/25/09 16:15			
Silver	ND ug/		5.0	1	02/25/09 16:15			

Date: 03/10/2009 05:26 PM

REPORT OF LABORATORY ANALYSIS

Page 3 of 20







2225 Riverside Dr. Asheville, NC 28804

(828)254-7176

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

Sample: MW-2D	Lab ID: 9238596	002 Collected: 02/2	3/09 13:5	Received: 02	2/24/09 09:30 N	Matrix: Water		
Parameters	Results	Units Report Limi	DF	Prepared	Analyzed	CAS No.	Qua	
7470 Mercury	Analytical Method:	EPA 7470 Preparation M	ethod: EF	PA 7470				
Mercury	ND ug/L	0.2) 1	02/26/09 15:50	02/27/09 16:08	7439-97-6		
8260 MSV Low Level	Analytical Method:	EPA 8260						
Benzene	1.1 ug/L	1.	0 1		03/01/09 16:48	71-43-2		
Ethylbenzene	ND ug/L	1.) 1		03/01/09 16:48	100-41-4		
Methyl-tert-butyl ether	ND ug/L	1.) 1		03/01/09 16:48	1634-04-4		
Naphthalene	ND ug/L	· 1.) 1		03/01/09 16:48	91-20-3		
Toluene	ND ug/L	1.) 1		03/01/09 16:48			
m&p-Xylene	ND ug/L	2.			03/01/09 16:48			
o-Xylene	ND ug/L	1.			03/01/09 16:48			
4-Bromofluorobenzene (S)	98 %	87-10			03/01/09 16:48			
Dibromofluoromethane (S)	107 %	85-11			03/01/09 16:48			
1,2-Dichloroethane-d4 (S)	109 %	79-12			03/01/09 16:48			
Toluene-d8 (S)	102 %	79-12 70-12			03/01/09 16:48			
	.02 /0	70-12	, '		03/01/09 10.40	2037-20-3		
Sample: MW-5	Lab ID: 9238596	003 Collected: 02/2	3/09 12:00	Received: 02	2/24/09 09:30 M	latrix: Water	-	
Parameters	Results (Jnits Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	
8011 GCS EDB and DBCP	Analytical Method: I	EPA 8011 Preparation M	ethod: EP	A 8011				
1,2-Dibromoethane (EDB)	ND ug/L	0.019) 1	03/03/09 15:06	03/07/09 11:33	106-93-4		
1-Chloro-2-bromopropane (S)	95 %	60-14			03/07/09 11:33			
6010 MET ICP	Analytical Method: 8	EPA 6010 Preparation M	ethod: EP	A 3010				
Arsenic								
	ND ua/l	5.1	. 1	02/25/00 16:15	02/26/00 40:54	7440 20 2		
Barium	ND ug/L	5.0			02/26/09 19:51			
	38.9 ug/L	5.0) 1	02/25/09 16:15	02/26/09 19:51	7440-39-3		
Cadmium -	38.9 ug/L ND ug/L	5.0 1.0	1 1	02/25/09 16:15 02/25/09 16:15	02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9		
Cadmium Chromium	38.9 ug/L ND ug/L 12.7 ug/L	5.0 1.0 5.0) 1) 1 ! 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3		
Cadmium Chromium Lead	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L	5.0 1.0 5.0 5.0	1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1		
Cadmium Chromium Lead Selenium	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L	5.0 1.0 5.0 5.0 10.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2		
Cadmium Chromium Lead Selenium Silver	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L	5.0 1.0 5.0 5.0 10.0 5.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2		
Barium Cadmium Chromium Lead Selenium Silver 7470 Mercury	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L	5.0 1.0 5.0 5.0 10.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L	5.0 1.0 5.0 5.0 10.0 5.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury 1260 MSV Low Level	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L Analytical Method: E	5.0 1.0 5.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury 1260 MSV Low Level Senzene	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E	5.0 1.0 5.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury 1260 MSV Low Level Senzene Ethylbenzene	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E Analytical Method: E	5.0 1.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury Senzene Ethylbenzene Methyl-tert-butyl ether	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E	5.0 1.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20 EPA 8260	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/27/09 16:10	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6 71-43-2 100-41-4		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury Senzene Ethylbenzene Methyl-tert-butyl ether	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E 1.0 ug/L 2.8 ug/L	5.0 1.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20 EPA 8260	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/27/09 16:10 03/03/09 17:24 03/03/09 17:24	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury Senzene Ethylbenzene Methyl-tert-butyl ether Mandana Senzene Mandana Senzene Methyl-tert-butyl ether Mandana Senzene Mathyl-tert-butyl ether Mandana Senzene Mathyl-tert-butyl ether Mandana Senzene	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E 1.0 ug/L 2.8 ug/L ND ug/L	5.0 1.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20 EPA 8260 1.0 1.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/27/09 16:10 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3		
Cadmium Chromium Lead Selenium Silver 470 Mercury Mercury Le60 MSV Low Level Benzene Ethylbenzene Methyl-tert-butyl ether Laphthalene Oluene	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E 1.0 ug/L 2.8 ug/L ND ug/L 9.7 ug/L	5.0 1.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20 EPA 8260 1.0 1.0 1.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/27/09 16:10 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury Le60 MSV Low Level Benzene Ethylbenzene Methyl-tert-butyl ether Japhthalene oluene n&p-Xylene	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E 1.0 ug/L 2.8 ug/L ND ug/L 9.7 ug/L 5.9 ug/L	5.0 1.0 5.0 10.0 5.0 5.0 EPA 7470 Preparation M 0.20 EPA 8260 1.0 1.0 1.0 1.0 2.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/27/09 16:10 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 1330-20-7		
Cadmium Chromium Lead Selenium Silver '470 Mercury Mercury 1260 MSV Low Level Senzene	38.9 ug/L ND ug/L 12.7 ug/L 10.6 ug/L ND ug/L ND ug/L ND ug/L Analytical Method: E ND ug/L Analytical Method: E 1.0 ug/L 2.8 ug/L ND ug/L 9.7 ug/L 5.9 ug/L 5.5 ug/L	5.0 1.0 5.0 10.0 5.0 EPA 7470 Preparation M 0.20 EPA 8260 1.0 1.0 1.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 02/25/09 16:15 A 7470	02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/26/09 19:51 02/27/09 16:10 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24 03/03/09 17:24	7440-39-3 7440-43-9 7440-47-3 7439-92-1 7782-49-2 7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 1330-20-7 95-47-6		

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2225 Riverside Dr. Asheville, NC 28804

(828)254-7176

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078

(704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

Sample: MW-5	Lab ID: 923859	96003	Collected: 02/23/0	09 12:00	Received: 0	2/24/09 09:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV Low Level	Analytical Method	: EPA 82	60			•		
1,2-Dichloroethane-d4 (S)	108 %		79-120	1		03/03/09 17:24	17060-07-0	
Toluene-d8 (S)	99 %		70-120	1		03/03/09 17:24		
Sample: MW-7	Lab ID: 923859	6004	Collected: 02/23/0	09 10:35	Received: 0	2/24/09 09:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Method	: EPA 80	11 Preparation Meth	nod: EPA	8011			
1,2-Dibromoethane (EDB)	0.23 ug/L		0.019	1	03/03/09 15:06	03/07/09 12:03	106-93-4	
1-Chloro-2-bromopropane (S)	98 %		60-140	1		6 03/07/09 12:03		
6010 MET ICP	Analytical Method	: EPA 60	10 Preparation Met	nod: EPA	3010			
Arsenic	ND ug/L		5.0	1	02/25/09 16:15	02/26/09 19:55	7440-38-2	
3arium	204 ug/L		5.0	1		02/26/09 19:55		
Cadmium	ND ug/L		1.0	1	02/25/09 16:15	02/26/09 19:55	7440-43-9	
Chromium	39.6 ug/L		5.0	1	02/25/09 16:15	02/26/09 19:55	7440-47-3	
_ead	23.1 ug/L		5.0	1	02/25/09 16:15	02/26/09 19:55	7439-92-1	
Selenium	ND ug/L		10.0	1		02/26/09 19:55		
Silver	ND ug/L		5.0	1		02/26/09 19:55		
7470 Mercury	Analytical Method	: EPA 74	70 Preparation Meth	nod: EPA	7470			
Mercury	0.35 ug/L		0.20	1	02/26/09 15:50	02/27/09 16:13	7439-97-6	
3260 MSV Low Level	Analytical Method:	: EPA 82	60					
Benzene Benzene	34.0 ug/L		1.0	1		03/01/09 17:36	71-43-2	
Ethylbenzene	ND ug/L		1.0	1		03/01/09 17:36	100-41-4	
Methyl-tert-butyl ether	2.8 ug/L		1.0	1		03/01/09 17:36	1634-04-4	
Naphthalene	89.9 ug/L		1.0	1		03/01/09 17:36	91-20-3	
Toluene Toluene	ND ug/L		1.0	1		03/01/09 17:36	108-88-3	
n&p-Xylene	10.8 ug/L		2.0	1		03/01/09 17:36		
o-Xylene	29.8 ug/L		1.0	1		03/01/09 17:36		
I-Bromofluorobenzene (S)	102 %		87-109	1		03/01/09 17:36		
Dibromofluoromethane (S)	102 %		85-115	1		03/01/09 17:36		
I,2-Dichloroethane-d4 (S)	102 %		79-120	1		03/01/09 17:36		
Foluene-d8 (S)	99 %		70-120	1		03/01/09 17:36		
Sample: MW-8	Lab ID: 923859	6005	Collected: 02/23/0	9 10:55	Received: 02	2/24/09 09:30 N	latrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method:	EPA 80	11 Preparation Meth	od: EPA	8011			
,2-Dibromoethane (EDB)	ND ug/L		0.019	1	03/03/09 15:06	03/07/09 12:18	106-93-4	
I-Chloro-2-bromopropane (S)	99 %		60-140	1	03/03/09 15:06	03/07/09 12:18	301-79-56	

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Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804

(828)254-7176

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.: 9238596

Sample: MW-8	Lab ID: 9	238596005	Collected: 02/23/	09 10:55	Received: 02	2/24/09 09:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
6010 MET ICP	Analytical M	lethod: EPA 60	010 Preparation Me	thod: EPA	\ 3010		•	
Arsenic	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:5	9 7440-38-2	
Barium	56.4	ug/L	5.0	1	02/25/09 16:15			
Cadmium	ND	ug/L	1.0	1	02/25/09 16:15			
Chromium	5.8	ug/L	5.0	1	02/25/09 16:15			
Lead:	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:5	9 7439-92-1	
Selenium	ND	ug/L	10.0	1	02/25/09 16:15	02/26/09 19:5	9 7782-49-2	
Silver	ND	ug/L	5.0	1	02/25/09 16:15	02/26/09 19:5	9 7440-22-4	
7470 Mercury	Analytical M	lethod: EPA 74	70 Preparation Me	thod: EPA	7470			
Mercury	0.47	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:2	1 7439-97-6	
8260 MSV Low Level	Analytical M	lethod: EPA 82	:60					
Benzene	ND	ug/L	1.0	1		03/03/09 17:4	8 71-43-2	
Ethylbenzene		ug/L	1.0	1		03/03/09 17:4		
Methyl-tert-butyl ether		ug/L	1.0	1		03/03/09 17:4		
Naphthalene	ND	ug/L	1.0	1		03/03/09 17:4		
Toluene		ug/L	1.0	1		03/03/09 17:4		
m&p-Xylene		ug/L	2.0	1		03/03/09 17:4		
o-Xylene		ug/L	1.0	1		03/03/09 17:4		
4-Bromofluorobenzene (S)	99	-	87-109	1		03/03/09 17:4		
Dibromofluoromethane (S)	104		85-115	1		03/03/09 17:48		
1,2-Dichloroethane-d4 (S)	106		79-120	1		03/03/09 17:48		
Toluene-d8 (S)	100		70-120	1		03/03/09 17:48		
Sample: MW-9	Lab ID: 9	238596006	Collected: 02/23/	09 12:15	Received: 02	/24/09 09:30	Matrix: Water	
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical M	ethod: EPA 80	11 Preparation Met	hod: EPA	8011			
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	1	03/03/09 15:07	03/07/09 12:33	3 106-93-4	
1-Chloro-2-bromopropane (S)	94	•	60-140	1	03/03/09 15:07			
6010 MET ICP	Analytical M	ethod: EPA 60	10 Preparation Met	hod: EPA	3010			
Arsenic	114	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	1 7440-38-2	
Barium	5410	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	7440-39-3	
Cadmium	55.0	ug/L	5.0	5	02/25/09 16:15	02/27/09 12:34	1 7440-43-9	
Chromium	1720	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	1 7440-47-3	
_ead	1010	ug/L	25.0	5	02/25/09 16:15			
Selenium	64.0	ug/L	50.0	5	02/25/09 16:15			
Silver	ND	ug/L	25.0	5	02/25/09 16:15	02/27/09 12:34	1 7440-22-4	
7470 Mercury	Analytical M	ethod: EPA 74	70 Preparation Met	hod; EPA	7470			
Mercury	1.2	ug/L	0.20	1	03/02/09 15:45	03/03/09 11:29	7439-97-6	

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Pace Analytical Services, Inc. 2225 Riverside Dr.

Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.: 9238596

Sample: MW-9	Lab ID: 923859600	6 Collected: 02/23/	09 12:15	Received:	02/24/09 09:30	Matrix: Water	
Parameters	Results Uni	s Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV Low Level	Analytical Method: EP	A 8260					-
Benzene	ND ug/L	1.0	1		03/01/09 18:2	3 71-43-2	
Ethylbenzene	ND ug/L	1.0	1		03/01/09 18:2		
Methyl-tert-butyl ether	ND ug/L	1.0	1		03/01/09 18:2		
Naphthalene	ND ug/L	1.0	1		03/01/09 18:2		
Toluene	ND ug/L	1.0	1		03/01/09 18:2		
m&p-Xylene	ND ug/L	2.0	1		03/01/09 18:2		
o-Xylene	ND ug/L	1,0	1		03/01/09 18:2		
4-Bromofluorobenzene (S)	97 %	87-109	1		03/01/09 18:2		
Dibromofluoromethane (S)	107 %	85-115	1		03/01/09 18:2		
1,2-Dichloroethane-d4 (S)	109 %	79-120	1			3 17060-07-0	
Toluene-d8 (S)	101 %	79-120	1				
	101 /4	70-120	'		03/01/09 18:2	3 2031-20-5	
Sample: MW-10	Lab ID: 9238596007	Collected: 02/23/0	09 10:00	Received: (02/24/09 09:30	Matrix: Water	
Parameters	Results Unit	s Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA	8011 Preparation Met	nod: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.019	1	03/03/09 15:0	7 03/07/09 12:4	8 106-03-4	
I-Chloro-2-bromopropane (S)	99 %	60-140	1		7 03/07/09 12:4		
6010 MET ICP	Analytical Method: EPA	6010 Preparation Met	hod: EPA				
Arsenic	14.8 ug/L	5.0	1	02/25/00 16:1	5 02/26/09 20:1 ⁻	1 7440 29 2	
Barium	928 ug/L	5.0	1		5 02/26/09 20:1 ⁻		
Cadmium	30.2 ug/L	1.0			5 02/26/09 20:1 ⁻ 5 02/26/09 20:1 ⁻		
Chromium	474 ug/L	5.0			5 02/26/09 20:1		
.ead	328 ug/L	5.0			5 02/26/09 20:1° 5 02/26/09 20:1°		
Selenium	25.3 ug/L	10.0	1 .				
Silver	ND ug/L	5.0			5 02/26/09 20:11		
	-		1		5 02/26/09 20:11	1 7440-22-4	
470 Mercury	Analytical Method: EPA	7470 Preparation Meth	nod: EPA	7470			
Mercury	1.5 ug/L	0.20	1	03/02/09 15:45	5 03/03/09 11:31	7439-97-6	
260 MSV Low Level	Analytical Method: EPA	8260					
Senzene	ND ug/L	1.0	1		03/01/09 18:47	71-43-2	
Ethylbenzene	ND ug/L	1.0	1		03/01/09 18:47	7 100-41-4	
fethyl-tert-butyl ether	ND ug/L	1.0	1		03/01/09 18:47	1634-04-4	
laphthalene	ND ug/L	1.0	1		03/01/09 18:47	91-20-3	
oluene	ND ug/L	1.0	1		03/01/09 18:47		
n&p-Xylene	ND ug/L	2.0	1		03/01/09 18:47		
-Xylene	ND ug/L	1.0	1		03/01/09 18:47		
-Bromofluorobenzene (S)	98 %	87-109	1		03/01/09 18:47		
		J. 100	•		23/01/00 10.41	.50 00-4	
	103 %	85-115	1		03/01/00 18:47	1868-52-7	
pibromofluoromethane (S) ,2-Dichloroethane-d4 (S)	103 % 103 %	85-115 79-120	1 1		03/01/09 18:47 03/01/09 18:47		

Date: 03/10/2009 05:26 PM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804

(828)254-7176

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.: 9238596

Parameters	Results			1					
		Units	Report l	Limit	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Me	thod: EPA 8	011 Preparatio	on Meth	nod: EPA	8011			
1,2-Dibromoethane (EDB)	ND u	ıg/L	(0.023	1	03/03/09 15:07	7 03/07/09 13:04	1 106-93-4	
1-Chloro-2-bromopropane (S)	95 %	-		0-140	1		7 03/07/09 13:04		
6010 MET ICP	Analytical Me	thod: EPA 60	010 Preparatio	n Meth	nod: EPA				
Arsenic	6.4 u			5.0	1		00/07/00 05 0	7440.00.0	
Barium	3040 u	•		5.0	1		02/27/09 05:21		MO
Cadmium	137 u	-		1.0	1		02/27/09 05:21		MO
Chromium	827 u			5.0			02/27/09 05:21		MO
_ead	1180 u				1		02/27/09 05:21		МО
Selenium	39.4 u	_		5.0			02/27/09 05:21		MO
Silver	ND u			10.0			02/27/09 05:21		M0
				5.0	1		02/27/09 05:21	7440-22-4	MO
470 Mercury	Analytical Me	thod: EPA 74	170 Preparatio	n Meth	od: EPA	7470			
Mercury	2.7 ս	g/L		0.20	1	03/02/09 15:45	03/03/09 11:34	7439-97-6	
3260 MSV Low Level	Analytical Me	thod: EPA 82	260						
Benzene	ND u	a/L		1.0	1		03/01/09 19:11	71_/2_2	
Ethylbenzene	ND u	~		1.0	1		03/01/09 19:11		
Methyl-tert-butyl ether	ND u	-		1.0	1		03/01/09 19:11		
laphthalene	ND u			1.0	1				
oluene	ND u	-		1.0	1		03/01/09 19:11		
n&p-Xylene	ND us	-		2.0	1		03/01/09 19:11		
-Xylene	ND u	•		1.0	1		03/01/09 19:11		
-Bromofluorobenzene (S)	97 %	_	97	-109			03/01/09 19:11		
Dibromofluoromethane (S)	108 %				1		03/01/09 19:11		
,2-Dichloroethane-d4 (S)	109 %			-115	1		03/01/09 19:11		
oluene-d8 (S)				-120	1		03/01/09 19:11		
0.00.10 00 (0)	101 %		70-	-120	1		03/01/09 19:11	2037-26-5	
Sample: MW-13	Lab ID: 923	9506000	Collected: 02	0/00/05					
			Collected: 0.	2/23/08	9 12:40	Received: 02	2/24/09 09:30 N	/latrix: Water	
Parameters	Results	Units	Report Li	imit _	DF	Prepared	Analyzed	CAS No.	Qual
011 GCS EDB and DBCP	Analytical Met	hod: EPA 80	11 Preparation	n Metho	od: EPA	8011			
,2-Dibromoethane (EDB)	0.18 ug	ı/L	0.	.019	1 (03/03/09 15:07	03/07/09 13:19	106-93-4	
-Chloro-2-bromopropane (S)	101 %			-140			03/07/09 13:19		
010 MET ICP	Analytical Meti	hod: EPA 60	10 Preparation	n Metho	od: EPA	3010			
rsenic	ND ug	ı/L		5.0	1 (02/25/09 16:15	02/27/09 05:42	7440-38-2	
arium	52.9 ug			5.0			02/27/09 05:42		
admium	ND ug	/L		1.0			02/27/09 05:42		
hromium	ND ug			5.0			02/27/09 05:42		
ead	ND ug			5.0			02/27/09 05:42		
elenium	ND ug		1	10.0			02/27/09 05:42		
ilver	ND ug		."	5.0			02/27/09 05:42		
	, to ug	-		J. V	, (JZJZJIUB 10:15	02/21/09 05:42	1440-22-4	

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REPORT OF LABORATORY ANALYSIS

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2225 Riverside Dr. Asheville, NC 28804 (828)254-7176

9800 Kincey Ave. Suite 100 Huntersville, NC 28078

Pace Analytical Services, Inc.

(704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

Sample: MW-13	Lab ID: 9238596009	Collected: 02/23/	09 12:40	Received: 0	2/24/09 09:30	Matrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qua
7470 Mercury	Analytical Method: EPA	7470 Preparation Met	hod: EPA	7470			
Mercury	0.82 ug/L	0.20	1	03/02/09 15:45	03/03/09 11:36	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA	3260					
Benzene	23.5 ug/L	1.0	1		03/03/09 18:1	1 71-43-2	
Ethylbenzene	ND ug/L	1.0	1		03/03/09 18:1		
Methyl-tert-butyl ether	ND ug/L	1.0	1		03/03/09 18:11		
Naphthalene	68.1 ug/L	1.0	1		03/03/09 18:11		
Toluene	ND ug/L	1.0	1		03/03/09 18:11		
m&p-Xylene	2.2 ug/L	2.0	1				
o-Xylene	44.0 ug/L	1.0	1		03/03/09 18:11		
4-Bromofluorobenzene (S)	105 %	87-109	•		03/03/09 18:11		
Dibromofluoromethane (S)	102 %		1		03/03/09 18:11		
1,2-Dichloroethane-d4 (S)	102 %	85-115	1		03/03/09 18:11		
Toluene-d8 (S)		79-120	1		03/03/09 18:11		
Tordene-do (O)	93 %	70-120	1		03/03/09 18:11	2037-26-5	
Sample: MW-14	Lab ID: 9238596010	Collected: 02/23/0	9 13:05	Received: 02	2/24/09 09:30	Matrix: Water	 .
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8	011 Preparation Metr	nod: EPA				
1,2-Dibromoethane (EDB)	0.20 ug/L	1			00/07/00 40 04	100.00.1	
I-Chloro-2-bromopropane (S)	87 %	0.020			03/07/09 13:34		
6010 MET ICP		60-140			03/07/09 13:34	301-79-56	
OTO MET ICF	Analytical Method: EPA 6	010 Preparation Meth	nod: EPA	3010			
Arsenic	5.7 ug/L	5.0	1	02/25/09 16:15	02/27/09 05:50	7440-38-2	
Barium	902 ug/L	5.0			02/27/09 05:50		
Cadmium	36.8 ug/L	1.0			02/27/09 05:50		
Chromium	451 ug/L	5.0			02/27/09 05:50		
.ead	251 ug/L	5.0					
Selenium	22.8 ug/L				02/27/09 05:50		
Silver			1 /				
711 V C1	ND ug/L	10.0 5.0		02/25/09 16:15 02/25/09 16:15			
470 Mercury	ND ug/L Analytical Method: EPA 7	5.0	1 (02/25/09 16:15	02/27/09 05:50		
470 Mercury	ND ug/L Analytical Method: EPA 7: ND ug/L	5.0	1 (nod: EPA	02/25/09 16:15 7470	02/27/09 05:50	7440-22-4	
	Analytical Method: EPA 7	5.0 470 Preparation Meth 0.20	1 (nod: EPA	02/25/09 16:15 7470		7440-22-4	
470 Mercury Mercury 260 MSV Low Level	Analytical Method: EPA 7 ND ug/L Analytical Method: EPA 8:	5.0 470 Preparation Meth 0.20 260	1 (nod: EPA 1 (02/25/09 16:15 7470	02/27/09 05:50 03/03/09 11:38	7440-22-4 7439-97-6	
470 Mercury Mercury 260 MSV Low Level Jenzene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L	5.0 470 Preparation Meth 0.20 260	1 (nod: EPA 1 (02/25/09 16:15 7470	02/27/09 05:50 03/03/09 11:38 03/01/09 19:58	7440-22-4 7439-97-6 71-43-2	
470 Mercury fercury 260 MSV Low Level senzene thylbenzene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0	1 (and: EPA 1 (and 1 (a	02/25/09 16:15 7470	02/27/09 05:50 03/03/09 11:38 03/01/09 19:58 03/01/09 19:58	7440-22-4 7439-97-6 71-43-2 100-41-4	
470 Mercury Mercury 260 MSV Low Level denzene thylbenzene Methyl-tert-butyl ether	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L 1.9 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0 1.0	1 (nod: EPA 1 (25 25 1	02/25/09 16:15 7470	02/27/09 05:50 03/03/09 11:38 03/01/09 19:58 03/01/09 19:58 03/03/09 18:35	7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4	
470 Mercury fercury 260 MSV Low Level fenzene thylbenzene lethyl-tert-butyl ether laphthalene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L 1.9 ug/L 194 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0 1.0	1 (nod: EPA 1 (25 25 25 1	02/25/09 16:15 7470	02/27/09 05:50 03/03/09 11:38 03/01/09 19:58 03/01/09 19:58 03/03/09 18:35 03/03/09 18:35	7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3	
470 Mercury fercury 260 MSV Low Level fenzene thylbenzene lethyl-tert-butyl ether aphthalene bluene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L 1.9 ug/L 194 ug/L 9.9 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0 1.0 1.0	1 (nod: EPA 1 (25 25 1 1 1	02/25/09 16:15 7470	03/03/09 11:38 03/01/09 19:58 03/01/09 19:58 03/03/09 18:35 03/03/09 18:35 03/03/09 18:35	7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3	
470 Mercury fercury 260 MSV Low Level fenzene thylbenzene lethyl-tert-butyl ether aphthalene bluene l&p-Xylene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L 1.9 ug/L 194 ug/L 9.9 ug/L 6.8 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0 1.0 1.0 2.0	1 (nod: EPA 1 (25 25 25 1	02/25/09 16:15 7470	02/27/09 05:50 03/03/09 11:38 03/01/09 19:58 03/01/09 19:58 03/03/09 18:35 03/03/09 18:35	7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3	
470 Mercury fercury 260 MSV Low Level denzene chylbenzene lethyl-tert-butyl ether laphthalene bluene l&p-Xylene -Xylene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L 1.9 ug/L 194 ug/L 9.9 ug/L 6.8 ug/L 113 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0 1.0 1.0 2.0	1 (nod: EPA 1 (25 25 1 1 1	02/25/09 16:15 7470	03/03/09 11:38 03/01/09 19:58 03/01/09 19:58 03/03/09 18:35 03/03/09 18:35 03/03/09 18:35	7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 1330-20-7	
470 Mercury Mercury 260 MSV Low Level Senzene Sthylbenzene	Analytical Method: EPA 7. ND ug/L Analytical Method: EPA 8: 175 ug/L 303 ug/L 1.9 ug/L 194 ug/L 9.9 ug/L 6.8 ug/L	5.0 470 Preparation Meth 0.20 260 25.0 25.0 1.0 1.0 2.0	1 (od: EPA 1 (od: EPA 25 25 1 1 1 1 1 1	02/25/09 16:15 7470	03/03/09 11:38 03/01/09 19:58 03/01/09 19:58 03/03/09 18:35 03/03/09 18:35 03/03/09 18:35 03/03/09 18:35	7440-22-4 7439-97-6 71-43-2 100-41-4 1634-04-4 91-20-3 108-88-3 1330-20-7 95-47-6	

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Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

ANALYTICAL RESULTS

Project:

FORMER RYDER TRUCK 508-1010-13

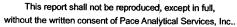
Pace Project No.: 9238596

Sample: MW-14	Lab ID: 9238596010	Collected: 02/23/0	09 13:05	Received: 0	2/24/09 09:30	Matrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA	8260				-	
1,2-Dichloroethane-d4 (S)	104 %	79-120	1		03/03/09 18:3	5 17060-07-0	
Toluene-d8 (S)	98 %	70-120	1		03/03/09 18:3		
Sample: MW-16	Lab ID: 9238596011	Collected: 02/23/0	9 14:30	Received: 02	2/24/09 09:30	Matrix: Water	
Parameters	Results Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA	8011 Preparation Meth	nod: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.019	1	03/03/09 15:07	03/07/09 13:49	9 106-93-4	
1-Chloro-2-bromopropane (S)	99 %	60-140	1	03/03/09 15:07			
6010 MET ICP	Analytical Method: EPA	6010 Preparation Metl	nod: EPA	N 3010			
Arsenic	ND ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	5 7440-38-2	
Barium	82.0 ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-39-3	
Cadmium	ND ug/L	1.0	1	02/25/09 16:15	02/27/09 06:05	7440-43-9	
Chromium	21.7 ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-47-3	
Lead	10.7 ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7439-92-1	
Selenium	ND ug/L	10.0	1	02/25/09 16:15	02/27/09 06:05	7782-49-2	
Silver	ND ug/L	5.0	1	02/25/09 16:15	02/27/09 06:05	7440-22-4	
7470 Mercury	Analytical Method: EPA	7470 Preparation Meth	nod: EPA	7470			
Mercury	1.5 ug/L	0.20	1	03/02/09 15:45	03/03/09 11:41	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA	8260					
Benzene	ND ug/L	1.0	1		03/01/09 20:22	? 71-43-2	
Ethylbenzene	ND ug/L	1.0	1		03/01/09 20:22	100-41-4	
Methyl-tert-butyl ether	ND ug/L	1.0	1		03/01/09 20:22	1634-04-4	
Naphthalene	ND ug/L	1.0	1		03/01/09 20:22	91-20-3	
Toluene	ND ug/L	1.0	1		03/01/09 20:22		
n&p-Xylene	ND ug/L	2.0	1		03/01/09 20:22		
o-Xylene	ND ug/L	1.0	1		03/01/09 20:22		
I-Bromofluorobenzene (S)	97 %	87-109	1		03/01/09 20:22		
Dibromofluoromethane (S)	109 %	85-115	1		03/01/09 20:22		
1,2-Dichloroethane-d4 (S)	110 %	79-120	1		03/01/09 20:22		
Foluene-d8 (S)	101 %	70-120	1		03/01/09 20:22		

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QUALITY CONTROL DATA

Project:	FORMER F	RYDER TRU	ICK 508-1010	0-13									
Pace Project No.:	9238596			- · ·									
QC Batch:	MERP/20	00		Analy	sis Metho	d:	E	PA 7470					· · ·
QC Batch Method:	EPA 7470			Analy	sis Descri	iption:	7	470 Mercur	v				
Associated Lab San	nples: 923	88596001, 9	238596002, 9						,				
METHOD BLANK:	242254				Matrix: W	/ater				-			
Associated Lab Sam	iples: 923	8596001, 92	238596002, 9	923859600	3, 923859	6004							
				Blan		Reportir	na						
Param	eter		Units	Resu		Limit	3	Analyz	zed	Qualifiers			
Mercury		ug/L			ND		0.20	02/27/09	15:03	÷			
LABORATORY CON	ITROL SAM	PLE: 2422	255		· · · · ·								
Param	eter		Units	Spike Conc.	LC Res			LCS % Rec	% Red Limits		ualifiers		
Mercury		ug/L		2.5	5	2.2		89)-120		-	
MATRIX SPIKE & MA	ATRIX SPIKI	E DUPLICAT	ΓE: 24241	3		2424	14						
				MS	MSD								
D			237900007	Spike	Spike	MS		MSD	MS	MSD	% Rec		
Paramete	er ————	Units	Result	Conc.	Conc.	Resu	ılt	Result	% Rec	% Rec	Limits	RPD	Qual
Mercury		ug/L	ND	2.5	2.5		2.5	2.7	99	107	75-125	7	
SAMPLE DUPLICATI	E: 242415										-		
				9238542	004	D							
Parame	eter		Units	Resul		Dup Result		RPD	Qu	alifiers			
Mercury		ug/L			0.45		0.30		41 R1				

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2225 Riverside Dr. Asheville, NC 28804

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QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK 508-1010-13 Pace Project No.: 9238596 QC Batch: MERP/2003 Analysis Method: EPA 7470 QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Associated Lab Samples: 9238596005, 9238596006, 9238596007, 9238596008, 9238596009, 9238596010, 9238596011 METHOD BLANK: 243851 Matrix: Water Associated Lab Samples: $9238596005,\,9238596006,\,9238596007,\,9238596008,\,9238596009,\,9238596010,\,9238596011$ Blank Reporting Parameter Units Result Limit Analyzed Qualifiers Mercury ug/L ND 0.20 03/03/09 10:59 LABORATORY CONTROL SAMPLE: 243852 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Mercury ug/L 2.5 3.0 119 80-120 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 243853 243854 MS MSD 9238809002 Spike Spike MS MSD MS MSD % Rec Parameter Units Result Conc. Result Conc. Result % Rec % Rec Limits **RPD** Qual Mercury ug/L 3.2 25 25 14.0 12.7 43 75-125 10 M0 SAMPLE DUPLICATE: 243855 9238816001 Dup Parameter Units Result Result RPD Qualifiers

0.97

0.76

24

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Mercury

ug/L

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(704)875-9092

Huntersville, NC 28078

QUALITY CONTROL DATA

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

QC Batch:

OEXT/6036

QC Batch Method:

EPA 8011

Analysis Method:

EPA 8011

9238596001

Analysis Description:

GCS 8011 EDB DBCP

Associated Lab Samples:

METHOD BLANK: 244049

Matrix: Water

Associated Lab Samples:

9238596001

Parameter

Units

Result

Blank

Spike

MS

Reporting Limit

Analyzed

Qualifiers

1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

ug/L %

ND 97

0.020 03/06/09 21:13 60-140 03/06/09 21:13

LABORATORY CONTROL SAMPLE & LCSD:

244050

Units

244051 LCS LCSD

LCS LCSD

Max **RPD**

Qualifiers

1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

Parameter

ug/L %

Units

ug/L

%

Conc. Result .29 0.32

% Rec % Rec 0.30 110 97

106 60-140 97 60-140

% Rec

Limits

RPD 6 20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

244052

ND

MSD

.27

244053

Result

% Rec

60-140

Parameter 1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S) 9238815014 Result

Spike Spike Conc. Conc.

ND

MS MSD Result Result

0.33

97

MS % Rec 0.33

120

101

MSD % Rec

120

102

Limits **RPD**

Qual 0

SAMPLE DUPLICATE:

244054

9238815015 Result

.27

Dup

60-140

Qualifiers

1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

Parameter

ug/L %

Units

Result

RPD ND

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project:

Silver

FORMER RYDER TRUCK 508-1010-13

ug/L

Pace Project No.:

9238596

QC Batch:

MPRP/3883

Analysis Method:

EPA 6010

QC Batch Method:

EPA 3010

Analysis Description:

6010 MET

Associated Lab Samples:

9238596008, 9238596009, 9238596010, 9238596011

METHOD BLANK: 241305

Associated Lab Samples:

9238596008, 9238596009, 9238596010, 9238596011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/27/09 05:14	
Barium	ug/L	ND	5.0	02/27/09 05:14	
Cadmium	ug/L	ND	1.0	02/27/09 05:14	
Chromium	ug/L	ND	5.0	02/27/09 05:14	
Lead	ug/L	ND	5.0	02/27/09 05:14	
Selenium	ug/L	ND	10.0	02/27/09 05:14	
Silver	ug/L	ND	5.0	02/27/09 05:14	

LABORATORY CONTROL SAM	IPLE: 241306					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	458	92	80-120	
Barium	ug/L	500	467	93	80-120	
Cadmium	ug/L	500	463	93	80-120	
Chromium	ug/L	500	463	93	80-120	
Lead	ug/L	500	469	94	80-120	
Selenium	ug/L	500	455	91	80-120	

250

MATRIX S	SPIKE & MATRIX S	PIKE DUPLICATE	: 24130	7		241308					-	-
	Parameter	92 Units	38596008 Result	MS Spike Conc.	MSD Spike Conc.	M\$ Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Arsenic		ug/L	6.4	500	500	267	263	52	51	75-125	2 MC)
Barium		ug/L	3040	500	500	3080	3180	8	28	75-125	3 MC	ı
Cadmium		ug/L	137	500	500	383	399	49	52	75-125	4 MC	1
Chromium)	ug/L	827	500	500	1050	1100	45	56	75-125	5 MC	1
Lead		ug/L	1180	500	500	1320	1290	28	23	75-125	2 MC	1
Selenium		ug/L	39.4	500	500	217	218	36	36	75-125	.5 MC	1
Silver		ug/L	ND	250	250	165	171	65	68	75-125	4 M0	

224

90

80-120

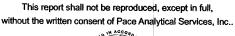
Parameter	Units	9238596009 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND .	ND		
Barium	ug/L	52.9	51.9	2	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	1.3J		

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SAMPLE DUPLICATE: 241309

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QUALITY CONTROL DATA

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.: 9238596

SAMPLE DUPLICATE: 241309

Parameter	Units	9238596009 Result	Dup Result	RPD	Qualifiers
Lead Selenium Silver	ug/L ug/L ug/L	ND ND ND	ND ND .37J		

Date: 03/10/2009 05:26 PM

REPORT OF LABORATORY ANALYSIS





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QUALITY CONTROL DATA

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

QC Batch:

MSV/6260

Analysis Method:

EPA 8260

QC Batch Method:

EPA 8260

Analysis Description:

8260 MSV Low Level

Associated Lab Samples:

9238596009, 9238596010, 9238596011

METHOD BLANK: 243594 Associated Lab Samples:

Matrix: Water

9238596009, 9238596010, 9238596011

Blank Reporting	
Parameter Units Result Limit Analyzed	Qualifiers
Benzene ug/L ND 1.0 03/01/09 13:15	
Ethylbenzene ug/L ND 1.0 03/01/09 13:15	
m&p-Xylene ug/L ND 2.0 03/01/09 13:15	
Methyl-tert-butyl ether ug/L ND 1.0 03/01/09 13:15	
Naphthalene ug/L ND 1.0 03/01/09 13:15 o-Xylene	
Toluene ND 1.0 03/01/09 13:15	
1.2-Dichloroethano d4 (S)	
4-Bromofluorobenzene (S) 9/	
Dibromoffuoromethane (S)	
Toluene-d8 (S) % 106 85-115 03/01/09 13:15 70-120 03/01/09 13:15	

LABORATORY CONTROL SAMI	PLE: 243595		-			
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/L	50	49.9	100	78-128	
Ethylbenzene	ug/L	50	50.7	101	80-127	
m&p-Xylene	ug/L	100	105	105	82-127	
Methyl-tert-butyl ether	ug/L	50	52.1	104	71-130	
Naphthalene	ug/L	50	64.3	129	52-136	
o-Xylene	ug/L	50	51.7	103	83-124	
Toluene	ug/L	50	48.8	98	76-126	
1,2-Dichloroethane-d4 (S)	%		į	102	79-120	
4-Bromofluorobenzene (S)	%			100	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			99	70-120	

MATRIX SPIKE & MATRIX SP	PIKE DUPLICAT	E: 24377	5		243776						
Parameter	9: Units	238596008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD	Qual
Benzene	ug/L	ND	50	50	55.6	52.1	111	104	74-136		
Foluene	ug/L	ND	50	50	55.7					6	
,2-Dichloroethane-d4 (S)	%		00	50	95.7	52.4	111	105	73-131	6	
l-Bromofluorobenzene (S)							103	102	79-120		
	%						98	98	87-109		
Dibromofluoromethane (S)	%						100	101	85-115		
oluene-d8 (S)	%						97	97	70-120		

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QUALITY CONTROL DATA

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

QC Batch:

OEXT/6037

Analysis Method:

EPA 8011

QC Batch Method:

EPA 8011

Analysis Description:

Associated Lab Samples:

GCS 8011 EDB DBCP

Analyzed

9238596010, 9238596011

Matrix: Water

Associated Lab Samples:

METHOD BLANK: 244057

9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007, 9238596008, 9238596009,

9238596010, 9238596011

Blank

Conc.

.29

Reporting

Parameter

Units

Units

9238596002

Result

Result

Limit

Qualifiers

1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

ug/L %

ND 119

0.020 03/07/09 10:00 60-140 03/07/09 10:00

LABORATORY CONTROL SAMPLE & LCSD: 244058 Spike

LCS Result 244059 LCSD LCS Result % Rec

0.32

LCSD % Rec % Rec Limits

Max **RPD** RPD

2

Qualifiers

1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

Parameter

ug/L %

0.31

110

97

99 60-140

MS

114

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

244060

MSD

244061

MSD

MSD

60-140

% Rec

Qual

1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

Parameter

ug/L %

Units

Conc. ND .27

MS

Spike

Spike M\$ Conc. Result .27

Result 0.41 0.40 % Rec 148

119

% Rec Limits 146

116

RPD 60-140

1 M0 60-140

20

SAMPLE DUPLICATE: 244062

Parameter 1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)

Units ug/L

%

9238596003 Result

ND

Dup Result

ND

98

RPD

5

Qualifiers

Date: 03/10/2009 05:26 PM

REPORT OF LABORATORY ANALYSIS





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(704)875-9092

QUALITY CONTROL DATA

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

QC Batch:

MPRP/3878

Analysis Method:

EPA 6010

QC Batch Method:

EPA 3010

Analysis Description:

6010 MET

Associated Lab Samples:

 $9238596001,\,9238596002,\,9238596003,\,9238596004,\,9238596005,\,9238596006,\,9238596007$

METHOD BLANK: 241283

Matrix: Water

Associated Lab Samples:

9238596001, 9238596002, 9238596003, 9238596004, 9238596005, 9238596006, 9238596007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	02/26/09 18:14	
Barium	ug/L	ND	5.0	02/26/09 18:14	
Cadmium	ug/L	ND	1.0	02/26/09 18:14	
Chromium	ug/L	ND	5.0	02/26/09 18:14	
Lead	ug/L	ND	5.0	02/26/09 18:14	
Selenium	ug/L	ND	10.0	02/26/09 18:14	
Silver	ug/L	ND	5.0	02/26/09 18:14	

LABORATORY CONTROL SAMPLE: 241284

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	446	89	80-120	
Barium	ug/L	500	444	89	80-120	
Cadmium	ug/L	500	455	91	80-120	
Chromium	ug/L	500	465	93	80-120	
Lead	ug/L	500	467	93	80-120	
Selenium	ug/L	500	435	87	80-120	
Silver	ug/L	250	225	90	80-120	

MATRIX SPIKE & MAT	RIX SPIKE DUPLICAT	E: 24128	5		241286						
			MS	MSD							
	9:	237900001	Spike	Spike	MS	MSD	MS	MSD	% Rec		
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	Qual
Arsenic	ug/L	ND	500	500	466	436	93	87	75-125	7	
Barium	ug/L	46.2	500	500	501	471	91	85	75-125	6	
Cadmium	ug/L	ND	500	500	464	440	93	88	75-125	5	
Chromium	ug/L	3.9J	500	500	476	452	94	90	75-125	5	
_ead	ug/L	ND	500	500	467	444	93	89	75-125	5	
Selenium	ug/L	ND	500	500	456	433	91	87	75-125	5	
Silver	ug/L	0.24J	250	250	227	216	91	86	75-125	5	

SAMPLE DUPLICATE: 241287

Parameter	Units	9238658001 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND ND	ND		
Barium	ug/L	9.0	8.9	.8	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	ND		

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(828)254-7176

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100

Huntersville, NC 28078

(704)875-9092

QUALITY CONTROL DATA

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

SAMPLE DUPLICATE: 241287

Parameter	Units	9238658001 Result	Dup Result	RPD	Qualifiers
Lead Selenium Silver	ug/L ug/L ug/L	ND ND 0.10J	ND ND ND		

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> Asheville, NC 28804 (828)254-7176

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QUALIFIERS

Project:

FORMER RYDER TRUCK 508-1010-13

Pace Project No.:

9238596

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

MO

Matrix spike recovery was outside laboratory control limits.

R1

RPD value was outside control limits.

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REPORT OF LABORATORY ANALYSIS

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ace Analvtical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

والمراجعة والمستراء والمستراء والمستراء والمتاه والمتاها

| Additional Comments: Additional Comments: Color |--|
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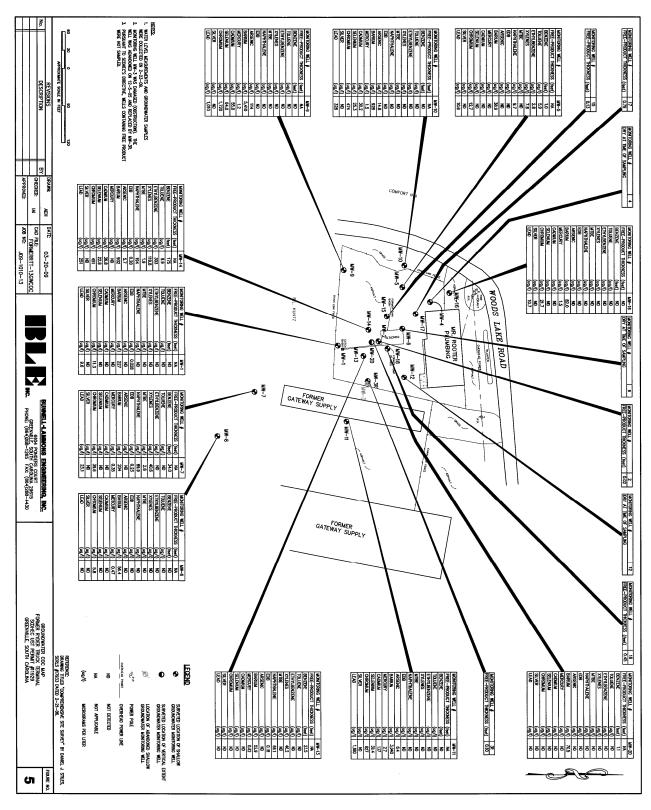




TABLE 3

AFVR Gauging Data (December 12, 2008)
Forner Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

		PMR _g	0.04	9.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.03	0.02	0.02	0.02	0.02	0.03	1.4419
		PMR _g	0.26	0.26	0.25	0.25	0.24	0.23	0.23	0.23	0.23	0.21	0.20	0.19	9.18	0.15	0.14	0.14	0.14	0.21	
		PMR,	0.23	0.22	0.22	0.22	0.21	0.20	0.20	0.20	0.20	0.18	0.17	0.17	0.15	0.13	0.12	0.12	0.12	0.18	
	TIONS	C	1.27E-04	1.25E-04	1.23E-04	1.20E-04	1.13E-04	1.11E-04	1.10E-04	1.08E-04	1.08E-04	1.02E-04	9.56E-05	9.03E-05	8.43E-05	7.21E-05	6.74E-05	6.62E-05	6.46E-05	9.93243E-05	as Emissions:
	EMISSION CALCULATIONS	C _{cm} (mo/dsm3)	2,029.89	2,006.48	1,973.70	1,926.88	1,814.49	1,784.06	1,760.65	1,734.89	1,727.87	1,629.53	1,531.20	1,446.91	1,350.92	1,154.25	1,079.33	1,060.60	1,034.85	1590.97	Total Pounds of Carbon Recovered as Emissions:
	EMISSIC	¥	4	4	4	4	7	4	7	•		4	4	7	4	4	4	4	4	4	otal Pounds of C
		PPMc	4,068.24	4,021.31	3,955.62	3,861.77	3,636.54	3,575.54	3,528.62	3,477.01	3,462.93	3,265.85	3,068.77	2,899.85	2,707.47	2,313,31	2,163.16	2,125.62	2,074.00	3,188.57	
V-17		PPM _d	1,017.06	1,005.33	16'886	965.44	909.14	893.89	882.16	869.25	865.73	816.46	767.19	724.96	28'929	578.33	540.79	531.40	518.50	797.14	
'-4 and MV		Oscie	29.66	29.60	29.73	30.00	30.31	30.07	30.35	30.23	30.39	30.23	30.43	30.99	30.07	30.47	30.79	30.31	30.51	30.24	
WELL ID #: MW-4 and MW-17		Elapsed Time	0	0:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	00:9	6:30	7:00	7:30	8:00		
WEL		PPM _{measured}	867	857	843	823	277	762	752	741	738	969	654	819	277	493	461	453	442	089	
		Rel. Humidity	92.7	91.4	92.5	92.2	816	88.4	86.3	85.4	79.3	75.2	78.6	75.3	6.97	75.2	73.6	74.1	72.7	82.4	
	EMENTS	Temp (F)	118	124	130	131	132	132	132	132	132	132	132	132	132	132	132	132	132	131	
	AFVR FIELD MEASUREMENTS	Pipe D	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
	AFVR FIE	Velocity (ff/min)	726	732	743	751	092	754	761	758	762	758	763	111	754	764	772	160	292	756	0.089
		Vacuum (in. Hg)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	Bwsw
		Time	0060	0630	1000	1030	1100	1130	1200	1230	1300	1330	1400	1430	1500	1530	1600	1630	1700	Values	0.148
		Date	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	12/12/2008	Average Values	Bws

NOTES:

1.6688 0.2670

Total Pounds of Gasoline Recovered as Emissions: Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

C_{m.} mass concentration of VOC emissions as carbon

C_{c.} mass concentration of VOC emissions as earbon,

C_{c.} plus mass removal of VOCs as earbon

PMR_s, pollutant mass removal of VOCs as gasoline

B_{w.} Pol Viviate pto D of day air

B_{w.} water vapor 8, by volume

Calculations have been derived from published guidance.

AFVR event performed by Excalibur Environmental Services, Inc. on December 12, 2008.

Vacuum applied to monitoring wells MW4 and MW1-17.

Ol 15 and 0.63 feet of free-phase pertolamp product measured in MW4 and MW17, respectively prior to initiating the AFVR event. Vapor concontrations measured using a polyhole MmiRAE* 2000 Photo-Jonization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million
Qu. flow at INSCFM
DSCEM - Dry Stander Cubic Feet per Minute
PPM, - "dar", concentration
PPM, - "dur", concentration of VOC emissions as carbon, dry basis, at STP

TABLE 5

Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13 AFVR Gauging data (December 15, 2008) Former Ryder Truck Terminal

2.6887			d as Emissions:	Total Pounds of Carbon Recovered as Emissions:	otal Pounds of	T								0.115	\mathbf{B}_{wsw}	0.191	$\mathbf{B}_{\mathbf{ws}}$
0.06	0.39	0.34	7.49467E-05	1200.49	4	2,405.98	601.50	74.74		487	67.2	150	3	1,987	22	Average Values	Avera
0.05	0.34	0.29	6.44E-05	1,030.77	4	2,065.84	516.46	75.05	8:00	418	47.3	158	3	2,022	22	1730	12/15/2008
0.05	0.34	0.29	6.56E-05	1,050.50	4	2,105.38	526.34	74.86	7:30	426	50.4	158	3	2,017	22	1700	12/15/2008
0.06	0.35	0.30	6.65E-05	1,065.30	4	2,135.03	533.76	74.90	7:00	432	52.8	158	3	2,018	22	1630	12/15/2008
0.06	0.35	0.30	6.76E-05	1,082.56	4	2,169.63	542.41	74.79	6:30	439	53.2	158	3	2,015	22	1600	12/15/2008
0.06	0.36	0.31	6.90E-05	1,104.75	4	2,214.11	553.53	75.01	6:00	448	55.3	158	3	2,021	22	1530	12/15/2008
0.06	0.36	0.31	6.96E-05	1,114.62	4	2,233.88	558.47	75.12	5:30	452	57.7	158	3	2,024	22	1500	12/15/2008
0.06	0.37	0.32	7.02E-05	1,124.48	4	2,253.64	563.41	75.18	5:00	456	60.5	156	3	2,019	22	1430	12/15/2008
0.06	0.37	0.32	7.10E-05	1,136.81	4	2,278.36	569.59	74.99	4:30	461	61.6	156	ü	2,014	22	1400	12/15/2008
0.06	0.38	0.33	7.19E-05	1,151.61	4	2,308.01	577.00	75.47	4:00	467	62.5	153	3	2,017	22	1330	12/15/2008
0.06	0.38	0.33	7.27E-05	1,163.94	4	2,332.72	583.18	75.21	3:30	472	65.7	153	3	2,010	22	1300	12/15/2008
0.06	0.39	0.34	7.48E-05	1,198.46	4	2,401.91	600.48	75.14	2:30	486	64.6	153	3	2,008	22	1200	12/15/2008
0.06	0.39	0.34	7.62E-05	1,220.65	4	2,446.39	611.60	74.55	2:30	495	72.3	152	3	1,989	22	1200	12/15/2008
0.06	0.39	0.34	7.74E-05	1,240.38	4	2,485.93	621.48	72.97	2:00	503	78.4	152	3	1,947	22	1130	12/15/2008
0.06	0.38	0.32	7.53E-05	1,205.86	4	2,416.74	604.18	71.78	1:30	489	80.1	151	3	1,912	22	1100	12/15/2008
0.06	0.38	0.33	7.68E-05	1,230.52	4	2,466.16	616.54	71.07	1:00	499	92.5	151	3	1,893	22	1030	12/15/2008
0.08	0.52	0.45	9.36E-05	1,499.31	4	3,004.86	751.21	79.40	0:30	608	93.4	112	3	1,980	22	1000	12/15/2008
0.09	0.58	0.50	1.12E-04	1,787.83	4	3,583.10	895.77	75.07	0	725	93.7	112	3	1,872	22	0930	12/15/2008
(gal/hr)	(lb/hr)	(lb/hr)	(lb/dscf)	(mg/dsm3)				(DSCFM)	(hr:min)	(ppm)	(%)	(F)	(in)	(f/min)	(in. Hg)	Time	Date
PMR _g	PMR _g	PMR _c	°,	C _{cm}	K	PPM _c	PPM _d	Q _{std}	Elapsed Time	PPMmeasured	Rel. Humidity	Temp	Pipe D	Velocity	Vacuum		
			ATIONS	EMISSION CALCULATIONS	EMISSI							REMENTS	AFVR FIELD MEASUREMENTS	AFVR FI			
						-18	AND MW.	-6, MW-15,	WELL ID# MW-2, MW-6, MW-15, AND MW-18	ELL ID# N	W						

17	
15	
P	
-	
1	
12.5	
19.2	

AFVR event performed by Excalibur Environmental Services, Inc. on December 15, 2008.

Vacuum applied to monitoring wells MW-2, MW-6, MW-15 and MW-18.

1.30 and 0.46 feet of free-phase perfordenm product measured in MW-15 and MW-18, respectively prior to initiating the AFVR event. Prior to initiating the AFVR event, the free-phase petroleum product layer in MW-6 exended below the screened interval, therefore an accurate free-phase petroleum product thickness could not be determined.

No free-phase petroleum product was measured in MW-2 prior to initiating the AFVR event Vapor concentrations measured using a portable MiniRAE* 2000 Photo-Ionization Detector (PID). inches of Fig. - inches of mercury

ppm - parts per million Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

 PPM_d - "dry" concentration PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

3.1116 0.4979

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

C_{m.} mass concentration of VOC emissions as carbon

C, mass concentration of VOC emissions as carbon, dry basis, at STP

PMR_{s.} pollutant mass removal of VOCs as carbon

PMR_{s.} pollutant mass removal of VOCs as gasoline

B_{w.} b of water per lb of dry air

B_{w.} b of water per lb of up air

Calculations have been derived from published guidance.

AFVR Gauging Data (January 20, 2009)
Former Ryder Truck Terminal
Greeuville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13

WELL ID #: MW-4 and MW-17	UREMENTS EMISSION CALCULATIONS	PPM _d PPM _c K C _{cm} C _c PMR _t PMR _g	(%) (ppm) (hr:min) (DSCEM) (mg/dsm3) (lb/dscf) (lb/hr) (lb/hr) (110 87.1 1,587 0 40.81 1,791,98 7,167,91 4 3,576,51 2,23E,44 0,55 0,63 0,10	110 87.2 1,481 0:30 41.06 1,672.29 6,689.15 4 3,337.63 2,08E.04 0.51 0.59 0.10	110 86.6 1,305 1:00 41.19 1,473.56 5,894.22 4 2,940.99 1,84E.04 0.45 0.53 0.08	110 87.2 983 1:30 4.0.39 1;109.97 4,439.86 4 2,215.32 1,38E.04 0.34 0.39 0.06	118 87.8 87.9 2:00 38.74 992.53 3.370.13 4 1,980.94 1,24E.04 0.29 0.33 0.05	663 2:30 38:32 748:63 2.994:53 4 1,494:16 8	454 3:00 38.55 512.64 2,050.56 4 1,023.15		433 4:00 40.01 488.93 1,955.71 4 975.82 3	128 87.8 421 4.30 39.31 475.38 1,901.51 4 948.78 5.91E-05 0.14 0.16 0.03	130 86.7 418 5:00 39.38 471.99 1.887.96 4 942.02 5.88E-05 0.14 0.16 0.03		132 85.7 394 6:00 38.88 444.89 1,779.56 4 887.93 5.54E-05 0.13 0.15 0.02	132 83.6 390 6.30 38.88 440.37 1,761.49 4 878.92 5.49E.45 0.13 0.15 0.02	132 83.6 381 7:00 39.17 430.21 1,720.84 4 888.63 5,36E.45 0.13 0.15 0.02	4.46E-05 0.11 0.12	4 261 8:00 39.34 294.71 1,178.84 4 588.20	123 82.1 660 39.50 745.38 2,981.52 4 1487.66 9.28747E-05 0.22 0.25 0.04	Total Pounds of Carbon Recovered as Emissions: 1.7610
WELL		PPMmeasured	-	_											1			_	7.	4	1	-
	AFVR FIELD MEASUREMENTS	r	(E)																			
	AFVR FIELD M	Velocity Pi		964	07.6	973	954	928	918	933	962	975	856	963	726	954	954	196	226	962	955	690.0
		Vacuum	(in. Hg)	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	B _{wsw}
			Time	0945	1015	1045	1115	1145	1215	1245	1315	1345	1415	1445	1515	1545	1615	1645	1715	1745	Average Values	9.114
			Date	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	1/20/2009	Avera	B _{ws}

2.0380 0.3261

Total Pounds of Gasoline Recovered as Emissions: Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

C_{2s} mass concentration of VOC emissions as carbon

C_c mass concentration of VOC emissions as carbon

C_c mass concentration of VOC as scarbon

PMR_c, pollutant mass removal of VOCs as gasoline

PMR_s, pollutant mass removal of VOCs as gasoline

B_{ssss}, low five appr Pol of dry air

B_{ssss}. Not ware pre Pol of dry air

Calculations have been derived from published guidance.

AFVR event performed by Excalibur Environmental Services, Inc. on January 20, 2009.

Vacuum applied to monitoring wells MW4 and MW4.17.

Value and 0.97 feet of free-phase petroleam product was measured in MW4 and MW-17, respectively, prior to initiating the AFVR event.

Value concentrations measured using a portable MinitAE**

Zo000 Photo-Ionization Detector (PID).

Inches of Fig. - inches of mercury

ppm - parts per million

Qea, Robert Day Standard Cubic Feet per Minute

PSVEM - Day Standard Cubic Feet per Minute

PPM, - "day concentration

PPM, - valventric concentration of VOC emissions as carbon, dry basis, at STP

TABLE 9

Greenville, South Carolina
UST Permit #11929; Cost Agreement #34322
BLE Project No. J08-1010-13 AFVR Gauging Data (January 21, 2009)
Former Ryder Truck Terminal

	$\mathbf{B}_{\mathbf{w}\mathbf{s}}$	Aver	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	1/21/2009	Date				
	0.217	Average Values	1745	1715	1645	1615	1545	1515	1445	1415	1345	1315	1245	1215	1145	1115	1045	1015	0945	Time				
	B_{wsw}	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	(in. Hg)	Vacuum			
	0.131	1,816	1,863	1,872	1,877	1,867	1,853	1,847	1,841	1,844	1,822	1,794	1,783	1,777	1,757	1,761	1,775	1,771	1,763	(ft/min)	Velocity	AFVR FI		
		3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	(in)	Pipe D	AFVR FIELD MEASUREMENTS		
		145	146	148	150	150	152	152	152	152	152	152	152	140	140	140	128	128	128	(F)	Temp	EMENTS		
		82.6	71.8	72.7	73.1	74.4	76.4	77.1	78.2	79.5	81.6	82.8	84.2	88.5	92.3	93.0	93.6	92.3	92.7	(%)	Rel. Humidity		W	
		496	461	487	483	479	471	475	482	490	492	472	447	451	437	445	465	663	730	(ppm)	PPM _{measured}		WELL ID #:MW-2, MW-6, MW-15 and MW-18	
			8:00	7:30	7:00	6:30	6:00	5:30	5:00	4:30	4:00	3:30	3:00	2:30	2:00	1:30	1:00	0:30	0	(hr:min)	Elapsed Time		1W-2, MW	
		67.61	69.24	69.35	69.30	68.93	68.19	67.97	67.75	67.86	67.05	66.02	65.62	66.71	65.95	66.10	67.99	67.84	67.53	(DSCFM)	Q_{std}		-6, MW-15	
		633.45	588.89	622.10	616.99	611.88	601.66	606.77	615.71	625.93	628.49	602.94	571.00	576.11	558.23	568.45	594.00	846.93	932.51		PPM _d		and MW-1	
		2,533.79	2,355.55	2,488.40	2,467.97	2,447.53	2,406.65	2,427.09	2,462.86	2,503.73	2,513.95	2,411.76	2,284.02	2,304.46	2,232.92	2,273.80	2,375.99	3,387.70	3,730.05		PPM _c		· SS	
Total Pounds of	Total Pounds of	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		K	EMISS		
Total Pounds of Gasoline Recovered as Emissions:	Total Pounds of Carbon Recovered as Emissions:	1264.26	1,175.33	1,241.62	1,231.42	1,221.22	1,200.83	1,211.02	1,228.87	1,249.27	1,254.37	1,203.37	1,139.64	1,149.83	1,114.14	1,134.54	1,185.53	1,690.33	1,861.15	(mg/dsm3)	C _{cm}	EMISSION CALCULATIONS		
ed as Emissions:	d as Emissions:	7.89279E-05	7.34E-05	7.75E-05	7.69E-05	7.62E-05	7.50E-05	7.56E-05	7.67E-05	7.80E-05	7.83E-05	7.51E-05	7.11E-05	7.18E-05	6.96E-05	7.08E-05	7.40E-05	1.06E-04	1.16E-04	(lb/dscf)	C,	ATIONS		
		0.32	0.30	0.32	0.32	0.32	0.31	0.31	0.31	0.32	0.32	0.30	0.28	0.29	0.28	0.28	0.30	0.43	0.47	(lb/hr)	PMR _c			
		0.37	0.35	0.37	0.37	0.36	0.35	0.36	0.36	0.37	0.36	0.34	0.32	0.33	0.32	0.33	0.35	0.50	0.54	(lb/hr)	PMR_{g}			
2.9645	2.5616	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.06	0.08	0.09	(gal/hr)	PMR_{g}			

NOTES:
AFVR event performed by Excalibur Environmental Services, Inc. on January 21, 2009.
Vacuum applied to monitoring wells MW-2, MW-6, MW-15, and MW-18.

O01, O01, O.19, and 0.19 feet of free-phase petroleum product was detected in MW-2, MW-6, MW-15, and MW-18, respectively prior to initiating the AFVR event.

Vapor concentrations measured using a portable MiniRAE* 2000 Photo-Ionization Detector (PID).

inches of Hg - inches of mercury

ppm - parts per million
Q_{rad}. flow at DSCFM - Dry Standard Cubic Feet per Minute
DSCFM - Dry Standard Cubic Feet per Minute
PPM₄ - "dry" concentration
PPM₆ - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions: Total Gallons of Gasoline Recovered as Emissions:

0.4743

K - number of carbons in calibration gas

K. - number of carbons in calibration gas

C_m. mass concentration of VOC emissions as carbon, dry basis, at STP

PMR₊, pollutant mass removal of VOCs as carbon

 $\ensuremath{\mathsf{PMR}_{\mathtt{g}}}$, pollutant mass removal of VOCs as gasoline

TABLE 10 Laboratory Analytical Results Volatile Organic Compounds Former Rader Truck Terminal Creenville, South Carolina UST Permit H11929; Cost Agreement #34322 BLE Project No. J08-1010-13

1,2-DC. (µg/L)	(hg/L)	Naphthalene (A'84)	MTBE (µg/L)	XATA latoT (Algu)	Xylenes (µg/L)	Ethyl Benzene (µg/L)	Toluene (J\g4)	Benzene Benzene	Free Product Thickness (feet)	Date Sampled	IРА
ş	20.0	57	017	-	10,000	004	1,000	S	AN (1993)	C RBSL	SC DHE
IN	ND UD	ND ND	ND ND	31.35	#9	ND 7'01	dN 1.74	9'0Z	VN VN	86/01/70 96/£1/71	
IN	TN	dN dN	QN QN	9.2 GN	(IN	QN QN	ND ND	9'7 ON	VN VN	66/67/80	
TN	IN	ND	ND	αN	ŒΝ	ND	ИD	IND	VN	10/90/40	
TN	IN IN	UD UD	ON ON	ND ND	UN UN	ND ND	ND ND	UN UD	VN VN	\$0/8Z/10	I-WM
LN	IN IN	QN QN	GN.	QN QN	GN.	QN QN	QN CN	QN QN	VN VN	\$0/07/10	1-1111
TN	ND	ND	ΩN	αN	αN	MD	ND	ŒΝ	VN	90/52/20	
IN	IN IN	UD UD	ND ND	AD AD	UN UN	ND ND	ND ND	UN UD	VN VN	80/60/60 £0/67/90	
IN	820.0	QN .	ND CN	QN QN	dN dN	QN QN	QN	QN QN	VN VN	05/53/00	
IN	JN	006	1,11	878	€9€	6,54	577	546	AN	96/£1/7.1	
SN	SN	SN SN	SN	SN SN	SN	SN SN	SN	SN	7.0	66/67/£0 86/01/Z0	
SN	SN	SN	SN	SN	SN	SN	SN	SN SN	57'I	10/50/20	
SN	SN	SN	SN	SN	SN	SN	SN	SN	1,92	£0/8Z/10	•
SN	SN	SN	SN	SN	SN	SN	SN	SN	10,0	\$0/Z0/Z0	Z-WM
LN SN	EE'0	740 SN	GN SN	8'96Z SN	0/I SN	8'9 SN	QN SN	SN SN	£2.0	90/57/70	
SN	SN	SN 067	SN	SN	SN	SN	SN	SN	97'0 WN	L0/67/50	
SN	SN	SN	SN	SN	SN	SN	SN	SN	62.0	80/60/60	
SN	SN	SN	GN SN	9L'S	Σ'E SN	ND NS	SN	SN	20.0	60/57/70	
TN	ZN TN	12.5	3.12	74.E	QN 7.6	GN.	ND ND	2.6 74.E	AN	66/67/E0 86/01/Z0	
LN	TN	ΠN	ΔN	dΝ	αN	ND	ΔN	ΩN	VN	10/90/40	
IN	TN	dN DN	1.2	t/I	dN MD	QN	ND	t/I	٧N	£0/8Z/T0	
IN IN	TN GN	ND ND	GN L'E	UN UN	UN UD	ND ND	ND ND	UN UN	AN AN	\$0/07/10	as-ww
TN	(IN	dN dN	dΝ	dΝ	QN	QN GN	QN CN	QN CN	VN	90/57/70	
IN	TN	dΝ	ИD	αN	ND	MD	ΔN	ИD	VN	L0/67/\$0	
IN IN	UN UD	ND ND	ND ND	I'I MD	UN UN	ND ND	ND ND	I.I	VN VN	60/57/70 80/60/60	
IN	QN	901	dΝ	2.182	163	£.91	\$.9	S'79	VN	86/01/70	
SN	SN	SN	SN	SN	SN	SN	SN	SN	10.0	66/67/£0	
SN SN	SN SN	SN SN	SN SN	SN SN	SN	SN SN	SN	SN SN	0.04	£0/8Z/10 10/50/L0	E-WIM
SN	SN	SN	SN	SN	SN	SN	SN	SN	٧N	05/05/04	
SN	SN	SN	SN	SN	SN	SN	SN	SN	٧N	\$0/07/10	
IN	06'0	170	ND	ell Abandoned	W gnirotinoM 0.18	ND	ND	0.04	AN	90/52/20	
IN IN	18.0	0†1	QN QN	LSI	0.001	QN GN	(IN	0.84	VN VN	L0/6Z/50	uc mrt
ΩN	44.0	2,59	ND	6.04	L'LI	ND	ΠD	23.2	VN	80/60/60	MW-3R
SN	SN	SN	SN	SN	I SN	SN	SN	SN	9'0	60/53/00	
IN IN	UN.	7.97	ND ND	6.521 50.01	0CI 0.0I	UN 1.73	ND ND	ND 7.2	VN VN	66/67/E0 86/01/70	
LN	IN	9.64	ΩN	2.1.5	21.5	ND	αN	MD	٧N	10/90/40	
IN	IN	dN ND	QN.	UN.	Q.N.	UN.	ND ND	UN.	VN	£0/8Z/10	
TN	IN	UN UN	UN UD	UN UN	ND ND	GN ON	UN UN	UN UN	VN	\$0/02/10	t-WM
TN	ND ND	UD UD	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	VN VN	90/57/70	
TN	IN	ND	ΠD	an	ΩN	ИD	dΝ	ΠD	VΝ	L0/67/\$0	
SN	SN	SN	SN	SN	SN	SN	SN	SN	96'0	80/60/60	
J.N.	UN.	1 2 22	UN	LY 23.33		l un	UN.	391	I VIN	60/52/20	
IN IN	DN TN	5.5£	UN ND	73.33	6.26 6.26	I'I3	ND ND	QN 5'91	VN VN	66/67/£0 86/01/70	
IN IN	IN	QN 7000	QN CN	QN (C)	QN 07:0	QN CUI	dN dN	QN QN	VN	10/\$0/20	
IN	IN	0.2	ND	7.47	32.4	01.2	\$.11	7'57	VN	£0/8Z/10	
IN	TN	QN.	ON.	8.75	7.8	0.2	0.4	1.52	YN	\$0/05/00	S-WM
TN	ND ND	UN UN	ND ND	0.11	UD UD	QN QN	- AD - AD	0'11	AN	90/57/70	
JN.	TN	QN ON	QN QN	QN QN	QN	QN CN	QN QN	QN	VN	L0/67/\$0	
ND	ИD	ND	ИD	ND	MD	MD	ИD	ND	VN	80/60/60	
IN	MD	L'6	QN.	S.71	8.7	8.2	6'S	0.1	VN	60/52/20	
JN	ND NZ	60Þ	SN £'76	SN I£L'Z	SN #E#	SN #0I	078,1 SV	0.528 0.528	AN 68.1	66/67/£0 86/01/70	
SN SN	SN	SN SN	SN	SN	SN	SN	SN	SN	0.5<	10/\$0/L0	
SN	SN	SN	SN	SN	SN	SN	SN	SN	0.5<	E0/87/10	
SN	SN	SN	SN	SN	SN	SN	SN	SN	61.5	\$0/05/10	9-WM
SN SN	SN SN	SN SN	SN	SN SN	SN	SN SN	SN	SN SN	1.72	90/57/70	
SN	SN	SN	SN	SN	SN	SN	SN	SN	£9'0	L0/67/S0	
SN	SN	SN	SN	SN	SN	SN	SN	SN	0.42	80/60/60	
TIM	TM	_ dN	- UN	AD ÁI	ND D	ND	ND	MD	ΨN	66/\$1/60 60/£7/70	
TN	TM	1.02 ND	8'9 GN	54.5 ND	9'11	GN GN	GN.	13.9	ΨN	10/50/40	
IN	TN	0.8	3.2	2.01	0.4	an an	an	2.9	VN	£0/8Z/10	
IN	NT ND	ND ND	8.E	ND ND	ND ND	UD UD	QN QN	GN GN	AN	\$0/07/10	L-MJV
IN	QN.	ND (III)	αN	ИD	ND	dΝ	dΝ	MD	VN	90/1/70	
LN	TM	IN	TN	IN	IN	TN	IN	TN	VN	80/60/60	
IN IN	ES.0 TM	6'68 GN	ND 5.8	9'\$L	9'0t	I I I I	ND ND	4'0	VN VN	66/\$1/60 60/£Z/Z0	
IN	TN	dN dN	αN	αN	ИР	ŒΝ	ИD	dΝ	YN	10/50/20	
IN	IN	αN	ND	ΩN	ΩN	αN	dΝ	QN.	٧N	£0/87/10	
IN	UN.	ND ND	ON ND	AD UD	ND ND	IND IND	ND ND	ND ND	AN	\$0/07/10	8-WM
	QN	αN	ΠN	an	MD	dΝ	αN	dΝ	VΝ	90/57/70	
IN		ΔN	MD	ND	ND	ND	αN	ΔN	VN	L0/6Z/\$0	
TN	IN				JN	IN	IN	IN	VN	80/60/60	

TABLE 10

Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permir #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (μg/L)	Ethyl Benzene (μg/L)	Xylenes (μg/L)	Total BTEX (μg/L)	MTBE (µg/L)	Naphthalene (μg/L)	EDB (µg/L)	1,2-DCA (μg/L)
SC DH	EC RBSL	NA	5	1,000	700	10,000	_	40	25	0.05	5
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-9	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/02/04	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-11	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
MW-12	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09					D	ry				
	02/24/06	NA	100	ND	ND	110	210	ND	100	0.76	NT
MW-13	05/29/07	NA	160	ND	ND	199	359	ND	170	0.62	NT
1111-13	09/09/08	NA	77	ND	ND	101	178	ND	226	0.162	ND
	02/23/09	NA	23.5	ND	ND	46.2	69.7	ND	68.1	0.18	NT
	02/24/06	NA	160	34.0	480	620	1,294	ND	160	0.46	NT
MW-14	05/29/07	NA	220	ND	550	700	1,470	ND	2.50	0.26	NT
	09/09/08	NA	82.4	3.81	54.8	67.1	208.11	ND	75	0.118	ND
	02/23/09	NA	175	9.9	303	119.8	607.7	1.9	194	0.20	NT
	02/24/06	NA	100	8.0	25.0	160	293	ND	140	0.54	NT
MW-15	05/29/07	NA	190	12.0	21	240	463	ND	390	0.45	NT
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.13	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-17	02/23/09	0.79	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	0.45	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

yg/liter = micrograms/liter = approximate Parts Per Billion (ppb)
mg/liter = milligrams/liter = approximate Parts Per Million (ppm)
Bøld and shadded cells indicate concentrations above RBSL's
NA = Not Applicable
ND = Not Detected at the Method Detection Limit
NT = Not Tested
NS = Not Sampled due to the presence of free-product
NS = Not Sampled due to the presence of free-product
RBSL = Risk Based Screening Level
- Monitoring well NW-3 was damaged (object in well) prior to the 2/2/04 sampling event;
therefore no groundwater data is available. The well was abandoned on 12/5/05.

Lead (µg/L)	Silver (µg/L)	Chromium (Jug/L)	muinələ2 (A/34)	Cadmium ("tg/L)	Mercury (µg/L)	(J/ga) muinsa	Arsenic (µg/L)	Date Sampled	ll9W
SI	S	100	09	ç	7	5000	0\$	C KBSF	SC DHE
JN	TN	IN	IN	IN	IN	IN	TN	15/13/69	İ
0.14	IN	IN	IN	TN	IN IN	IN	TN	86/62/20	
TN TN	IN	TN	TN	TN	IN IN	IN	IN IN	10/\$0/L0 66/67/£0	1
QN IN	TN	IN	IN	TN	IN	LN	LN	£0/87/10	l
IN	TN	IN	TN	TN	LN	IN	IN	05/03/04	I-WM
IN	IN	TN	TN .	TN	IN IN	IN IN	TN	90/52/20	1
TN	IN	IN	IN	TN	LN	LN	IN	L0/67/90	-
T'SE	IN	IN	IN	TN	IN	IN	IN	80/60/60	
9.6	αN	£.11	ИD	ИD	dN.	LZZ	QN.	60/52/20	
IN	IN	IN IN	IN	IN	SN LN	SN IN	JN SN	96/81/71	1
SN	SN SN	SN SN	SN SN	SN SN	SN	SN	SN	66/67/E0 86/01/Z0	1
SN	SN	SN	SN	SN	SN	SN	SN	10/50/20	1
SN	SN	SN	SN	SN	SN	SN	SN	60/82/10	1
SN	SN	SN	SN	SN	SN	SN	SN	\$0/05/10	Z-WM
SN	IN SN	.I.N SN	N IN	IN SN	IN SN	IN SN	IN SN	90/£7/Z0 \$0/07/10	1
SN	SN	SN	SN	SN	SN	SN	SN	L0/67/50	
SN	SN	SN	SN	SN	SN	SN	SN	80/60/60]
SN	SN	SN	SN	SN	SN	SN	SN	60/52/20	
0.2£ QN	TN	TN	TN	IN IN	TN	TN	IN	66/67/E0 86/01/Z0	-
IN	LN	JN IN	IN	IN	IN	IN	LN	10/\$0/L0	
αN	TN	TN	IN	IN	IN	IN	IN	€0/87/10	1
IN	IN	.IN	IN	IN	IN	TN	IN	\$0/02/10 \$0/03/00	dr-wm
IN	TN	TN	IN	IN IN	TN	TN	IN	90/27/20	1
JN JN	LN	IN	IN	LN	TN	IN	LN	L0/67/S0	1
αN	LN	IN	IN	IN	TN	IN	LN	80/60/60	1
MD	ΩN	QN.	QN	- IN	IN ND	2.07	QN	60/57/20	
dN	TN	IN	TN	TN	TN	TN	TN	66/67/£0 86/01/70	1
LN LN	TN	IN	IN	.I.N	.I.N	J.N I.N	IN IN	10/50/20	1
LN	LN	IN	TN	LN	TN	IN	LN	£0/8Z/10	E-WM
LN	JN	IN	TN	LN	TN	IN	LN	10/05/10	1
LN	IN	IN	IN	Mell Ab	TN	IN	IN	90/52/20	1
IN	LN	LN	- IN	IN IN	IN	TN	IN	90/57/70	
LN	LN	LN	IN	IN	IN	TN	IN	L0/67/90	MW-3R
6.0€	IN	IN	IN	JN	IN	IN	LN	80/60/60	NC-1177
SN	SN	SN	SN	SN	SN	SN	SN	86/01/Z0 60/EZ/Z0	
0.11	IN		TN	I.N	IN	IN	IN	66/67/20	1
TN	LN	IN	TN	IN	LN	TN	IN	10/\$0/40	
dΝ	IN	IN	TN	IN	LN	IN	IN	01/28/03	1
LN	LN	LN	IN	IN	TN	IN	IN	\$0/05/10	t-WM
IN	LN	IN	J.N	IN	J.N	IN	IN	\$0/07/10	1
TN	LN LN	IN	I.N	IN IN	IN	IN	LN LN	20/67/50 90/57/70	-
SN	SN	SN	SN	SN	SN	SN	SN	80/60/60	
01:				Di	,			60/57/70	
0.85	IN	LN	IN	IN	IN	IN	IN	86/01/70	
0.0T	IN	LN	TN	LN	JN	IN	IN	66/67/20	1
IN	TN	IN	IN	IN	TN	TN	IN IN	£0/87/10 10/50/40	1
IN	IN IN	LN	IN	IN	LN	IN	IN	05/05/04	
IN	IN	JN	LN	IN	LN	LN	IN	\$0/07/10	s-ww
TN	TN	LN	TN	IN	LN	IN	IN	90/52/20	1
IN	IN	IN	IN	IN	LN	IN	TN	£0/60/60	1
an ND	IN	LN	UN	JN	IN	1N	IN IN	60/67/Z0 80/60/60	1
9.01 TM	IN IN	7.21	IN UN	IN IN	IN IN	TN	IN	86/01/70	ļ
SN	SN	SN	SN	SN	SN	SN	SN	66/67/20	4
SN	SN	SN	SN	SN	SN	SN	SN	10/50/20	
SN	SN	SN	SN	SN	SN	SN	SN	£0/87/10	1
SN	SN	SN SN	SN SN	SN SN	SN SN	SN SN	SN SN	\$0/07/10	9-MW
SN	SN SN	SN	SN	SN	SN	SN	SN	90/52/09	1
SN	SN	SN	SN	SN	SN	SN	SN	L0/67/\$0	1
SN	SN	SN	SN	SN	SN	SN	SN	80/60/60	1
	1 JEIN	T TIN	TN	I IN	IN	IN	IN	66/\$1/60 60/£Z/Z0	
0.8b TM	IN IN	TN	IN	IN	IN	IN	J.N	10/90/40	
αN	TN	TN	IN	IN	IN	IN	IN	£0/8Z/10	1
TN	IN	IN	TN	IN	IN	LN LN	IN IN	07/07/00	L-WM
TN	IN	TN	IN	TN	IN	I.N	IN	90/57/70	-
TN	TN	IN	IN	TN	IN	LN	TN	80/60/60	-
73'1	QN III	9.68	dΝ	αN	\$£.0	704	ŒΝ	05/23/09	
ИD	IN	IN	TN	IN	TN	LN	TN	66/\$1/60	1
TN	IN	TV	TN	TN	TN	IN	TN	10/50/40	1
- IN	TN	IN	IN	IN	IN	TN	IN	\$0/Z0/Z0	-
	IN	IN	IN	LN	IN	IN	IN	\$0/07/10	8-WM
IN		TN	TN	IN	IN	IN	IN	90/57/70	1
IN	IN			IN	JN	TN	LN	L0/6Z/S0	
	TN TN	TN	TN	IN	IN	IN	IN	80/60/60	

TABLE 11 Laboratory Analytical Results S-RCRA Metals Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929, Cost Agreement #34322 BLE Project No. J08-1010-13

Well	Date Sampled	Arsenic (μg/L)	Barium (µg/L)	Mercury (μg/L)	Cadmium (µg/L)	Selenium (µg/L)	Chromium (µg/L)	Silver (µg/L)	Lead (µg/L)
SC DI	IEC RBSL	50	2000	2	5	50	100	5	15
	02/03/04	NT	NT	NT	NT	NT	NT	NT	14.0
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
MW-9	02/23/06	NT	NT	NT	NT	NT	NT	NT	NT
MW-9	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	459
	02/23/09	114	5,410	1.2	55.0	64.0	1,720	ND	1,010
	02/02/04	NT	NT	NT	NT	NT	NT	NT	ND
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
1077.10	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
MW-10	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	420
	02/23/09	14.8	928	1.5	30.2	25.3	474	ND	328
	02/02/04	NT	NT	NT	NT	NT	NT	NT	5.0
	01/20/05	NT	NT	NT	NT	NT	NT	NT	NT
MW-11	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
MW-11	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	6.4	3,040	2.7	137	39.4	827	ND	1,180
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
MW-12	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
WW-12	09/09/08	NT	NT	NT	NT	NT	NT	NT	24.5
	02/23/09	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
	02/24/06	NT	NT	NT	NT	NT	NT	NT	NT
1 (111 10	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
MW-13	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	ND	52.9	0.82	ND	ND	ND	ND	ND
	2/24 2006	NT	NT	NT	NT	NT	NT	NT	NT
MW-14	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
MW-14	09/09/08	NT	NT	NT	NT	NT	NT	NT	ND
	02/23/09	5.7	902	ND	36.8	22.8	451	ND	251
	02/24/06	NT.	NT	NT	NT	NT	NT	NT	NT
1077.16	05/29/07	NT	NT	NT	NT	NT	NT	NT	NT
MW-15	09/09/08	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
MW-16	02/23/09	ND	82	1.5	ND	ND	21.7	ND	10.7
MW-17	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

In gifter = micrograms/liter = approximate Parts Per Billion (ppb)

In gifter = milligrams/liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSL's

A = Abandoned

AA = Not Applicable

IND = Not Detected at the Method Detection Limit

IT = Not Tested

INS = Not Sampled due to the presence of free-product

NS = Not Sampled due to the presence of free-product

RBSL = Risk Based Screening Level

* Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

TABLE 12

Laboratory Analytical Results
Polynuclear Aromatic Hydrocarbons-Oetected Compounds Only
Former Byder Truck Terminal
Greenville, South Carolina
UST Permit #11229; Cost Agreement AS4222
BLR Project No. J08-1010-13

TN						
	TN	LN	TN	IN	05/23/09	
TN	TN	LN	IN	IN	80/60/60	
IN	LN	IN	IN	IN	L0/67/50	
					05/24/06	
TN	IN	IN	IN	LN		
TN	TN	TN	IN	TN	\$0/02/10	8-WM
TN	IN	TN	TN	TN	05/05/04	
TN	LN	IN	TM	TN	01/28/03	
IN	IN	JN	IN	TN	10/\$0/40	
					66/\$1/60	
TN	JN	TN	IN	TN		
IN	LN	IN	IN	IN	60/52/20	
IN	IN	TN	TN	IN	80/60/60	
TN	IN	JN	TN	IN	90/57/20	
IN	IN	IN	IN		\$0/07/10	
				TN		L-WW
TN	TN	IN	IN	TN	05/05/04	
J.N.	IN	IN	IN	TN	60/82/10	
IN	IN	IN	IN	IN	10/50/20	
LN	IN	IN	TN	TN	66/\$1/60	
		Diy	u. (60/52/20	
01.T	011		0.7		80/60/60	
SN	SN	SN	SN	SN		
SN	SN	SN	SN	SN	L0/67/\$0	
SN	SN	SN	SN	SN	90/52/20	
SN	SN	SN	SN	SN	\$0/07/10	
					05/05/04	9-WM
SN	SN	SN	SN	SN		
SN	SN	SN	SN	SN	£0/8Z/10	
SN	SN	SN	SN	SN	10/\$0/40	
SN	SN	SN	SN	SN	66/67/60	
					86/01/70	
TM	IN	TN	TN	TN		
IN	JN	IN	IN	JN	60/23/00	
IN	TN	IN	TN	TN	80/60/60	
IN	LN	IN	IN	IN	L0/67/S0	
IN	TN	TN	IN	TN	90/53/20	
TN	TN	IN	TN	TN	01/50/05	C- 44 TP
TN	TN	TN	IN	TN	\$0/20/20	S-WW
					£0/8Z/10	
TN	TN	TN	TN	TM		
TN	JN	TN	IN	TN	10/\$0/L0	
TN	JN	TN	IN	TN	66/67/20	
TN	LN	LN	IN	IN	86/01/70	
		Du			60/53/00	
0.1			a 1			
SN	SN	SN	SN	SN	80/60/60	
IN	IN	IN	IN	IN	L0/6Z/S0	
LN	IN	IN	IN	IN	90/52/20	
LN	LN	IN	IN	TN	01/50/02	
					\$0/20/20	₽-WM
TN	LN	TN	TN	TN		
TM	IN	IN	IN	JN	£0/87/10	
TN	LN	IN	TN	IN	10/\$0/40	
	JN			LN	66/67/£0	
TN		TN	TN			
LN	LN	LN	IN	JN	86/01/70	
SN	SN	SN	SN	SN	60/52/20	
IN	JN	IN	IN	JN	80/60/60	
						AE-WM
IN	IN	TN	TN	TN	L0/67/S0	
4,000	0,67	ND	8.2	ND	90/81/80	
	p	Pell Abandone	1		90/52/70	
SN	SN	SN	SN	SN	01/50/02	
SN	SN	SN	SN	SN	\$0/20/Z0	
SN	SN	SN	SN	SN	£0/8Z/10	E-WM
SN	SN	SN	SN	SN	10/50/20	
SN	SN	SN	SN	SN	66/67/£0	
IN	IN	IN	LN	IN	86/01/70	
JN	TN	TN	LN	IN	60/27/70	
TN	IN	IN	IN	TN	80/60/60	
TN	LN	J.N	JLN	IN	L0/67/90	
IN	LN	IN	IN	IN	90/57/20	
IN	LN	TN			CO/07/10	
IN			LN	JN	\$0/07/10	dr-ww
	IN	TN	TN	JN	\$0/£0/Z0	dr-ww
IN	TM				\$0/£0/Z0 £0/8Z/10	dz-ww
IN	TM	TN	TN	JN	\$0/£0/Z0	dz-ww
TM	TM	TN TN TN	TN TN TN	TN TN	₹0/£0/Z0 £0/8Z/10 10/£0/L0	GZ-WW
TN TN TN	TN TN TN	TN TN TN	TN TN TN	TN TN TN	\$0/£0/Z0 £0/8Z/10 10/\$0/L0 66/6Z/£0	dz-ww
TN TN TN	TN TN TN	IN IN IN IN	TN TN TN TN	TN TN TN TN	\$0/£0/Z0 £0/8Z/10 10/\$0/L0 66/6Z/£0 86/01/Z0	dz-ww
TN TN TN TN	IN IN TN TN	IN IN IN IN IN SN	IN IN IN IN SN	IN IN IN IN SN	\$0/87/10 10/50/L0 66/67/E0 86/01/70 60/E7/70	GZ-MA
TN TN TN	TN TN TN	IN IN IN IN	TN TN TN TN	TN TN TN TN	\$0/£0/Z0 £0/8Z/10 10/\$0/L0 66/6Z/£0 86/01/Z0	GZ-MIN
SN TN TN TN TN	IN IN TN TN	IN IN IN IN IN SN SN	IN IN IN IN SN SN	IN IN IN IN SN SN	\$0/87/10 10/50/L0 66/67/E0 86/01/70 60/E7/70	GZ-MM
SN SN SN TN TN TN	IN IN IN IN IN IN IN IN IN IN IN IN IN I	SN SN	SN SN TN TN TN TN TN	SN SN TN TN TN TN	#0/E0/Z0 F0/RZ/10 10/S0/L0 66/6Z/E0 86/01/Z0 60/EZ/Z0 80/60/60 L0/6Z/S0	GZ-MM
TN TN TN TN TN TN TN TN TN TN TN TN TN T	226 SW SW TW TW TW	IN IN IN IN IN IN SN SN SN SN SN O'6†	IN IN IN IN SN SN SN SN SN O67	IN	#0/E0/Z0 E0/RZ/10 10/S0/L0 66/6Z/E0 86/01/Z0 60/EZ/Z0 80/60/60 L0/6Z/S0 90/E1/E0	dz-ww
LN LN LN LN LN LN LN LN LN LN LN LN LN L	200 200 200 200 200 200 200 200 200 200	IN IN IN IN IN IN IN SN SN SN SN SN SN SN	IN IN IN IN IN SN SN SN SN SN SN	IN IN IN IN IN IN SN SN SN SN O'FI SN	\$0/£0/Z0 £0/87/10 10/50/Z0 66/67/£0 86/01/Z0 60/£7/Z0 80/60/60 £0/67/50 90/£1/£0 50/02/10	
TN TN TN TN SN SN SN SN SN SN SN SN SN SN SN SN SN	226 SW SW TW TW TW	IN IN IN IN IN IN SN SN SN SN SN O'6†	IN IN IN IN SN SN SN SN SN O67	IN	#0/E0/Z0 E0/RZ/10 10/S0/L0 66/6Z/E0 86/01/Z0 60/EZ/Z0 80/60/60 L0/6Z/S0 90/E1/E0	GZ-MW-2D
LN LN LN LN LN LN LN LN LN LN LN LN LN L	200 SW SW SW SW SW SW SW SW SW SW SW SW SW	IN IN IN IN IN IN IN SN SN SN SN SN SN SN	IN IN IN IN IN SN SN SN SN SN SN	IN IN IN IN IN IN SN SN SN SN O'FI SN	\$0/£0/Z0 £0/87/10 10/50/Z0 66/67/£0 86/01/Z0 60/£7/Z0 80/60/60 £0/67/50 90/£1/£0 50/02/10	
N	IN	IN IN IN IN IN IN SN SN SN SN SN SN SN SN SN SN SN SN SN	IN	IN IN IN IN IN IN IN SN SN SN SN SN SN SN SN SN	#0/E0/Z0 E0/8Z/10 10/50/L0 66/6Z/E0 86/01/Z0 60/EZ/Z0 80/60/60 L0/6Z/S0 90/E1/E0 50/0Z/10 #0/Z0/Z0 E0/8Z/10	
IN IN IN IN IN IN IN IN IN IN IN IN IN I	IN IN IN IN IN SN SN SN OTE SN SN SN SN SN	IN IN IN IN IN IN SN SN SN O667 SN SN SN	IN IN IN IN IN IN IN SN SN O 62 SN SN SN SN SN	IN IN IN IN IN IN IN SN SN SN O'FI SN SN SN SN	#0/£0/Z0 £0/87/10 10/50/L0 66/67/£0 86/01/Z0 60/£7/20 80/60/60 £0/67/50 90/£1/£0 50/07/10 ±0/720/Z0 £0/87/10 £0/87	
IN IN IN IN IN IN IN IN IN IN IN IN IN I	IN	IN IN IN IN IN IN IN SN SN SN SN SN SN SN SN SN SN SN SN SN	IN	IN IN IN IN IN IN IN IN SN SN SN O†I SN SN SN SN SN SN	#0/E0/Z0 50/87/10 10/50/L0 66/67/E0 86/01/Z0 60/67/E0 80/60/60 L0/67/E0 90/E1/E0 50/02/10 #0/70/Z0 E0/82/10 10/50/L0 66/67/E0	
IN IN IN IN IN IN IN IN IN IN IN IN IN I	IN IN IN IN IN SN SN SN OTE SN SN SN SN SN	IN IN IN IN IN IN SN SN SN O667 SN SN SN	IN IN IN IN IN IN IN SN SN O 62 SN SN SN SN SN	IN IN IN IN IN IN IN SN SN SN O'FI SN SN SN SN	#0/£0/Z0 £0/87/10 10/50/L0 66/67/£0 86/01/Z0 60/£7/20 80/60/60 £0/67/50 90/£1/£0 50/07/10 ±0/720/Z0 £0/87/10 £0/87	
IN IN IN IN IN IN IN IN IN IN IN IN IN I	IN	IN IN IN IN IN IN SN SN SN SN SN SN SN SN SN SN SN SN SN	IN IN IN IN IN IN SN	IN IN IN IN IN IN IN SN SN SN SN SN SN SN SN SN SN SN SN SN	PO/E0/Z0 50/87/10 10/50/L0 66/67/E0 86/01/Z0 80/01/Z0 80/60/50 L0/67/S0 90/E1/E0 50/90/E1/E0 50/90/E1/E0 60/87/10 10/50/L0 86/67/E0 86/01/Z0	
TN TN TN SN SN SN SN SN SN SN	IN IN IN IN IN SN SN OVE SN SN SN SN SN SN SN SN SN SN SN	IN IN IN IN IN IN IN SN SN SN SN SN SN SN SN SN SN SN SN SN	IN IN IN IN IN IN SN IN IN	IN IN IN IN IN IN IN SN SN O'TI SN SN SN SN SN SN SN SN SN SN SN SN IN	PO/E0/Z0 FD/87/10 FD/87/10 FD/87/10 66/67/E0 86/01/Z0 80/60/60 L0/67/50 90/E1/FD 50/07/10 FD/87/10 FD/	
TM TM TM TM TM TM TM TM TM TM TM TM TM T	IN IN IN IN IN IN SN SN SN OFF SN SN SN SN SN SN SN SN IN IN	IN IN IN IN IN IN IN IN SN IN IN IN IN IN	IN IN IN IN IN IN IN SN IN IN IN IN IN IN IN SN IN /ED/ZO FO/RZ/10 10/50/L0 66/6Z/E0 86/01/Z0 80/60/FC 80/6Z/Z0 80/60/60 L0/6Z/S0 90/E1/E0 50/0Z/10 PO/Z0/Z0 E0/8Z/10 10/50/L0 66/6Z/E0 86/01/Z0 96/E1/Z1 60/EZ/Z0			
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TABLE 12

Laboratory Analytical Results Polynuclear Aromatic Hydrocarbons-Detected Compounds Only Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #34322 BLE Project No. J08-1010-13

Well	Date Sampled	Acenaphthene (μg/L)	Fluorenc (µg/L)	Phenanthrene (µg/L)	Naphthalene (μg/L)	TPH (DRO (µg/L)
SC DE	EC RBSL	10	10	10	25	NE
	02/03/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
MW-9	02/23/06	NT	NT	NT	NT	NT
MW-9	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
	02/24/06	NT	NT	NT	NT	NT
MW-10	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	02/02/04	NT	NT	NT	NT	NT
	01/20/05	NT	NT	NT	NT	NT
MW-11	02/24/06	NT	NT	NT	NT	NT
MW-11	05/29/07	NT	NT	NT	NT	NT
	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	03/13/06	ND	ND	ND	ND	220
MW-12	05/29/07	NT	NT	NT	NT	NT
WW-12	09/09/08	NT	NT	NT	NT	NT
	02/23/09			Dry		
	03/13/06	5.0	8.6	8.7	160	7,500
MW-13	05/29/07	NT	NT	NT	NT	NT
MW-13	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	03/13/06	ND	ND	ND	59.0	4,000
MW-14	05/29/07	NT	NT	NT	NT	NT
MIW-14	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT
	03/13/06	ND	7.4	6.7	230	5,200
MW-15	05/29/07	NT	NT	NT	NT	NT
MW-15	09/09/08	NT	NT	NT	NT	NT
	02/23/09	NS	NS	NS	NS	NS
MW-16	02/23/09	NT	NT	NT	NT	NT
MW-17	02/23/09	NS	NS	NS	NS	NS
MW-18	02/23/09	NS	NS	NS	NS	NS

Notes:

µg/liter = nsicrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milligrams/liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSL's

A = Abandoned

NA = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled due to the presence of free-product

NE = RBSL has not been established

RBSL = Risk Band Serenting Level

* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event, therefore no groundwater data is available. The well was abandoned on 12/5/05.



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

SEP 3 0 2009

MR ALLEN VAUGHN ESTATE OF ROBERT VAUGHN 4 E PARKER RD GREENVILLE SC 29611-3504

Monitoring well replacement and Groundwater Sampling Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929; CA # 36308; MWA# UMW-22858 Release #2 reported February 25, 1997 Assessment Report received May 14, 2009 Greenville County

Dear Mr. Vaughn:

Re:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the file and the next necessary scope of work is to replace monitoring wells MW-4, MW-6, and MW-12 since they were dry during the last sampling event. A comprehensive groundwater sampling event should be completed to obtain current data. Samples from all monitoring wells should be collected and analyzed for BTEX, naphthalene, MTBE, 1,2 DCA, and 8 Oxygenates by EPA method 8260B, and EDB by EPA Method 8011, 8 RCRA metals (please filter the samples), lead by EPA method 6010, Nitrates, Sulfates, and Ferrous Iron. Purging will not be required for existing monitoring wells where the water table is bracketed by the screen. Please have your contractor request low detection limits/reporting levels for all analyses. The use of "J" values is encouraged. Note that a non-detect analysis where the detection limit/reporting level exceeds the risk-based screening level (RBSL) is inconclusive. In this case, SUPERB payment may be denied since the analysis cannot be used as the basis for a decision.

In 2009 the UST Division will begin requiring that laboratories be certified through the SCDHEC Office of Environmental Laboratory Certification for the oxygenate compounds. The UST Division required that laboratories submit the application for certification no later than December 31, 2008. Beginning May 1, 2009, the UST Division will no longer reimburse costs for oxygenate analysis for any laboratory that is not certified. Detailed information regarding the oxygenate certification can be found on the UST Guidance Documents webpage. (http://www.scdhec.gov/environment/envserv/docs/OxygenateCertification.pdf. The document can also be accessed from the UST documents page at http://www.scdhec.net/environment/lwm/forms/). Any laboratory with questions regarding the certification requirements, should contact the Office of Environmental Laboratory Certification at (803) 896-0970.

Cost Agreement # 36308 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The monitoring well installation and groundwater sampling activities may proceed immediately upon receipt of this letter. The Assessment Report submitted at the completion of these activities should include the following:

• A narrative portion documenting current site conditions during the groundwater sampling event noting the names of field personnel, date, time, ambient air temperature, and general weather conditions during the sampling event. The report shall also contain well purging data, pH, specific conductivity, water temperature, PID readings (where applicable) and turbuity

comments.

- Groundwater elevations, depth to groundwater, measurable free product thickness (where applicable), total well depth and screened interval for all monitoring wells associated with the site, unless otherwise directed by the Program, shall be presented in tabular form. Historical and current groundwater laboratory analytical data for all monitoring wells shall be presented in tabular format.
- A groundwater elevation contour map of the site based on current groundwater potentiometric data.
- A CoC map based on current groundwater laboratory analytical data. The groundwater data should be adjacent to the relevant monitoring well location.
- Manifests for any contaminated soil and/or groundwater removed from the site for treatment and/or disposal.
- Signature and seal by a professional geologist or engineer registered in the State of South Carolina.
- Boring logs and 1903 forms

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An Assessment report and invoice are due within 90 days from the date of this letter. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Department grants pre-approval for transportation of virgin petroleum impacted groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence or inquiries regarding this project, please reference **UST Permit** # 11929. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

shance,

Corrective Action Section
UST Management Division

UST Management Division

Bureau of Land and Waste Management

enc:

Cost Agreement

Monitoring well approval

cc:

Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc)

Technical File (w/enc)



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

Monitoring Well Approval

Approval is hereby granted to: BLE, Inc.

(On behalf of): Mr. Allen Vaughn

Facility: Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit Number: 11929

County: Greenville

This approval is for the installation of three groundwater monitoring wells. The monitoring wells are to be installed in the approved locations. Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

- 1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
- 2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
- 3. A Water Well Record Form or other form provided or approved by the Department shall be completed and submitted to the Department within 30 days after well completion or abandonment unless another schedule has been approved by the Department. The form should contain the "asbuilt" construction details and all other information required by R.61-71.H.1.f
- 4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Department within 30 days of receipt of laboratory results unless another schedule has been approved by the Department as required by R.61-71.H.1.d.
- 5. If any of the information provided to the Department changes, notification to the Stephanie Briney (tel: 803-896-6323 or e-mail: brineysm@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
- 6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
- 7. Departmental approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance:

May 21 2009

Approval #:

UMW-22858

Stephanie Briney, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

Approved Cost Agreement 36308

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	A EQUIPMENT	1.0000	575.00	575.00
	B PERSONNEL	4.0000	290.00	1,160.00
09 WELL INSTALLATION				
	B WATER TABLE (DRILLED)	105.0000	38.00	3,990.00
10 SAMPLE COLLECTION				
	A GROUND WATER	4.0000	55.00	220.00
· ·	D GROUNDWATER NO-PURGE	15.0000	35.00	525.00
11 ANALYSES				
GW GROUNDWATER	A DTEVINADIUMTDE	40.0000	100.00	
	A BTEX+NAPTH+MTBE BB 1,2-DCA	19.0000	100.00	1,900.00
	E LEAD	19.0000	10.75	204.25
	F EDB	19.0000 19.0000	20.00	380.00
	G GW 8 RCRA METALS	19.0000	55.00 140.00	1,045.00
	K NITRATE	19.0000	20.00	2,660.00 380.00
	L SULFATE	19.0000	20.00	380.00
	M FERROUS IRON	19.0000	20.00	380.00
	P 8 OXYGENATES	19.0000	85.00	1,615.00
6 SUBSEQUENT SURVEY	O ON OLIVINEO	13.0000	00.00	1,015.00
	SUBSEQUENT SURVEY	1.0000	260.00	260.00
7 DISPOSAL			1.	· ·
en en en en en en en en en en en en en e	A1 WASTEWATER - PURGING/SAMPLING	3.0000	90.00	270.00
	C SOIL (TREATMENT/DISPOSAL)	15.0000	50.00	750.00
9 RPT/PROJECT MNGT & COORDINATIO			had Tyrrejsje	
Assistance of the second secon	PCT PERCENT	0.1500	16,694.25	2,504.14
		Total Amoun	ıt (AS)	19,198.39

September 29, 2009 Page 1 of 1 suprcait.rdf Rev: 1.12



REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT

Former Ryder Truck Terminal
10 Woods Lake Drive
Greenville, South Carolina
UST Permit # 11929; Cost Agreement # 36308

Prepared For

The Estate of Robert B. Vaughn
4 East Parker Road
Greenville, South Carolina 29611-3504

Prepared By

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-010

February 17, 2010

BLE Project Number J09-1010-14



February 17, 2010

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull St.

Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney

Hydrogeologist

Subject: Report of Comprehensive Groundwater Sampling Event

Former Ryder Truck Terminal Greenville, Greenville County UST Permit #11929; CA #36308 BLE Project No. J09-1010-14

Dear Ms. Briney:

On behalf of the Estate of Robert B. Vaughn, Bunnell-Lammons Engineering, Inc. (BLE) has conducted a site-wide groundwater sampling at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated September 30, 2009. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

In prior years, the site was operated as an automotive repair and body shop (Taylor's Automotive) and was also used by Ryder Truck Rental, Inc. as a truck maintenance and refueling terminal. Recently, the site was used by European Automotive as a foreign automotive repair shop. Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC,

6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE (864) 288-1265 FAX (864) 288-4430



Report of Comprehensive Groundwater Sampling Event Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #36308

the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004, 2006, 2007, 2008, and 2009 by BLE to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events. In accordance with a September 30, 2009 directive letter from SCDHEC, a comprehensive groundwater sampling event was required to be performed at the site in order to evaluate the effectiveness of the previous AFVR events and to compare the sample results with prior year's data. This report presents the results of our activities.

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are on-site, and three wells (MW-7, MW-8, and MW-11) are off-site.

Groundwater levels in the monitoring wells were measured on November 23, 2009 (Table 1). A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer is shown on Figure 2.

Groundwater samples were collected from thirteen (MW-1, MW-2, MW-2D, MW-5, MW-7 through MW-14, and MW-16) of the nineteen monitoring wells on November 23 through 24, 2009. Monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 were not sampled due to the presence of free-phase product in the wells. Groundwater samples from the thirteen wells that were sampled were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tertiary-butyl-ether (MTBE), 1,2-dichloroethane (1,2-DCA), and 8-oxygenates by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011, 8-RCRA metals (dissolved) by EPA 6000/7000 series methods, total lead by EPA Method 6010, nitrates by EPA method 353.2, sulfates by EPA method SW 9056A, and ferrous iron by EPA method 3500-Fe-D.

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling. Therefore, only monitoring well MW-2D was purged prior to sample collection. Monitoring well purging and sampling procedures



Report of Comprehensive Groundwater Sampling Event Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #36308

are described in Appendix A. The samples were shipped via overnight courier to Pace Analytical Services, Inc. (Pace) in Huntersville, North Carolina for analysis (SC Certification #990060001). The monitoring well sampling logs are in Appendix A.

Purge water generated during the groundwater sampling event was contained in a 55-gallon drum. These wastes were transported off site for disposal. Waste transportation and disposal records are in Appendix B.

LABORATORY RESULTS

Petroleum free-product was encountered in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. Laboratory analyses detected various concentrations of chemicals of concern (CoC) in monitoring wells MW-2, MW-2D, MW-5, MW-10, and MW-12 through MW-14. Benzene, naphthalene, and EDB (MW-2, MW-13 and MW-14) were the only CoCs detected at concentrations exceeding South Carolina Risk-Based Screening Levels (RBSLs). Additionally, various concentrations of dissolved 8-RCRA metals and/or total lead were detected in each of the sampled monitoring wells; however, only total lead (MW-11) and dissolved lead (MW-10 and MW-11) were detected at concentrations exceeding RBSLs. Laboratory analytical results for each well are shown on Figure 3. Historical laboratory data is summarized on Tables 2 through Table 5. Laboratory data sheets are provided in Appendix C.

CONCLUSIONS AND RECOMMENDATIONS

- Groundwater flow and contaminant transport is to the south/southeast from the UST system release. The depth to groundwater in the unconfined aquifer ranges from 23.01 feet (MW-8) below ground surface to 27.06 feet (MW-1) below ground surface across the study area.
- Free-phase petroleum product was present in monitoring wells MW-3R (0.04 feet), MW-4 (0.47 feet), MW-6 (3.10 feet), MW-15 (0.90 feet), MW-17 (2.31 feet), and MW-18 (0.11 feet).

February 17, 2010 BLE Project No. J09-1010-14

BLE

Report of Comprehensive Groundwater Sampling Event Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #36308

 During the November 23-24, 2009 sampling event, detected constituents that exceed RBSLs are benzene, naphthalene, and EDB (MW-2, MW-13, and MW-14), total lead (MW-11), and dissolved lead (MW-10 and MW-11).

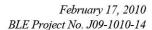
 Various metals concentrations were detected in each monitoring well; however, only total lead (MW-11) and dissolved lead (MW-10 and MW-11) were detected above its respective RBSL of 15 µg/L.

Since free-product is present at moderate to significant thicknesses in MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18, we recommend that a series of AFVR events be conducted at the site. After a minimum of 30 days from the final AFVR event, we recommend a comprehensive groundwater sampling event be performed on all wells associated with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Robert B. Vaughn. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.





Report of Comprehensive Groundwater Sampling Event Former Ryder Truck Terminal SCDHEC UST Permit # 11929; CA #36308

CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING, JNCJ. 86

No.
Trevor J. Benton, P.G.
Project Hydrogeologist
Registered, South Carolina No. 23958 ONAL GEO

No.
Senior Hydrogeologist
Registered, South Carolina No. 1111 TS PROJECT OF THE

cc: Mr. Allen Vaughn, For the Estate of Robert B. Vaughn, 4 East Parker Rd., Greenville, SC 29611



TABLE 1

MONITORING WELL AND GROUNDWATER ELEVATION DATA

Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #36308 BLE Project No. J09-1010-14

Boring ID#	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	Free Product Thickness	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	27.06	NA	24.85	73.64	31.0	21.0 - 31.0	77.5 - 67.5
MW-2	100.10	100.54	25.21	NA	25.65	74.89	30.0	20.0 - 30.0	80.5 - 70.5
MW-2D	99.29	99.76	26.46	NA	26.94	72.83	54.5	49.5 - 54.5	50.3 - 45.3
MW-3					Well abando	ned December 5,	2005		
MW-3R*	99.00	99.57	25.09	0.04	25.66	73.91	32.4	22.2 - 32.2	77.4 - 67.4
MW-4*	102.67	102.91	24.49	0.47	24.73	78.18	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	23.96	NA	24.20	77.52	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	26.29	3.10	26.67	75.45	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	26.38	NA	26.68	66.29	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	23.01	NA	23.12	65.75	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	23.55	NA	23.94	78.71	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	23.60	NA	23.60	81.07	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	24.66	NA	24.92	76.00	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	26.59	NA	26.89	74.79	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	24.18	NA	24.51	74.44	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	23.94	NA	24.47	75.36	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	24.27	0.90	24.46	76.12	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	24.10	NA	24.39	78.64	34.4	24.2 - 34.2	78.8 - 68.8
MW-17*	102.09	102.49	25.22	2.31	25.62	76.87	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	25.37	0.11	25.72	75.02	35.6	25.4 - 35.4	75.3 - 65.3

Groundwater levels were measured on November 23, 2009.

Measurements are in feet; elevations are relative to an arbitrary site datum.

* = Groundwater depth data for MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 has been corrected for the presence of free-product thickness using a density of 0.70 g/cc.

btoc = below top of casing bgs = below ground surface

FP = Free-Product

NA = Not Applicable.

Prepared By: IAI Checked By: TZS

Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville. South Carolina UST Permit #11929: Cost Agreement #36308 BLE Project No. J09-1010-14 Boring ID

Well					Boring	ID#			-		
	Date Sampled	Free Product Thickness	Benzene	Toluene	Ethylbenzene	Xylenes	Total BTEX	MTBE	Naphthalene	EDB	1,2-DCA
SC DH	EC RBSL	NA	(µg/L)	(µg/L) 1,000	(µg/L) 700	(µg/L) 10,000	(µg/L)	(µg/L)	(µg/L)	(µg/L) 0.05	(µg/L)
Sec Di	12/13/96	NA	20.6	1.74	2.61	6,4	31.35	ND	ND	NT	NT
	02/10/98	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	03/29/99	NA	2.6	ND	ND	ND	2.6	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-1	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05 02/23/06	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT
	05/29/07	NA NA	ND	ND	ND	ND	ND	ND.	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	0.028	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	< 0.020	<5.0
	12/13/96	NA	249	22.5	43.5	363	678	11.1	900	NT	NT
	02/10/98	0.7	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/29/99 07/05/01	1.25	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	01/28/03	1.92	NS	NS	NS	NS NS	NS	NS	NS	NS	NS
1000	02/02/04	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	01/20/05	0.23	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA	120	ND	6.8	170	296.8	ND	240	0.33	NT
	05/29/07	0.26	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.02 NA	NS 25.6	NS <5.0	NS <5.0	NS 41.1J	NS 66.7	NS <5.0	NS 53.3	NS 0.061	NS <5.0
	02/10/98	NA NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	3.7	ND	NT	NT
MW-2D	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA NA	ND	ND	ND ND	ND ND	ND	ND ND	ND ND	NT	NT
	09/09/08 02/23/09	NA NA	ND 1.1	ND ND	ND ND	ND ND	ND 1.1	ND ND	ND ND	ND ND	ND NT
	11/23/09	NA NA	1.2J	<5.0	<5.0	<10.0	1.23	<5.0	<5.0	<0.020	<5.0
	02/10/98	NA	62.5	6.4	19.3	193	281.2	ND	106	ND	NT
	03/29/99	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
	07/05/01	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	01/28/03	0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05 02/23/06	NA	NS	NS	NS	NS onitoring Well A	NS	NS	NS	NS	NS
	02/24/06	NA	40.0	ND	ND A	81.0	121	ND	120	0.90	NT
	05/29/07	NA NA	48.0	ND	ND	109.0	157	ND	140	0.51	NT
MW-3R	09/09/08	NA	23.2	ND	ND	17.7	40.9	ND	63.2	0.44	ND
	02/23/09	0.6	NS	NS	NS	NS	NS	NS-	NS	NS	NS
	11/23/09	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/10/98	NA	2.2	ND	1.73	150	153.93	ND	186	ND	NT
	03/29/99	NA	ND	ND	ND	10.6	10.6	ND	26.2	NT	NT
	07/05/01 01/28/03	NA NA	ND ND	ND ND	ND ND	21.5 ND	21,5 ND	ND ND	49.6 ND	NT NT	NT NT
	02/02/04		ND	ND	ND	ND	ND	ND	ND ND	NT	NT
MW-4		NA NA		600000		ND	ND		ND	-	NT
MW-4	01/20/05 02/23/06	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT
MW-4	01/20/05	NA	ND	ND	ND			ND		ND	
MW-4	01/20/05 02/23/06	NA NA	ND ND	ND ND	ND ND	ND	ND	ND ND	ND	ND ND	NT
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09	NA NA NA 0.96	ND ND ND NS	ND ND ND NS	ND ND ND NS	ND ND NS Dry	ND ND NS	ND ND ND NS	ND ND NS	ND ND NT NS	NT NT NS
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09	NA NA NA 0.96	ND ND ND NS	ND ND ND NS	ND ND ND NS	ND ND NS Dry	ND ND NS	ND ND ND NS	ND ND NS	ND ND NT NS	NT NT NS
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 02/10/98	NA NA NA 0.96	ND ND ND NS NS	ND ND ND NS	ND ND ND NS	ND ND NS Dry NS 6.83	ND ND NS NS	ND ND ND NS NS	ND ND NS NS	ND ND NT NS	NT NT NS NS
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99	NA NA NA 0.96 0.47 NA NA	ND ND ND NS NS NS	ND ND ND NS NS	ND ND ND NS NS	ND ND NS Dry NS 6.83 6.26	ND ND NS NS 23.33 7.39	ND ND ND NS NS NS	ND ND NS NS 33.3 50.2	ND ND NT NS NS NS ND NT	NT NT NS NS NT NT
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 02/10/98	NA NA NA 0.96 0.47 NA NA	ND ND ND NS NS	ND ND ND NS NS NS NS ND ND ND ND	ND ND ND NS	ND ND NS Dry NS 6.83	ND ND NS NS	ND ND ND NS NS	ND ND NS NS 33.3 50.2 ND	ND ND NT NS	NT NT NS NS
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01	NA NA NA 0.96 0.47 NA NA	ND ND ND NS NS NS NS NS NS 16.5 ND ND	ND ND ND NS NS	ND ND ND NS NS NS ND 1.13 ND	ND ND NS Dry NS 6.83 6.26 ND	ND ND NS NS 23.33 7.39 ND	ND ND NS NS ND ND ND ND ND	ND ND NS NS 33.3 50.2	ND ND NT NS NS NS ND NT NT	NT NT NS NS NT NT
MW-4	01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05	NA NA NA 0.96 0.47 NA NA NA NA NA	ND ND ND NS NS NS 16.5 ND ND ND	ND ND ND NS NS NS ND ND ND ND ND ND ND	ND ND ND NS NS ND 1.13 ND 5.10	ND ND NS Dry NS 6.83 6.26 ND 32.4	ND ND NS NS 23.33 7.39 ND 74.2	ND ND ND NS NS NS NS ND ND ND ND ND ND	ND ND NS NS 33.3 50.2 ND 5.0	ND ND NT NS NS NS ND NT NT NT	NT NT NS NS NS NT NT NT NT NT
Applications	01/20/05 02/23/06 05/29/07 06/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06	NA NA NA 0.96 0.47 NA NA NA NA NA	ND ND ND NS NS 16.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND NS NS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND NS NS ND 1.13 ND 5.10 2.0 ND ND ND ND	ND ND NS Dry NS 6.83 6.26 ND 32.4 8.7 ND ND ND	ND ND NS NS 23.33 7.39 ND 74.2 11.0 ND ND	ND ND ND NS NS NS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND NS NS 33.3 50.2 ND 5.0 ND ND ND ND ND	ND ND NT NS ND NT NT NT NT NT ND ND ND	NT NT NS NS NS NT NT NT NT NT NT NT NT NT
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MW-5	01/20/05 02/23/06 05/23/07 09/09/08 02/23/09 02/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/23/07 09/09/08 02/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04	NA NA NA NA NA NA NA NA NA NA NA NA NA N	ND ND ND NS NS 16.5 NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS NS NS NS NS NS NS ND NS NS NS NS NS NS NS NS NS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND NS NS NS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND NS Dry NS As a case of the case of t	ND ND NS NS 23.33 7.39 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND NS NS NS NS NS NS NS NS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NT NS NS NS ND NT NT NT NT NT NT NT NT ND ND ND ND ND ND ND ND ND ND ND ND ND	NT NT NT NT NT NT NT NT NT NT NT NT NT N
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MW-5	01/20/05 02/23/06 05/23/07 09/09/08 02/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 03/29/09 07/05/01 01/28/03 02/23/06 05/29/07 09/09/08 03/29/09 07/05/01 01/28/03 02/23/09 02/23/09 03/29/29 03/29/09 03/29/	NA NA NA NA NA NA NA NA NA NA NA NA NA N	ND ND ND NS NS 16.5 NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS ND ND	ND ND NS DTY NS NS 6.83 6.26 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND ND ND ND ND ND ND ND ND NS NS NS NS NS NS NS NS NS	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NT NS NS NS ND NT NT NT NT NT NT NT ND ND ND NS NS NS NS NS NS	NT NT NT NS NS NS NS NS NS NS NS
MW-5	01/20/05 02/23/06 05/29/07 05/29/07 05/09/05/07 05/09/05/07 07/05/01 01/28/03 02/02/04 01/20/05 02/23/09 02/02/04 01/23/09 02/02/04 01/23/09 02/02/04 01/23/09 02/02/04 01/23/09 02/02/04 01/23/09 02/02/04 01/23/09 02/23/06	NA NA NA NA NA NA NA NA NA NA NA NA NA N	ND ND ND NS NS 16.5 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS NS NS	ND ND ND NS Dry NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND ND ND ND ND ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND NT NT NT NT NT ND ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	NT NT NT NS NS NS NS NS NS NS NS NS
MW-5	01/20/05 02/23/06 05/23/07 09/09/08 02/23/09 02/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/06 01/23/09 02/23/06 05/29/07 07/05/01 01/23/09 02/23/06 05/29/07 07/05/01 01/23/09 02/23/06 05/29/07 07/05/01 01/23/09 02/23/06 05/29/07 07/05/01 01/23/03 02/23/06 05/29/07 02/23/06 05/29/07 02/23/06	NA NA NA NA NA NA NA NA NA NA NA NA NA N	ND ND ND NS NS 16.5 NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS ND ND	ND ND NS DT NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND NS NS 23.33 7.39 ND 74.2 37.8 11.0 ND ND ND ND ND ND ND ND ND ND ND ND NS NS NS NS NS NS NS NS NS	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NT NS NS NS ND NT NT NT NT NT NT NT ND ND ND NS NS NS NS NS NS	NT NT NT NS NS NS NS NS NS NS NS
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MW-5	01/20/05 02/23/06 05/23/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/09 11/23/09 02/23/06 05/29/07 05/05/01 01/28/03 02/02/04	NA NA NA NA 0.96 0.47 NA NA NA NA NA NA NA NA NA NA NA NA NA	ND ND ND NS NS NS NS NS	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ND ND ND ND ND ND ND ND	ND ND NS Dry NS 6.83 6.26 ND ND ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS 23.33 7.39 ND ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND ND ND ND ND ND ND ND NS NS NS NS NS NS NS NS NS NS NS NS NS	ND ND ND NS NS NS NS NS NS NS NS NS NS ND ND ND ND ND ND ND ND ND ND ND ND ND	ND ND ND NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT NT NT NT NT NT NT NT NT NT NT NT N
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TABLE 2

Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenitle, South Carolina UST Permit #11929; Cost Agreement #36308 BLE Project No. J99-1010-14 Boring ID

Well	Date Sampled	Free Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DC/ (µg/L)
SC DH	EC RBSL	NA	5	1,000	700	10,000		40	25	0.05	5
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-9	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	< 0.020	<5.0
	02/02/04	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-10	05/29/07	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	5.4J	5.4J	<5.0	<5.0	< 0.020	<5.0
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-11	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND.	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	< 0.020	<5.0
	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
MW-12	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
	02/23/09				-	Dry	-				
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	14.0	<5.0	< 0.02	<5.0
	02/24/06	NA	100	ND	ND	110	210	ND	100	0.76	NT
	05/29/07	NA	160	ND	ND	199	359	ND	170	0.62	NT
MW-13	09/09/08	NA	77	ND	ND	101	178	ND	226	0.162	ND
	02/23/09	NA	23.5	ND	ND	46.2	69.7	ND	68.1	0.18	NT
	11/23/09	NA	23.6	<5.0	<5.0	69.4	93.0	<5.0	58.4	0.46	<5.0
	02/24/06	NA	160	34.0	480	620	1,294	ND	160	0.46	NT
	05/29/07	NA	220	ND	550	700	1,470	ND	250	0.26	NT
MW-14	09/09/08	NA	82.4	3.81	54.8	67.1	208.11	ND	75	0.118	ND
	02/23/09	NA	175	9.9	303	119.8	607.7	1.9	194	0.20	NT
	11/23/09	NA	150	10.5	263	93.8J	517.3	<10.0	81.5	0.084	<10.0
	02/24/06	NA	100	8.0	25.0	160	293	ND	140	0.54	NT
	05/29/07	NA	190	12.0	21	240	463	ND	390	0.45	NT
MW-15	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.13	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	0.90	NS	NS	NS	NS	NS	NS	NS	NS	NS
Name of	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-16	11/24/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	< 0.020	<5.0
17122832	02/23/09	0.79	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	11/23/09	2.31	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.45	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	11/23/09	0.11	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:

pg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milligrams/liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSLs

NA = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled due to the presence of free-product

NS = RBSL has not been established

RBSL = RBSL has not been established

RBSL = RBsL has not been established

RBSL = RBsL has on been established

RBSL = RBsL has descripted was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.

* Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event;

therefore no groundwater data is available. The well was abandoned on 12/5/05.

TABLE 3 Laboratory Analytical Results 8-Oxygenates Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #36308 BLE Project No. J09-1010-14

Boring ID#	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (μg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (μg/L)	
SC DH	EC RBSL	NE	NE	NE	NE	NE	NE	NE	NE	
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
MW-1	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
) my o	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS	
MW-2	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MU an	02/23/09	NT	70.5	NT	NT	NT	NT	NT	NT	
MW-2D	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-3	02/23/06				Well Ab	andoned				
MW-3R	02/23/09			Well not sa	mpled due to 0.6	0 feet of free proc	luct present			
MW-3K	11/23/09		Well not sampled due to 0.04 feet of free product present							
MW-4	02/23/09				D	гу				
IVI W4	11/23/09			Well not sa	mpled due to 0.4	7 feet of free proc	luct present			
MW-5	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
WW-5	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-6	02/23/09				D	ту				
WW-0	11/23/09			Well not sa	mpled due to 3.1	0 feet of free proc	luct present			
MW-7	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
IVI W-7	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-8	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
WW-0	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-9	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
MW-9	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-10	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
1414-10	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-11	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
141 14 - 11	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-12	02/23/09				D	ту		_		
N1W-12	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-13	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
1414-15	11/24/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-14	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
14111-14	11/23/09	<20.0	<200	<100	<200	<10.0	<400	<20.0	<200	
MW-15	02/23/09			Well not sa	mpled due to 0.1	3 feet of free proc	luct present			
1111-13	11/23/09			Well not sa	mpled due to 0.9	0 feet of free proc	luct present			
MW-16	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT	
2.2.110	11/23/09	<10.0	<100	<50.0	<100	<5.0	<200	<10.0	<100	
MW-17	02/23/09			Well not sa	mpled due to 0.7	9 feet of free proc	luct present			
212 11 - 17	11/23/09			Well not sa	mpled due to 2.3	1 feet of free proc	luct present			
MW-18	02/23/09			Well not sa	mpled due to 0.4	5 feet of free proc	luct present			
10	11/23/09			Well not sa	mpled due to 0.1	1 feet of free prod	luct present			

Notes:

µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

Bold and shaded cells indicate concentrations above RBSLs

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NE = RBSL has not been established

RBSL = Risk Based Screening Level

* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.

The well was abandoned on 12/5/05.

TABLE 4 Laboratory Analytical Results 5-RCRA Metab Former Ryder Truck Terminal Greenville, South Carolina UST Permin #11929; Cost Agreement #34308 BLE Project No. J09-1010-14

Boring ID#	Date Sampled	Total Arsenic (µg/L)	Dissolved Arsenic (µg/L)	Total Barium (µg/L)	Dissolved Barium (µg/L)	Total Mercury (µg/L)	Dissolved Mercury (µg/L)	Total Cadmium (µg/L)	Dissolved Cadmium (µg/L)	Total Selenium (µg/L)	Dissolved Selenium (µg/L)	Total Chromium (µg/L)	Dissalved Chromium (µg/L)	Total Silver (µg/L)	Dissolved Silver (µg.L)	Total Lead (µg/L)	Dissolved Lead (µg/L)
SC DHE	C RBSL	50	ag/L	2000	µg/L	2 μ	g/L	5 µ	g/L	50	ng/L	100	μg/L	5)	ıg/L	15	μg/L
MW-I	02/23/09	ND	NT	227	NT	ND	NT	ND	NT	ND	NT	11.3	NT	ND	NT	9.6	NT
	11/23/09	NT	<5.0	NT	21.6	NT	0.63	NT	<1.0	NT	<10.0	NT	0.93J	NT	0.17J	<5.0	<5.0
MW-2	02/23/09	NS	NT	NS	NT	NS	NT	NS	NT	NS	NT	NS	NT	NS	NT	NS	NS
	11/23/09	NT	<5.0	NT	41.0	NT	0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.32J	<5.0	<5.0
MW-2D	02/23/09	ND	NT	70.5	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT
	11/23/09	NT	<5.0	NT	62.6	NT	<0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.17J	<5.0	<5.0
MW-3	02/23/06								Well Ab	andoned							
MW-3R	02/23/09							Well not samp	pled due to 0.6	0 feet of free p	roduct present						
	11/23/09							Well not samp	oled due to 0.0	4 feet of free p	roduct present						
MW-4	02/23/09								D	ry							
2011.0	11/23/09							Well not samp	pled due to 0.4	7 feet of free p	roduct present						
MW-5	02/23/09	ND	NT	38.9	NT	ND	NT	ND	NT	ND	NT	12.7	NT	ND	NT	10.6	NT
24.00	11/23/09	NT	<5.0	NT	12.9	NT	<0.20	NT	<1.0	NT	5.2J	NT	<5.0	NT	0.30J	<5.0	5.0
MW-6	02/23/09								D	ry							
51W-0	11/23/09							Well not samp	oled due to 3.1	0 feet of free p	roduct present						
	02/23/09	ND	NT	204	NT	0.35	NT	ND	NT	ND	NT	39.6	NT	ND	NT	23.1	NT
MW-7	11/23/09	NT	<5.0	NT	88.2	NT	0.12J	NT	<1.0	NT	<10.0	NT	1.03	NT	0.18J	11.4	6.5
	02/23/09	ND	NT	56.4	NT	0.47	NT	ND	NT	ND	NT	5.8	NT	ND	NT	ND	NT
MW-8	11/23/09	NT	<5.0	NT	51.1	NT	<0.20	NT	0.51J	NT	<10.0	NT	<5.0	NT	0.44J	<5.0	<5.0
SHOWS	02/23/09	114	NT	5,410	NT	1.2	NT	55.0	NT	64.0	NT	1,720	NT	ND	NT	1,010	NT
MW-9	11/23/09	NT	<5.0	NT	22.5	NT	<0.20	NT	<1.0	NT	<10.0	NT	1.33	NT	0.19J	<5.0	<5.0
	02/23/09	14.8	NT	928	NT	1.5	NT	30.2	NT	25.3	NT	474	NT	ND	NT	328	NT
MW-10	11/23/09	NT	<5.0	NT	70.6	NT	1.4	NT	<1.0	NT	3.9J	NT	2.13	NT	0.34J	6.4	17.0
	02/23/09	6,4	NT	3,040	NT	2.7	NT	137	NT	39.4	NT	827	NT	ND	NT	1,180	NT
MW-11	11/23/09	NT	<5.0	NT	127	NT	0.16J	NT	<1.0	NT	<10.0	NT	1.8J	NT	0.25J	115	46.9
	02/23/09		10						D	ту							
MW-12	11/23/09	NT	<5.0	NT	70.2	NT	1.2	NT	<1.0	NT	<10.0	NT	1.1J	NT	0.18J	<5.0	<5.0
	02/23/09	ND	NT	52.9	NT	0.82	NT	ND	NT	ND	NT	ND	NT	ND	NT	ND	NT
MW-13	11/23/09	NT	<5.0	NT	43.6	NT	<0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.48J	<5.0	<5.0
	02/23/09	5.7	NT	902	NT	ND	NT	36.8	NT	22.8	NT	451	NT	ND	NT	251	NT
MW-14	11/23/09	NT	<5.0	NT	29.1	NT	<0.20	NT	<1.0	NT	<10.0	NT	<5.0	NT	0.36J	<5.0	<5.0
	02/23/09	2000		SAPAC	94652	2070		193035	oled due to 0.1.	120 000	5,011	J. CA-	Neste	2465	15,000	y awar	30000
MW-15	11/23/09								pled due to 0.9								
	02/23/09	ND	NT	82	NT	1.5	NT	ND	NT	ND	NT	21.7	NT	ND	NT	10.7	NT
MW-16	11/24/09	NT	<5.0	NT	119	NT	<0.20	NT	<1.0	NT	<10.0	NT	0.44J	NT	0.22J	<5.0	<5.0
	02/23/09	3570	8423	500	1 XMX	55.50	LIE HERAC	ADDITION OF	oled due to 0.7	200 000	75/21 5 2	1, 2500	977677	(0)3	0.000	1 (20)	- 55%)
MW-17	11/23/09								pled due to 2.3								
	02/23/09								oled due to 0.4								
MW-18										10-11-11	1						
,	11/23/09							well not samp	oled due to 0.1	i reet of free p	roduct present						

Notes:

yagiter = micrograms/iter = approximate Parts Per Billion (ppb)

Ball and shaded cells indicate concentrations above RBSLs

A = Ahandoned

An = Not Applicable

ND = Not Detected at the Method Detection Limin

Th = Not Testion

NS = Not Sampled due to the presence of fire-product

NS = Not Sampled due to the presence of fire-product

NS = Not Sampled due to the presence of fire-product

RBSL = RBSL is not been established

RBSL = RRsk Based Screening Level

J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.

* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event, therefore no groundwater data is available. The well was abandoned on 12/5/05.

TABLE 5
Laboratory Analytical Results
Intrinsic Parameters
Former Ryder Truck Terminal
Greenville, South Carolina
UST Permit #11929; Cost Agreement #36308
BLE Project No. J09-1010-14

ID#	Date Sampled	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
SC DHI	EC RBSL	NE	NE	NE
	12/13/96	NT	NT	NT
	02/10/98	ND ND	0.62	N1 12.57
	03/29/99	ND	0.71	7.3
	07/05/01	243	ND	11.8
	01/28/03 02/03/04	ND NT	0.87 NT	4.1 NT
MW-1	01/20/05	NT	0.94	4.2
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT NT	NT NT	NT NT
	11/23/09	<0.50	1.1	2.5
	12/13/96	NT	NT	NT
	02/10/98	NT	NT	NT
	03/29/99	NT NT	NT	NT
	07/05/01 01/28/03	NT	NT NT	NT NT
MW-2	02/02/04	NT	NT	NT
MW-2	01/20/05	NT	NT	NT
	02/23/06	NT	NT	NT
	05/29/07 09/09/08	NT NT	NT NT	NT NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.1	<1.0
	02/10/98	ND	ND	16.81
	03/29/99	3,200	ND	16
	07/05/01	3,830	2.04 ND	ND 8.8
	01/28/03 02/03/04	5,240 NT	ND NT	8.8 NT
MW-2D	01/20/05	NT	ND	12
	02/23/06	NT	NT	NT
	05/29/07	NT	NT	NT
	09/09/08	NT NT	NT NT	NT NT
	02/23/09	NT <0.50	NT <0.10	NT 14
	02/10/98	ND	ND	2.75
	03/29/99	NT	NT	NT
	07/05/01	NT	NT	NT
MW-3	01/28/03	NT	NT	NT NT
	02/02/04 01/20/05	NT NT	NT NT	NT
	02/23/06		Abandoned	
	02/24/06	NT	0.15	1.2
	05/29/07	NT	NT	NT
MW-3R	09/09/08	NT Not compled	NT due to 0.60 feet o	NT f free product
	02/23/09 11/23/09		due to 0.04 feet o	
	02/10/98	ND	0.71	3.26
	03/29/99	ND	1.29	3.69
	07/05/01	158	2.75	ND
	01/28/03 02/02/04	ND NT	2.24 NT	ND NT
MW-4	01/20/05	NT	NT 1.6	NT ND
	02/23/06	NT	NT	NT
-411 7	05/29/07	NT NT	NT	NT NT
	05/29/07 09/09/08	NT	NT NT	NT
	05/29/07 09/09/08 02/23/09	NT NT NT	NT NT Dry	NT NT NT
	05/29/07 09/09/08	NT NT NT	NT NT	NT NT NT
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99	NT NT NT Not sampled 300 ND	NT NT Dry due to 0.47 feet o 0.16 0.52	NT NT NT of free product 1.92 4.79
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01	NT NT NT Not sampled 300 ND 214	NT NT Dry due to 0.47 feet o 0.16 0.52 26	NT NT NT of free product 1.92 4.79 ND
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03	NT NT NT Not sampled 300 ND 214 242	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99	NT NT NT of free product 1.92 4.79 ND ND
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01	NT NT NT Not sampled 300 ND 214	NT NT Dry due to 0.47 feet o 0.16 0.52 26	NT NT NT of free product 1.92 4.79 ND
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04	NT NT NT NT Sampled 300 ND 214 242 NT NT NT NT NT NT NT	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31	NT NT NT NT NT NT NT NT NT NT NT NT NT N
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07	NT NT NT NT Sampled 300 ND 214 242 NT NT NT NT NT NT NT NT NT	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31 NT	NT NT NT NT NT NT NT NT NT NT NT NT NT N
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/09 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08	NT	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31 NT NT	NT NT NT NT of free product 1.92 4.79 ND ND NT 1.7 NT NT NT NT NT
	05/29/07 09/09/08 02/23/09 11/23/09 02/210/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09	NT NT NT NT Sampled 300 ND 214 242 NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31 NT NT NT NT NT	NT NT NT NT of free product 1.92 4.79 ND ND ND NT 1.7 NT NT
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/09 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08	NT	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31 NT NT NT NT NT NT NT -0.10	NT NT NT NT of free product 1.92 1.92 ND ND ND NT NT NT NT NT NT NT NT NT 3.3
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09	NT NT NT NT NT NOT Sampled 300 ND 214 242 NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31 NT NT NT NT NT	NT NT NT 1.92 4.79 ND ND NT 1.7 NT NT
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 11/23/09 02/21/098 03/29/99 07/05/01	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT Dry due to 0.47 feet of 0.16 0.52 26 0.99 NT 0.31 NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT NT 1.92 4.79 ND ND NT 1.7 NT NT NT NT NT NT NT NT NT NT NT NT NT
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 05/29/07 09/09/08 02/23/09 11/23/09 03/29/99 07/05/01 01/28/03 03/29/99 07/05/01 01/28/03	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT Dry due to 0.47 feet o 0.16 0.52 26 0.99 NT 0.31 NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT NT NT 1.92 4.79 ND ND ND NT 1.72 NT NT NT NT NT NT NT NT NT NT NT NT NT
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 02/23/06 02/23/09	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT Dry Dry Out 16 Ou	NT NT NT NT 1.92 4.79 ND ND NT 1.7 NT NT NT NT NT NT NT NT NT NT NT NT NT
	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 02/23/09 02/23/09 03/29/99 03/29/99 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09 03/29/09	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT	NT NT NT 1.92 4.79 ND ND ND NT 1.7 NT NT NT NT NT NT NT NT NT NT NT NT NT
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 02/23/06 05/29/07 02/23/06 05/29/07 02/23/06 02/23/06 05/29/07 02/23/06 03/29/07	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 02/23/09 02/23/09 03/29/99 07/05/01 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/28/03 02/02/04 01/08/05/06/05/06/06/06/06/06/06/06/06/06/06/06/06/06/	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT 1.92 4.79 ND ND ND NT 1.7 NT NT NT NT NT NT NT NT NT NT NT NT NT
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MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 09/09/08 02/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/23/09 09/15/99 07/05/01 01/28/03 02/02/04 01/23/09 09/15/99 07/05/01 01/28/03 02/02/04 01/23/09 09/15/99 07/05/01 01/28/03 09/15/99 07/05/01 01/28/03 09/15/99 07/05/01 01/28/03 09/15/99 07/05/01	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT Dry due to 0.47 feet of 0.16 0.52 2.66 0.99 NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT NT 1.92 4.79 ND ND NT NT NT NT NT NT
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MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 02/23/09 02/23/09 02/23/09 02/23/09 02/23/09 02/23/09 02/23/09 02/23/09 01/28/03 02/02/04 01/20/05 02/23/09 09/15/99 09/15/99 09/15/91 01/28/03 02/02/04 01/20/05 02/23/09 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99 09/15/99	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT 1 1.6 NT NT NT NT NT NT NT NT NT NT NT NT NT	NT NT NT NT NT NT NT NT
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/09 02/23/09 02/23/09 02/23/09 02/23/09 03/29/99 07/05/01 01/28/03 02/23/09 03/29/	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT 1.1 NT NT NT NT NT NT NT N
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 02/10/98 03/29/99 03/10/98 03/29/99/99 03/29/99 03/	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT 1.7 NT NT NT NT NT NT NT N
MW-5 MW-6 MW-7	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/09 02/23/09 02/23/09 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09 01/28/03 02/23/09	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT 1.7 NT NT NT NT NT NT NT N
MW-5	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/09 02/10/98 03/29/99 03/10/98 03/29/99/99 03/29/99 03/	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT O.10 O.12 O.15 O	NT NT NT 1.14 ND ND NT NT NT NT NT NT
MW-5 MW-6 MW-7	05/29/07 09/09/08 02/23/09 11/23/09 03/29/09 07/05/01 01/28/03 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 09/09/08 02/23/09 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 03/29/09 07/05/01 01/28/03 03/29/09 09/15/09 09/15/09 01/28/03 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 09/09/08 02/23/09 01/28/03 02/23/06 05/29/07 09/09/08 02/23/09 09/15/	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT
MW-5 MW-6 MW-7	05/29/07 09/09/08 02/23/09 11/23/09 02/10/98 03/29/99 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 09/09/08 02/23/09 02/10/98 03/29/99 03/10/98 03/29/99 03/10/98 03/29/99 03/20/04 01/20/05 02/23/09 09/15/99	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT
MW-5 MW-6 MW-7	05/29/07 09/09/08 02/23/09 11/23/09 03/29/09 07/05/01 01/28/03 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 09/09/08 02/23/09 07/05/01 01/28/03 02/02/04 01/20/05 02/23/06 05/29/07 09/09/08 03/29/09 07/05/01 01/28/03 03/29/09 09/15/09 09/15/09 01/28/03 02/23/06 05/29/07 09/09/08 02/23/06 05/29/07 09/09/08 02/23/09 01/28/03 02/23/06 05/29/07 09/09/08 02/23/09 09/15/	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT NT NT NT NT NT N	NT NT NT NT NT NT NT NT

TABLE 5 Laboratory Analytical Results Intrinsic Parameters Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #36308 BLE Project No. J09-1010-14

Boring ID#	Date Sampled	Ferrous Iron (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)
SC DE	EC RBSL	NE	NE	NE
	02/03/04	NT	NT	NT
	01/20/05	NT	0.78	ND
	02/23/06	NT	NT	NT
MW-9	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	0.91	1.7
	02/02/04	NT	NT	NT
	01/20/05	NT	0.85	ND
	02/24/06	NT	NT	NT
MW-10	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	1.1	<1.0
	02/02/04	NT	NT	NT
	01/20/05	NT	1.2	1.2
	02/24/06	NT	NT	NT
MW-11	05/29/07	NT	NT	NT
	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	< 0.50	1.2	<1.0
	02/24/06	NT	5.5	1.1
	05/29/07	NT	NT	NT
MW-12	09/09/08	NT	NT	NT
	02/23/09		Dry	
	11/23/09	<0.50	6.5	<1.0
	02/24/06	NT	NT	NT
	05/29/07	NT	NT	NT
MW-13	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	4.3	12
	2/24 2006	NT	NT	NT
	05/29/07	NT	NT	NT
MW-14	09/09/08	NT	NT	NT
	02/23/09	NT	NT	NT
	11/23/09	<0.50	<0.10	1.2
	02/24/06	NT	0.87	1.7
	05/29/07	NT	NT	NT
MW-15	09/09/08	NT	NT	NT
	02/23/09		due to 0.13 feet o	
	11/23/09		due to 0.90 feet o	
MW-16	02/23/09	NT	NT	NT
	11/24/09	<0.50	1.4	<1.0
MW-17	02/23/09		due to 0.79 feet o	
2-144-17	11/23/09	Not sampled	due to 2.31 feet o	f free product
MW-18	02/23/09	Not sampled	due to 0.45 feet of	f free product
MW-18	11/23/09	Not sampled	due to 0.11 feet o	f free product

Notes:

µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milligrams/liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSLs

A = Abandoned

NA = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled due to the presence of free-product

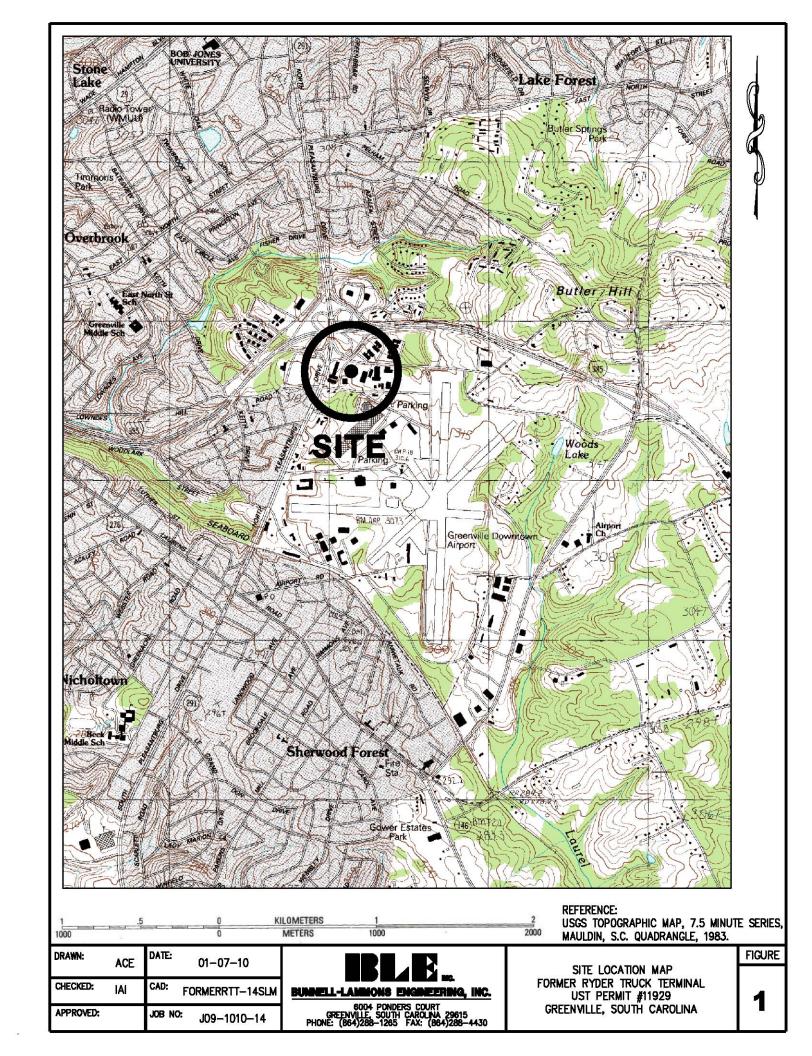
NE = RBSL has not been established

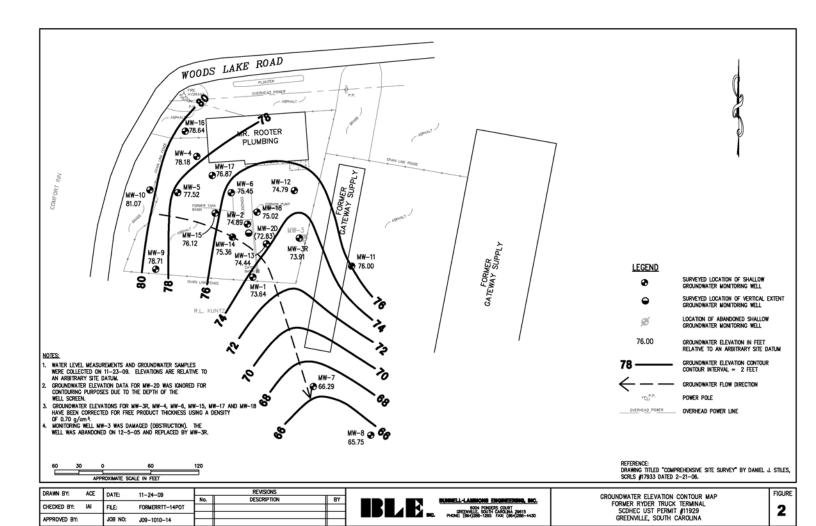
RBSL = Risk Based Screening Level

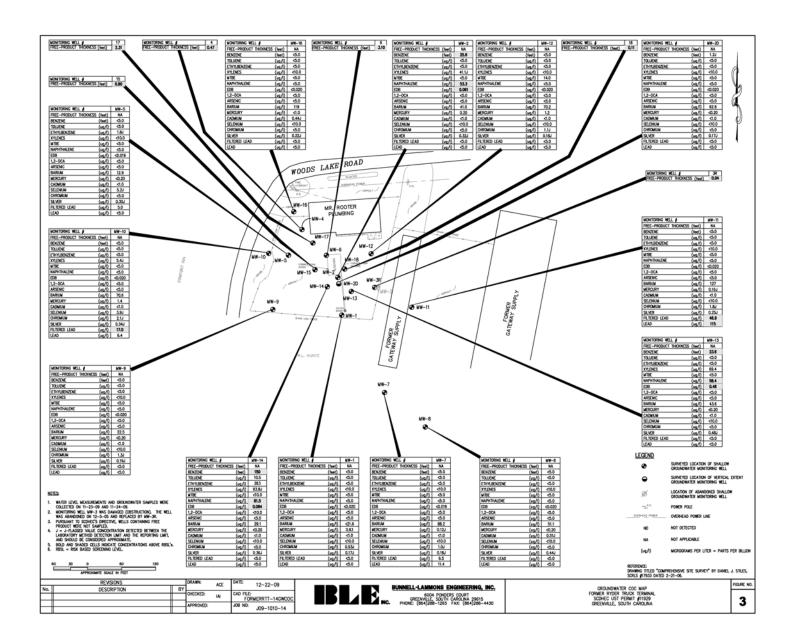
* Menitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available.

The well was abandoned on 12/5/05.











APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES, AND MONITORING WELL SAMPLING LOGS

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

Pursuant to SCDHEC's directive, purging was not required for existing monitoring wells where the well screens bracket the water table during the time of sampling (with the exception of new well development). Therefore, the monitoring wells which required purging were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water was evacuated. Specific conductance, pH, water temperature, and dissolved oxygen were measured periodically during well evacuation using instruments, which were calibrated as required.

The monitoring wells were purged using 42-inch long disposable bailers attached to an unused polypropylene cord. To minimize the potential for cross-contamination between wells, a new clean bailer was used for each well.

Samples for VOC analysis were placed in laboratory prepared 40-milliliter glass vials with Teflon[®] lined lids and marked with identifying numbers. The VOC samples were preserved using hydrochloric acid (HCl). The samples for the 8 RCRA metals and total lead were placed in laboratory prepared 250 mL plastic jars and preserved using nitric acid (HNO3). The sample containers were maintained at approximately 4° Celsius in a refrigerated sample cooler. The sample cooler was shipped to Pace Analytical Services, Inc., in Huntersville, North Carolina via overnight delivery service for analysis.

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									Pag	e <u>1</u>	of	19
Date	November 23, 2009					Well#	MW-1					
Field Personnel			Ivan A. Irizarry		_							
General weathe	r Conditions	S	unny to partly clou	dy	_	Well Diame	ter (D)	2	inch of	31.00	feet(ft)	
Ambient Air Ter	mperature (°F)		53		_	conversion t	factor (C): 3.14					
l								vell C = 0.163				
Facility Name:	Former Ryder Tru	ck Terminal	Site ID#		11929	4		vell C = 0.652				
							ıct Thickness		NA	ft		
		Quality A	Assurance			-11	Depth (TWD)		31.00	ft		
							oundwater (DG		27.06	ft		
pH Sensor:	Oakton 356		_ Conductivity Ser	isor:	35630-32	-11 ~	/ater Colum (LV			3.94	ft	
serial no.	32497	6	_serial no.		324976	-11 -	ume (LWC*C) =		X .17	= 0.67	gals	
pH =4.0	4.0		Standard			3 Casing Vol	umes = 3 X	0.67	=	2.01	gals	
pH = 7.0	7.0		Standard			4		(Standard F	Purge Volume)			
pH = 7.0			Standard			-						
pH = 10.0			Standard			-						
		Chain o	f Custody			Total Volum	e of Water Purg	ged Before Sa	mpling	NA	gals	
Ivan	A. Irizarry	11/23/09:1800	PAG	CE	11/24/2009:1010	*If free prod	uct is present o	ver 1/8 inch, s	ampling will not	be required.		
Relin	quished by	Date/Time	Recei	ed by	Date/Time							
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Pur	ged (gallons)			0	Tist voi.	Ziid Voi.	Jid Vol.	1	T July Vol.	T	Cample	1
Time (milita				1159	 		+	+	+	1	 	1
pH (s.u)	• • • • • • • • • • • • • • • • • • • •			4.85			+	+	+	_	_	1
Specific Cor	nductivity			91.0	+	 	+	+	+	+	+	1
	perature (°C)			14.1		 	+	+	+	+		1
	ubjective: clear, s	lightly cloud	v cloudy)	Clear	+	 	+	+	+	+	+	1
	xygen (mg/l)	ilgitay ciouu	y, cloudy)	5.48	+	 	+	+	+	+		1
Dissolved O	xygen (mg/i)			3.40								.
L	NA/-II I - d - f	4450 N		00								
Remarks:	Well sampled at	1 109 ON NOV	rember 23, 20	<u>09.</u>								
I												

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of

Date November 23, 2009										
				Well#	MW-2					
Field Personnel	Ivan A. Irizarry									
General weather Conditions	Sunny to partly clou	ıdy		Well Diamet	ter (D)	2	inch of	30.00	feet(ft)	
Ambient Air Temperature(°F)	53	53			actor (C): 3.1	43*(D/2)^2	_		_	
					for a 2 inch	well C = 0.163	3			
Facility Name: Former Ryder Tru	uck Terminal Site ID#		11929		for a 4 inch	well C = 0.652	2			
				*Free Produ	ct Thickness		NA	ft		
	Quality Assurance			Total Well D	epth (TWD)		30.00	ft		
				II '	oundwater (DG		25.21	ft		
pH Sensor: Oakton 356	Conductivity Se	ensor:	35630-32	Length of W	ater Colum (L)	WC = TWD-D	GW)	4.79	ft	
serial no. 32497	6 serial no.		324976	-11	ume (LWC*C) =	4.79	X .17	=0.81	gals	
pH =4.0 4.0	Standard			3 Casing Volu	ımes = 3 X	0.81		4.98	gals	
pH = 7.0 7.0	Standard			4		(Standard	Purge Volume)			
pH = 7.0	Standard			4						
pH = 10.0	Standard			1						
	Chain of Custody			Total Volum	e of Water Pur	rged Before Sa	ampling	NA	gals	
				1		-				
Ivan A. Irizarry		CE	11/24/2009:1010	*If free prod	uct is present	over 1/8 inch,	sampling wiil no	ot be required.		
Relinquished by	Date/Time Recei	ved by	Date/Time							
			4-114-1	0-11/-1	0-111-1	40. 14-1	E4- 14-1	D	0	
Values Diesed (selless)		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	1
Volume Purged (gallons)		0.0	1							ł
Time (military)		1210		-	+					ł
-11 ()		5.05	1	1	1	1	- 1	1	1	l
pH (s.u)				_	_	_	_	_	_	1
Specific Conductivity		41.0]
Specific Conductivity Water Temperature (°C)		41.0 17.8								
Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, s	lightly cloudy, cloudy)	41.0 17.8 Clear								
Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, s	lightly cloudy, cloudy)	41.0 17.8								
Specific Conductivity Water Temperature (°C)	lightly cloudy, cloudy)	41.0 17.8 Clear								
Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, s	lightly cloudy, cloudy)	41.0 17.8 Clear								
Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, s	lightly cloudy, cloudy)	41.0 17.8 Clear								
Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, s Dissolved Oxygen (mg/l)		41.0 17.8 Clear 5.08								
Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, s Dissolved Oxygen (mg/l)	slightly cloudy, cloudy) 1210 on November 23, 2	41.0 17.8 Clear 5.08	nt sheen was note	ed at time	of sampling	1.				

В	L E INC
BUNNELL-LAM	MONS ENGINEERING, INC

BONNELE-DAMMONS ENGINEERING, INC								Page	3	_ of	19
Date November 23, 200	09_				Well#	MW-2D					
Field Personnel	Ivan /	A. Irizarry		_	l		_				
General weather Conditions	Sunny to	Sunny to partly cloudy			Well Diamete	r (D)	2	inch of	54.50	feet(ft)	
Ambient Air Temperature(°F)		53			conversion fa	ctor (C): 3.14	3*(D/2)^2	_			
					l	for a 2 inch v	vell C = 0.163				
Facility Name: Former Ryder	Truck Terminal	Terminal Site ID# 11929				for a 4 inch v	vell C = 0.652				
					*Free Produc	t Thickness		NA	ft		
	Quality Assuran	nce			Total Well De			54.50	_ft		
					II '	undwater (DG)	-	26.46	_ft		
		ductivity Sen	sor:	35630-32	-11 ~	ter Colum (LV		GW)	28.04	ft	
	1976 seria	l no.		324976	-11	ne (LWC*C) =	28.04	X .17 =	4.77	gals	
	.0 Stan				3 Casing Volur	nes=3 X	4.77		14.31	gals	
	<u>'.0</u> Stan				4		(Standard F	urge Volume)			
pH = 7.0	Stan				4						
pH = 10.0	Stan	dard _			4						
	Chain of Custo	dy			Total Volume	of Water Purg	jed Before Sa	mpling	15.0	gals	
Ivan A. Irizarry	11/23/09:1800	PAC	F	11/24/2009:1010	*If free produ	nt is present o	ver 1/8 inch	ampling will not	he required		
Relinquished by	Date/Time	Receive		Date/Time	I II II CC PI CCC	ot is present o	voi 170 illoit, 3	amping will not	be required.		
,			,		1						
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	_
Volume Purged (gallons)			0	5.0	10.0	15.0					
Time (military)			1344	1355	1410	1421					
pH (s.u)			5.65	5.78	5.76	5.75					
Specific Conductivity			128.9	131.6	115.9	116.0					7
Water Temperature (°C)			19.2	18.9	19.1	19.2					7
Turbidity (subjective: clear	, slightly cloudy, clo	udy)	Clear	Clear	Clear	Clear					7
Dissolved Oxygen (mg/l)	, , , , , , , , , , , , , , , , , , , ,		1.44								┑
Remarks: <u>Well sampled</u>	at 1421 on Novemb	er 23, 200	09.								

В	L E INC
BUNNELL-LAM	MONS ENGINEERING, INC

BUNNELL-DAMINONS ENGINEERING, INC							Pag	e <u>4</u>	of	19
Date November 23, 2009				Well#	MW-3R					
Field Personnel	Ivan A. Iriza	arry				_				- 1
General weather Conditions	Sunny to partly	y cloudy		Well Diame	ter (D)	2	inch of	32.40	feet(ft)	- 1
Ambient Air Temperature (°F)	53		_	conversion f	actor (C): 3.1	43*(D/2)^2			_	- 1
					for a 2 inch	well C = 0.163				- 1
Facility Name: Former Ryder Tru	ck Terminal Site	e ID#	11929	1	for a 4 inch	well C = 0.652				- 1
					ct Thickness		0.04	ft		- 1
	Quality Assurance			-11	epth (TWD)		32.40	ft		- 1
					oundwater (DG	-	25.12	_	-	- 1
pH Sensor:		ity Sensor:		-11 ~	ater Colum (LV			NA	ft	- 1
serial no.	serial no.				ıme (LWC*C) =		— X .17	= <u>NA</u>	gals	- 1
pH =4.0	Standard			3 Casing Vol	umes = 3 X	NA (Standard B	– ,,,,=	NA	gals	- 1
pH = 7.0	Standard			-		(Standard P	urge Volume)			- 1
pH = 7.0 pH = 10.0	Standard Standard			-						- 1
pH = 10.0	Standard			1						- 1
	Chain of Custody			Total Volum	e of Water Pur	ged Before Sa	mpling	NA	gals	- 1
			11/24/2009:1010	*If free prod	uct is present o	wer 1/8 inch e	empling will no	t he required	_	- 1
Relinquished by	Date/Time F	Received by	Date/Time	1" "66 piou	uct is present c	Wei 1/0 IIICII, 3	arripining will no	t be required.		- 1
				-						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)					T					1 I
Time (military)										1 I
pH (s.u)										1 I
Specific Conductivity										1
Water Temperature (°C)										1 I
Turbidity (subjective: clear, s	lightly cloudy, cloudy)									1
Dissolved Oxygen (mg/l)	gj				1					1 I
7,5		•			•	•	•	•	•	·
Remarks: Well not sampled	I due to the presence	of 0.04 feet	of free-phase petro	oleum prod	luct.					

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BUNNELL-DAMINONS ENGINEERING, INC							Pag	e <u>5</u>	of	19
Date November 23, 2009				Well#	MW-4					
Field Personnel	Ivan A. Iriza	rry				_				- 1
General weather Conditions	Sunny to partly	cloudy		Well Diamet	er (D)	2	inch of	29.50	feet(ft)	- 1
Ambient Air Temperature (°F)	53			conversion f	actor (C): 3.14	43*(D/2)^2	_			- 1
				1	for a 2 inch \	well C = 0.163	}			- 1
Facility Name: Former Ryder Tru	ick Terminal Site	ID#	11929	_	for a 4 inch v	well C = 0.652				- 1
					ct Thickness		0.47	ft		- 1
	Quality Assurance			⊣ II	epth (TWD)		29.50	ft		- 1
		_		II '	oundwater (DG		24.82	ft		- 1
pH Sensor:	Conductivit	y Sensor:		⊣ l ~	ater Colum (LV			NA	ft	- 1
serial no.	serial no.						X .17		gals	- 1
pH =4.0	Standard			3 Casing Volu	ımes = 3 X	NA (Standard F	urge Volume)	NA	gals	- 1
pH = 7.0 pH = 7.0	Standard			-		(Standard F	Purge volume)			- 1
pH = 10.0	Standard Standard			┨						- 1
pH = 10.0	Standard			┨						- 1
	Chain of Custody			Total Volum	e of Water Purg	ged Before Sa	mpling	NA	gals	- 1
				*If free prod	uct is present o	ver 1/8 inch	sampling wiil no	t he required		- 1
Relinquished by	Date/Time Ro	eceived by	Date/Time	1						- 1
				'						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)					1				1	7 I
Time (military)					1					1 I
pH (s.u)					1					1 I
Specific Conductivity					1		1			1 I
Water Temperature (°C)					1					1 I
Turbidity (subjective: clear, s	lightly cloudy, cloudy)				1					1 I
Dissolved Oxygen (mg/l)					1					1 I
										·
										- 1
L	I do a ta tha a a a a a		- (
Remarks: Well not sampled	due to the presence of	or U.47 feet	of free-phase petro	oleum prodi	JCT.					- 1
										I

В	L E INC
BUNNELL-LAM	MONS ENGINEERING, INC

							Pag	e <u>6</u>	of	19
Date November 23, 2009				Well#	MW-5	_				
Field Personnel	Ivan A. Irizarry		_							
General weather Conditions	Sunny to partly clo	udy	_	Well Diamet	ter (D)	2	inch of	29.00	feet(ft)	
Ambient Air Temperature (°F)	53		_	conversion f	actor (C): 3.1	43*(D/2)^2				
						well C = 0.163				
Facility Name: Former Ryder Tru	uck Terminal Site ID#	<u> </u>	11929	4		well C = 0.652				
					ct Thickness		NA	ft		
	Quality Assurance			-11	epth (TWD)		29.00	_ft		
	0		25222.22		oundwater (DG	,	23.96	_ft		
pH Sensor: Oakton 356 serial no. 32497		ensor:	35630-32	41 ~	ater Colum (L)		-	5.04	ft	
serial no. 32497 pH =4.0 4.0	6 serial no. Standard		324976	-11	ume (LWC*C) = umes = 3 X	5.04 0.86	X .17	= 0.86	gals	
pH = 7.0 4.0 pH = 7.0 7.0				S Casing Voit	imes = 3 X		ourge Volume)	2.30	gals	
pH = 7.0 7.0	Standard			1		(Standard r	-urge volume)			
pH = 10.0	Standard			1						
	Ottandard			1						
	Chain of Custody			Total Volum	e of Water Pur	ged Before Sa	ampling	NA	gals	
Ivan A. Irizarry	11/23/09:1800 PA	CE	11/24/2009:1010	*If free produ	uct is present o	over 1/8 inch. s	sampling wiil no	t be required.		
Relinquished by		ived by	Date/Time	1		,	, pg			
				•						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	i
Volume Purged (gallons)		0								7 I
Time (military)		1222								7 I
pH (s.u)		5.21								7 I
Specific Conductivity		106			1					7 I
Water Temperature (°C)		16.8								⊤ I
Turbidity (subjective: clear, s	slightly cloudy, cloudy)	Clear	1							¬ I
Dissolved Oxygen (mg/l)	g,	1.32								⊣
	1222 on November 23, 2				•		•	•	•	

В	L E INC
BUNNELL-LAM	MONS ENGINEERING, INC

							ı aş			
Date November 23, 2009				Well#	MW-6					
Field Personnel	 Ivan A. Irizarry 			110.11		_				
General weather Conditions	Sunny to partly clo			Well Diame	ter (D)	2	inch of	29.50	feet(ft)	
Ambient Air Temperature (°F)	53	,	_		factor (C): 3.1		_			
					for a 2 inch	well C = 0.163				
Facility Name: Former Ryder Tr	ruck Terminal Site ID	#	11929	1	for a 4 inch	well C = 0.652				
				*Free Produ	ict Thickness		3.10	ft		
	Quality Assurance			Total Well D	epth (TWD)		29.50	ft		
				Depth to Gr	oundwater (DG	W)	28.46	ft		
pH Sensor:	Conductivity S	ensor:		Length of W	ater Colum (LV	VC = TWD-D	GW)	NA	ft	
serial no.	serial no.			1 Casing Vol	ume (LWC*C) =	NA	X .17	= NA	gals	
pH =4.0	Standard			3 Casing Vol	umes = 3 X	NA		NA	gals	
pH = 7.0	Standard			1		(Standard F	urge Volume)			
pH = 7.0	Standard			1						
pH = 10.0	Standard			1						
	Chain of Custody			Total Volum	e of Water Pur	ned Refore Sa	mpling	NA	gals	
	Chair or Custody			1		-				
				*If free prod	uct is present of	over 1/8 inch, s	ampling will no	t be required.		
Relinquished by	Date/Time Rece	eived by	Date/Time							
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	٦ ١
Volume Purged (gallons)										4
Time (military)										-
pH (s.u)										-
Specific Conductivity										-
Water Temperature (°C)										-
Turbidity (subjective: clear,	slightly cloudy, cloudy)									_
Dissolved Oxygen (mg/l)										
		•	·			•	•			
L										
Remarks: Well not sample	d due to the presence of	3.10 feet	of free-phase prod	<u>uct.</u>						

В	L E INC
BUNNELL-LAM	MONS ENGINEERING, INC

							Pag	e8	of	19
Date November 23, 2009				Well#	MW-7	_				
Field Personnel	Ivan A. Irizarry		_							
General weather Conditions	Sunny to partly clo	oudy	_	Well Diamet	ter (D)	2	inch of	32.80	feet(ft)	
Ambient Air Temperature (°F)	53		_	conversion f	actor (C): 3.1	43*(D/2)^2				
						well C = 0.163				
Facility Name: Former Ryder T	ruck Terminal Site ID	#	11929	4		well C = 0.652	2			
					ct Thickness		NA	ft		
	Quality Assurance			-11	epth (TWD)		32.80	—ft		
					oundwater (DG	,	26.38	_ft	_	
pH Sensor: Oakton 35		ensor:	35630-32	41 ~	ater Colum (L)		-	6.42	ft	
serial no. 3249			324976		ıme (LWC*C) =		X .17	= 1.09	gals	
pH =4.0 4.0				3 Casing Volu	umes = 3 X	1.09		3.27	gals	
pH = 7.0 7.0	Standard Standard			1		(Standard F	Purge Volume)			
pH = 7.0 pH = 10.0	Standard			1						
ph = 10.0	Standard			1						
	Chain of Custody			Total Volum	e of Water Pur	ged Before Sa	ampling	NA	gals	
Ivan A. Irizarry	11/23/09:1800 PA	ACE	11/24/2009:1010	*If free produ	uct is present /	over 1/8 inch	empling wiil no	t he required		
Relinquished by		eived by	Date/Time	I II II GG PI GG	uct is present t	over 1/0 inch, s	sampling will no	t be required.		
· · · · · · · · · · · · · · · · · · ·										
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)		0			1					7 I
Time (military)		0945								T
pH (s.u)		4.45								7 I
Specific Conductivity		65.2								7 I
Water Temperature (°C)		19.2								⊤ I
Turbidity (subjective: clear,	slightly cloudy, cloudy)	Clear								⊣ ∣
Dissolved Oxygen (mg/l)		2.23								⊣
	t 0945 on November 23, 2				•		•	•	•	

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						1						
_	November 23, 2009					Well#	MW-8	_				
Field Personnel			Ivan A. Irizarry		_							
						Well Diamete	. ,	2	inch of	29.80	feet(ft)	
Ambient Air Tem	perature(°F)		53		-	conversion fa	actor (C): 3.14	. ,				
						ı		well C = 0.163				
Facility Name:	Former Ryder Tru	ick Terminal	Site ID#		11929	4		well C = 0.652				
						*Free Produc			NA	_ft		
		Quality A	ssurance			Total Well De			29.80	_ft		
							undwater (DG	,	23.01	_ft		
pH Sensor:	Oakton 356		Conductivity Ser		35630-32	4 ~	,	VC = TWD-DG		6.79	ft	
serial no.	32497	6	serial no.	;	324976	4 -	me (LWC*C) =		_ X .17 =	1.15	gals	
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	1.15	_ =	3.45	gals	
pH = 7.0	7.0		Standard			1		(Standard Pu	ırge Volume)			
pH = 7.0			Standard			1						
pH = 10.0			Standard			1						
		Chain of	Custody			Total Valuma	of Water Dur	ged Before San	nlina	NA	gals	
		Chain oi	Custody			Total Volume	or water rung	ged belore Sail	iping	INA	_gais	
Ivan A	A. Irizarry	11/23/09:1800	PA	CE	11/24/2009:1010	*If free produ	ct is present o	ver 1/8 inch, sa	mpling wiil not	be required.		
Relinq	uished by	Date/Time	Recei	ved by	Date/Time							
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purg	ed (gallons)			0								
Time (militar	y)			1000								
pH (s.u)				4.29								1
Specific Con-	ductivity			56.0								1
Water Tempe				16.7								1
Turbidity (sub	ojective: clear, sl	liahtly cloudy	. cloudy)	Sli. Cloudy								1
Dissolved Ox			,,	1.47					<u> </u>	 		1
2.0001104 07	() 9 0 1 (1119) 1)											ı
Remarks: V	Vell sampled at	1000 on Nov	ember 23, 20	09.								
<u>.</u>		3111101										
1												

В	L E INC							
BUNNELL-LAMMONS ENGINEERING. INC								

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of

Date	November 23, 2009					Well#	MW-9	_				
Field Person	nel		Ivan A. Irizarry									
General wea	ther Conditions	Sı	unny to partly clou	udy		Well Diamete	er (D)	2	inch of	30.70	_feet(ft)	
Ambient Air	mbient Air Temperature (°F) 53				conversion factor (C): 3.143*(D/2)^2							
							for a 2 inch v	vell C = 0.163				
Facility Nam	e: Former Ryder Tru	ick Terminal	Site ID#		11929		for a 4 inch v	vell C = 0.652				
						*Free Produc	t Thickness		NA	_ft		
		Quality A	ssurance			Total Well De	epth (TWD)		30.70	_ft		
						Depth to Gro	undwater (DG)	W)	23.55	ft		
pH Sensor:	Oakton 356	30-62	Conductivity Se	nsor:	35630-32	Length of Wa	ater Colum (LV	C = TWD-DG	W)	7.15	_ft	
serial no.	324976	6	serial no.	3	24976	1 Casing Volu	me (LWC*C) =	7.15	_ X .17 :	= 1.22	gals	
pH =4.0	4.0		Standard			3 Casing Volu	mes = 3 X	1.22		3.66	gals	
pH = 7.0	7.0		Standard					(Standard Pu	irge Volume)			
pH = 7.0			Standard									
pH = 10.0			Standard									
		Chain of	Custody			Total \/aluma	of Mator Dur	and Defere Com	unlin er	NIA	and a	
		Chain of	Custody			Total Volume of Water Purged Before Sampling NA gals						
In	van A. Irizarry	11-23-09:1800	PA	CE	11/24/2009:1010	*If free produ	ct is present o	ver 1/8 inch, sa	mpling wiil not	be required.		
R	elinquished by	Date/Time	Recei	ived by	Date/Time							
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	_
Volume F	urged (gallons)			0]
Time (mil	itary)			1537]
pH (s.u)	•			5.07								1
Specific (Conductivity			42.6				1				1
	mperature (°C)			18.1				1				1
	(subjective: clear, sl	liahtly cloudy	(, cloudy)	Sli. Cloudy								1
	Oxygen (mg/l)	,	,	2.10						$\overline{}$	1	1
									<u>'</u>		<u> </u>	'
	l l											
Remarks:	Remarks: Well sampled at 1537 on November 23, 2009.											

В	L E INC						
BUNNELL-LAMMONS ENGINEERING, INC							

·							Pag	e <u>11</u>	of	19
Date November 23, 2009				Well#	MW-10	_				
Field Personnel	Ivan A. Irizarry	L		_						
General weather Conditions	Sunny to partly clou	dy		Well Diamet	. ,	2	inch of	30.10	feet(ft)	
Ambient Air Temperature (°F)	53		-	conversion f	actor (C): 3.14					
						vell C = 0.163				
Facility Name: Former Ryder Tru	ick Terminal Site ID#		11929	l		vell C = 0.652				
1					ct Thickness		NA NA	- ft		
	Quality Assurance			Total Well D		**	30.10	_ft		
0.14 050	00.00		05000.00		oundwater (DG		23.6	_ft		
pH Sensor: Oakton 356			35630-32	41 -	,	VC = TWD-DG		6.50	—ft .	
serial no. 324970			324976	41	me (LWC*C) =		_ X .17	= 1.11	gals	
pH =4.0 4.0	Standard			3 Casing Volu	imes = 3 X	1.11 (Oten deed De	_ =	3.33	gals	
pH = 7.0 7.0	Standard			1		(Standard Pu	irge volume)			
pH = 7.0 pH = 10.0	Standard Standard			1						
pH = 10.0	Standard			1						
	Chain of Custody			Total Volume	e of Water Pur	ged Before San	npling	NA	gals	
Ivan A. Irizarry	11/23/09:1800 PA	CE	11/24/2009:1010	*If free produ	uct is present o	ver 1/8 inch, sa	ampling wiil not	be required.		
Relinquished by		ved by	Date/Time	1		,				
				-						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)		0								7 I
Time (military)		1045								1 I
pH (s.u)		4.19								1 1
Specific Conductivity		49.8					1			1 1
Water Temperature (°C)		17.3					 			1 1
Turbidity (subjective: clear, s	lightly cloudy, cloudy)	Sli. Cloudy					 			1 1
	ignay ciousy, ciousy,				1	1				1 1
	Dissolved Oxygen (mg/l) 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.65									

В	L E INC						
BUNNELL-LAMMONS ENGINEERING, INC							

BONNELL-DAMMOI	NO ENGINEERING, INC								Pag	e <u>12</u>	of	19
Date	November 23, 2009					Well#	MW-11					
Field Personnel			Ivan A. Irizarry		_							
General weathe	er Conditions	Su	Sunny to partly cloudy			Well Diame	ter (D)	2	inch of	31.00	feet(ft)	
Ambient Air Ter	mperature(°F)		53		_	conversion f	factor (C): 3.14	3*(D/2)^2				
ı							for a 2 inch v	vell C = 0.163				
Facility Name:	Former Ryder Tru	ck Terminal	Site ID#		11929	1	for a 4 inch v	vell C = 0.652				
							ict Thickness		NA	ft		
		Quality A	ssurance			-11	epth (TWD)		31.00	ft		
					35630-32	Depth to Groundwater (DGW) 24.66 ft						
pH Sensor:	Oakton 356						ater Colum (LV			6.34	ft	
serial no.	32497	6				-11	ume (LWC*C) =	6.34	X .17 :	1.08	gals	
pH =4.0	4.0		Standard			3 Casing Vol	umes = 3 X	1.08	= .	3.24	gals	
pH = 7.0	7.0		Standard			4		(Standard P	urge Volume)			
pH = 7.0			Standard			-						
pH = 10.0			Standard			-						
	Chain of Custody					Total Volum	e of Water Purg	jed Before Sai	mpling	NA	gals	
Ivan	A. Irizarry	11/23/09:1800	PAC	Œ	11/24/2009:1010	*If free product is present over 1/8 inch, sampling will not be required.						
Relin	quished by	Date/Time	Receiv	ed by	Date/Time							
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Pur	ged (gallons)			0	130 VOI.	2110 VOI.	T Ja voi.	1 701.	Jul vol.	Tost	Campic	7 I
Time (milita				1013		 	+		+			1 1
pH (s.u)	·· y /			4.15	 		+		+	_		1 1
Specific Cor	nductivity			42.9		_	+		+	+		1 1
	perature (°C)			20.5		_	+		+	+		1 1
	ubjective: clear, s	lightly clouds	(cloudy)	Clear	 	 	+		+			1 1
	objective: clear, s oxygen (mg/l)	ilgitily cloud	y, cioudy)	1.00		_	+		+		_	1 1
Dissolved O	/Aygen (mg/i)			1.00	1							ا '
Remarks:	Well sampled at	1013 on Nov	ember 23, 20	09.								

В	L E INC
LINNELL LA	MMONS ENGINEERING INC

							Pag	e 13	— of	19
Date November 23, 2009				Well#	MW-12					
Field Personnel	Ivan A. I		_							
General weather Conditions	Sunny to pa		_	Well Diame	. ,	2	inch of	30.90	feet(ft)	
Ambient Air Temperature (°F)	53	1	_	conversion t	factor (C): 3.1					
L						well C = 0.163				
Facility Name: Former Ryder Tru	ıck Terminal	Site ID#	11929	╢		well C = 0.652				
l					uct Thickness		NA NA	ft		
	Quality Assurance			⊣ I	Depth (TWD)		30.90	_ft		
0.14050		*****	05000.00	11 '	oundwater (DG	,	26.59	_ft		
pH Sensor: Oakton 356		tivity Sensor:	35630-32	-II -	/ater Colum (L)			4.31	— ^{ft} .	
serial no. 32497			324976	-11	ume (LWC*C) =		X .17	= 0.73	gals	
pH = 4.0 4.0 pH = 7.0 7.0	Standar			S Casing Vol	umes = 3 X	0.73	urge Volume)	2.19	gals	
l' <u> </u>	Standar					(Standard F	Purge volume)			
pH = 7.0 pH = 10.0	Standar Standar			┨						
pH = 10.0	Standar	<u> </u>		╢						
l	Chain of Custody			Total Volum	ne of Water Pur	ged Before Sa	mpling	NA	gals	
luan A Inimanu.	14/22/00:4000	DACE	44/24/2000:4040	*16 6		1/0 in ab		4 h a ransissad	_	
Ivan A. Irizarry Relinquished by	11/23/09:1800 Date/Time	PACE Received by	11/24/2009:1010 Date/Time	I rree prod	luct is present o	over 1/8 inch, s	sampling will no	t be required.		
Reiniquistied by	Date/Time	Received by	Daterrine							
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)		0.0	T	T	T	T	T	T	1	7
Time (military)		1300			1		1	+		┨
pH (s.u)		4.70			+		+	_		┥
Specific Conductivity		103.6	+	 	+	+	+	+	+	┥
Water Temperature (°C)		19.7	_		+	+	+	+-		┨
Turbidity (subjective: clear, s	lightly cloudy, cloud		+	 	+	+	+	+		┥
Dissolved Oxygen (mg/l)	nginiy Goday, Goda	1.50	+	_	+	+	+	+		┥
Dissolved Oxygen (mg/l)								_		
Remarks: Well sampled at 1300 on November 23, 2009.										

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UNNELL LAMMONG EN	GINEEDING INC

BUNNELL-LAMMONS ENGINEERING, INC							Pag	e <u>14</u>	of	19	
Date November 23, 2009				Well#	MW-13	_					
Field Personnel	Ivan A. Irizarr										
General weather Conditions		Sunny to partly cloudy			ter (D)	2	inch of	33.20	feet(ft)		
Ambient Air Temperature(°F)	53		_	conversion f	actor (C): 3.1	43*(D/2)^2 well C = 0.163					
Facility Name: Former Ryder 1	Truck Terminal Site II	D#	11929								
				*Free Product Thickness NA ft							
	Quality Assurance			-11	epth (TWD)		33.20	_ft			
	5000.00		25222.22	Depth to Groundwater (DGW)							
pH Sensor: Oakton 3		Sensor:	35630-32	-11 ~	,		-	9.02	ft		
serial no. 3249 pH =4.0 4.			324976	-11	ıme (LWC*C) =		X .17	= <u>1.53</u> 4.59	gals		
pH = 4.0 4. pH = 7.0 7.				3 Casing Void	umes = 3 X	1.53 (Standard F	urge Volume)	4.59	gals		
pH = 7.0	Standard			1		(Standard F	rurge volume)				
pH = 10.0	Standard			1							
	Standard			1							
	Chain of Custody			Total Volum	e of Water Pur	ged Before Sa	mpling	NA	gals		
Ivan A. Irizarry	11/23/09:1800 F	PACE	11/24/2009:1010	*If free prod	uct is present o	over 1/8 inch s	ampling wiil no	t be required			
Relinguished by		ceived by	Date/Time	1			g				
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample		
Volume Purged (gallons)		0								7 I	
Time (military)		1315								1 I	
pH (s.u)		5.05								1 I	
Specific Conductivity		182			1					1 I	
Water Temperature (°C)		19.3			1					1 I	
Turbidity (subjective: clear,	slightly cloudy, cloudy)	Clear			1					1 I	
		0.64			1	1				1 I	
Dissolved Oxygen (mg/l) 0.64 0.64 0.64 0.64 0.64 0.64 0.64 0.64											

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19

of

Page ____15

Date	November 23, 2009					Well#	MW-14	_					
Field Personnel Ivan A. Irizarry					_								
General weather Conditions Sunny to partly cloud				dy		Well Diamet	er (D)	2	inch of	32.00	feet(ft)		
Ambient Air Ter	mperature(°F)		53			conversion f	actor (C): 3.14	43*(D/2)^2	_		_		
						l	for a 2 inch v	well C = 0.163					
Facility Name:	acility Name: Former Ryder Truck Terminal Site ID#				11929	for a 4 inch well C = 0.652							
·				*Free Produ	ct Thickness		NA	ft					
		Quality A	ssurance			Total Well D	epth (TWD)		32.00	ft			
il .						Depth to Gro	oundwater (DG	W)	23.94	ft			
pH Sensor:	Sensor: Oakton 35630-62 Conductivity Ser			nsor:	35630-32	Length of W	ater Colum (LV	VC = TWD-DC	GW)	8.06	ft		
serial no.	32497	6	serial no.		324976	1 Casing Volu	me (LWC*C) =	8.06	X .17	= 1.37	gals		
pH =4.0	4.0		Standard			3 Casing Volu	imes = 3 X	1.37		4.11	gals		
pH = 7.0	7.0		Standard			1		(Standard P	urge Volume)				
pH = 7.0			Standard			1							
pH = 10.0			Standard			1							
		Chain of	Cuetody			Total Volum	e of Water Pur	ned Defore Sar	mpling	NA	gals		
		Chain or	Custody			Total Volum	e or water Furg	ged before oai	ripiirig		_gais		
	A. Irizarry	11/23/09:1800			11/24/2009:1010	*If free produ	uct is present o	ver 1/8 inch, s	ampling wiil no	t be required.			
Relin	nquished by	Date/Time	Recei	ed by	Date/Time								
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample		
Volume Pur	ged (gallons)			0]	
Time (milita	ary)			1330									
pH (s.u)				5.05									
Specific Cor	nductivity			82.9									
Water Temp	perature (°C)			20.2									
Turbidity (su	Turbidity (subjective: clear, slightly cloudy, cloudy)]	
Dissolved Oxygen (mg/l)				0.46								1	
				•	•	•	•	•	•	•	•	•	
1													
Remarks:	Well sampled at	1330 on Nov	ember 23, 20	<u> 1009.</u>									

BLE	= INC

BONNELL-DAMINONS ENGINEERING, INC							Pag	e 16	of	19
Date November 23, 2009				Well#	MW-15					
Field Personnel	Ivan A. Irizan	у		1		_				- 1
General weather Conditions					ter (D)	2	inch of	33.50	feet(ft)	- 1
Ambient Air Temperature (°F)				conversion	factor (C): 3.1	43*(D/2)^2	_		_	- 1
				1	for a 2 inch	well C = 0.163				- 1
Facility Name: Former Ryder Tru	ck Terminal Site I	D#	11929	_	for a 4 inch	well C = 0.652				- 1
					ıct Thickness		0.90	ft		- 1
	Quality Assurance			⊣ II	Depth (TWD)		33.50	ft		- 1
		_			oundwater (DG	,	24.90	ft	-	- 1
pH Sensor:	Conductivity	Sensor:		⊣ । ~	/ater Colum (LV			NA_	—ft .	- 1
serial no.	serial no.				ume (LWC*C) =			= <u>NA</u>	gals	- 1
pH =4.0 pH = 7.0	Standard			3 Casing Vol	umes = 3 X	NA (Standard F	= Purge Volume)	NA	gals	- 1
pH = 7.0 pH = 7.0	Standard Standard			┨		(Standard F	rurge volume)			- 1
pH = 10.0	Standard			┨						- 1
pri = 10.0	Standard			1						- 1
	Chain of Custody			Total Volum	ne of Water Pur	ged Before Sa	mpling	NA	gals	- 1
				*If free prod	luct is present o	ver 1/8 inch. s	ampling wiil no	t be required.		- 1
Relinquished by	Date/Time Re	ceived by	Date/Time	1		,		,		- 1
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	i
Volume Purged (gallons)										7 I
Time (military)										1 I
pH (s.u)										1 I
Specific Conductivity										1 I
Water Temperature (°C)										1 I
Turbidity (subjective: clear, sl	lightly cloudy, cloudy)									1 I
Dissolved Oxygen (mg/l)	<u> </u>									1 I
		•					•			
Remarks: <u>Well not sampled</u>	I due to the presence o	f 0.90 feet	of free-phase petro	oleum prod	uct.					

В	L E INC
BUNNELL-LAM	MONS ENGINEERING, INC

BONNELL-LAMMONS E									Pag	je <u>17</u>	of	19
Date No	ovember 23, 2009					Well#	MW-16					
Field Personnel			Ivan A. Irizarry		_							
General weather C		Su	inny to partly cloud	dy	_	Well Diame	ter (D)	2	inch of	34.40	feet(ft)	
Ambient Air Tempe	erature(°F)		53		_	conversion	factor (C): 3.1	43*(D/2)^2				
								well C = 0.163				
Facility Name:	Former Ryder Tru	ıck Terminal	Site ID#		11929	4		well C = 0.652				
							ıct Thickness		NA	ft		
		Quality A	ssurance			-11	Depth (TWD)		34.40	ft		
							oundwater (DG		24.10	— ft	-	
pH Sensor:	Oakton 356		_ Conductivity Ser	nsor:	35630-32	41 °	/ater Colum (L)			10.30		
serial no.	32497	6	_ serial no.		324976	-11	ume (LWC*C) =		X .17	= 1.75	gals	
pH =4.0	4.0		Standard			3 Casing Vol	umes = 3 X	1.75	<u> </u>	5.25	gals	
pH = 7.0	7.0		Standard			-		(Standard I	Purge Volume)			
pH = 7.0			Standard			-						
pH = 10.0			Standard			-						
		Chain of	Custody			Total Volume of Water Purged Before Sampling 3.5 gals						
h.m. A	laimann .	11/24/09:1800	PAC	>-	44/24/2000-4040	*16 6		4/0 in ab				
Ivan A. Relingui		Date/Time	Receiv		11/24/2009:1010 Date/Time	if free prod	luct is present of	over 1/8 inch,	sampling will no	ot be required.		
Kellilqui	isried by	Date/Time	Recen	ed by	Date/Time							
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purge	d (gallons)			0	1011011	1	1	1	1	1	T T	¬
Time (military)				0910			+	1				⊣
pH (s.u)				4.80			+					⊣ I
Specific Condu	uctivity			131.5	+	_	+	_	+	+		⊣
Water Temper				19.5		_				+		-
Turbidity (subj		lightly clouds	(cloudy)	Clear		_	+	+	+	+		⊣
		lightly cloud	y, cloudy)	1.92		 	+			+		-l l
Dissolved Oxy	gen (mg/l)			1.92								-
Remarks: We	ell sampled at	0910 on Nov	ember 24, 20	<u>109.</u>								

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Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

BONNELL-DAMINON'S ENGINEERING, INC							Pag	je <u>18</u>	of	19
Date November 23, 2009				Well#	MW-17	_				
Field Personnel	Ivan A. Irizarry	1								
General weather Conditions	Sunny to partly cl	oudy		Well Diame	ter (D)	2	inch of	35.00	feet(ft)	
Ambient Air Temperature (°F)	53			conversion f	factor (C): 3.14	13*(D/2)^2				
					for a 2 inch	vell C = 0.163				
Facility Name: Former Ryder Tru	ck Terminal Site ID)#	11929	1	for a 4 inch	vell C = 0.652				
					ict Thickness		2.31	ft		
	Quality Assurance			⊣ II	epth (TWD)		35.00	ft		
					oundwater (DG		26.86	ft		
pH Sensor:	Conductivity	Sensor:		- 11 ~	ater Colum (LV			NA NA	ft	
serial no.	serial no.				ume (LWC*C) =		X .17	= <u>NA</u>	gals	
pH =4.0	Standard			3 Casing Vol	umes = 3 X	NA (O)	– ,, ,	NA	gals	
pH = 7.0	Standard			-		(Standard P	urge Volume)			
pH = 7.0 pH = 10.0	Standard Standard			-						
ph = 10.0	Statiualu			1						
	Chain of Custody			Total Volum	e of Water Pur	ged Before Sa	mpling	NA	gals	
				tif free prod	uct is present o	uar 1/0 inah a	ananlina wiil na	t he required		
Relinquished by	Date/Time Rec	eived by	Date/Time	II li li ee piou	uct is present c	vei 1/0 ilicii, s	amping will no	n be required.		
			2410.711110							
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)										7 i
Time (military)										7 ∥
pH (s.u)										7 ∥
Specific Conductivity		1			1					7
Water Temperature (°C)		1								⊺ ∥
Turbidity (subjective: clear, s	lightly cloudy, cloudy)				1					7
Dissolved Oxygen (mg/l)	g,,,,,	$\overline{}$			1					⊣ ∥
										- ▮
1										
1										
Remarks: Well not sampled	I due to the presence of	2.31 feet	of free-phase petro	oleum prod	<u>uct .</u>					
1										

BLE	= INC

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

BONNELL-DAMMONS ENGINEERING, INC							Pag	e <u>19</u>	of	19
Date November 23, 2009				Well#	MW-18					
Field Personnel	Ivan A. Irizarr	у		ı		_				
General weather Conditions	Sunny to partly c	loudy		Well Diamet	ter (D)	2	inch of	35.60	feet(ft)	- 1
Ambient Air Temperature (°F)	53			conversion f	factor (C): 3.14	43*(D/2)^2	_			- 1
				ı	for a 2 inch	well C = 0.163				
Facility Name: Former Ryder Tru	ick Terminal Site II	D#	11929	1	for a 4 inch	well C = 0.652				- 1
					ict Thickness		0.11	ft		- 1
	Quality Assurance			⊣ II	epth (TWD)		35.60	ft		- 1
		_			oundwater (DG		25.45	ft		- 1
pH Sensor:	Conductivity	Sensor:		- 11 ~	ater Colum (LV			NA	ft	I
serial no.	serial no.				ume (LWC*C) =		X .17		gals	I
pH =4.0	Standard			3 Casing Volu	umes = 3 X	NA (Standard F	urge Volume)	NA	gals	- 1
pH = 7.0 pH = 7.0	Standard Standard			-		(Standard F	rurge volume)			- 1
pH = 10.0	Standard			1						- 1
pri = 10.0	otandard			1						- 1
	Chain of Custody			Total Volum	e of Water Pur	ged Before Sa	mpling	NA	gals	- 1
				*If free prod	uct is present o	ver 1/8 inch s	ampling will no	t he required		- 1
Relinquished by	Date/Time Re	ceived by	Date/Time	1						- 1
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	
Volume Purged (gallons)				T	1		1		1	7 I
Time (military)					1					1 I
pH (s.u)					1		1			1 I
Specific Conductivity					1		1			1 I
Water Temperature (°C)										1 I
Turbidity (subjective: clear, s	lightly cloudy, cloudy)				1		1			1 I
Dissolved Oxygen (mg/l)					1					1 I
							_			'
										I
Well not served	l due to the process	0 44 fo-4	of from phase	danna me-d						I
Remarks: Well not sampled	I due to the presence of	u. TT leet	or free-phase petro	neum prod	uct.					I
										I

APPENDIX B WASTE TRANSPORTATION AND DISPOSAL RECORDS

Excalibur Environmental Services, Inc. PO Box 1751 Simpsonville, South Carolina 29680 (864) 967-9744

NON-HAZARDOUS VIRGIN PETROLEUM-IMPACTED MONITOR WELL PURGE WATER TREATMENT MANIFEST

Non-Hazardous Waste Treatment Manifest No.	160	
Environmental Consultant Name/Address	Mr. Trevor Benton, PG BLE., Inc. 6004 Ponders Court Greenville, SC	
Generators Name/Address	Estate of Mr. Robert Vau # 4 East Parker Road Greenville, SC	ighn.
Site Name/Address	Former Ryder Truck Ter 10 Woods Lake Drive Greenville, SC	minal .
Source of Waste	UST System Release	
SCDHEC Site ID No.	11929	
Waste Description	Container (s) / Volume (g)	Treatment
Non-Hazardous	1 drum	*GAC
Virgin Petroleum-Impacted MW Purge Water		
*Granulated Activated Carbon Mobile Treatme Generator/Agent Representative Certification I hereby certify that the waste material listed ab		that that the monte
material is non-hazardous, and that the waste m		
regulations	FOR THE	MARKE WYMO II MOSV
Name: ESTATE OF B. VA-4		
Waste Treatment Certification	•	
Excalibur Environmental Services, Inc. has acce		
hereby certifies that the waste material has been	treated by a GAC Mobile Treat	tment Unit.
Name: Bradly A. Maur	Date: 12-9-09	e e
Bradley A. Morris		
Excalibur Environmental Services, Inc.		

APPENDIX C LABORATORY DATA SHEETS







December 10, 2009

Mr. Trevor Benton **Bunnell-Lammons Engineering** 6004 Ponders Court Greenville, SC 29615

RE: Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Dear Mr. Benton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 24, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

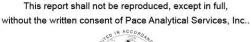
Kevin Godwin

X ~ Doch

kevin.godwin@pacelabs.com

Project Manager

Enclosures







REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Charlotte Certification IDs

9800 Kincey Ave. - Ste 100 Huntersville, NC 28078

West Virginia Certification #: 357 Connecticut Certification #: PH-0104 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 Louisiana/LELAP Certification #: 04034 New Jersey Certification #: NC012

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 Pennsylvania Certification #: 68-00784 South Carolina Certification #: 990060001 South Carolina Drinking Water Cert. #: 990060003 Tennessee Certification #: 04010

Virginia Certification #: 00213

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804 Connecticut Certification #: PH-0106 Louisiana/LELAP Certification #: 03095 Massachusetts Certification #: M-NC030 New Jersey Certification #: NC011 North Carolina Bioassay Certification #: 9

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

Pennsylvania Certification #: 68-03578 South Carolina Bioassay Certification #: 99030002 South Carolina Certification #: 99030001 Tennessee Certification #: 2980 Virginia Certification #: 00072 West Virginia Certification #: 356 Florida/NELAP Certification #: E87648

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..







SAMPLE SUMMARY

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9258190001	MW-1	Water	11/23/09 11:59	11/24/09 10:10
9258190002	MW-2	Water	11/23/09 12:10	11/24/09 10:10
9258190003	MW-2D	Water	11/23/09 14:21	11/24/09 10:10
9258190004	MW-5	Water	11/23/09 12:22	11/24/09 10:10
9258190005	MW-7	Water	11/23/09 09:45	11/24/09 10:10
9258190006	MW-8	Water	11/23/09 10:00	11/24/09 10:10
9258190007	MW-9	Water	11/23/09 15:37	11/24/09 10:10
9258190008	MW-10	Water	11/23/09 10:45	11/24/09 10:10
9258190009	MW-11	Water	11/23/09 10:13	11/24/09 10:10
9258190010	MW-12	Water	11/23/09 13:00	11/24/09 10:10
9258190011	MW-13	Water	11/23/09 13:15	11/24/09 10:10
9258190012	MW-14	Water	11/23/09 13:30	11/24/09 10:10







SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9258190001	MW-1	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190002	MW-2	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190003	MW-2D	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190004	MW-5	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190005	MW-7	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190006	MW-8	EPA 8011	CAH	2
		EPA 6010	JMW	1

REPORT OF LABORATORY ANALYSIS

Page 4 of 34







SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190007	MW-9	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	RAB	1
9258190008	MW-10	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190009	MW-11	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190010	MW-12	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190011	MW-13	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1
9258190012	MW-14	EPA 8011	CAH	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	DMN	1





ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Sample: MW-1	Lab ID: 9258190001	Collected	11/23/09	11:59	Received: 11/	24/09 10:10 Ma	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	ation Metho	d: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 11:26	12/06/09 16:42	106-93-4	
1-Chloro-2-bromopropane (S)	94 %	60-140		1	12/04/09 11:26	12/06/09 16:42	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ation Metho	d: EPA	3010			
ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 00:57	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	ation Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 14:46	7440-38-2	
Barium, Dissolved	21.6 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 14:46	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 14:46	7440-43-9	
Chromium, Dissolved	0.93 J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 14:46		Z2
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 14:46	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 14:46		
Silver, Dissolved	0.17J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 14:46		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ation Metho	d: EPA	7470			
Mercury, Dissolved	0.63 ug/L	0.20	0.090	1	11/30/09 15:20	12/02/09 14:26	7439-97-6	
3260 MSV Oxygenates	Analytical Method: EPA	8260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 08:10	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 08:10	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 08:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 08:10	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 08:10	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 08:10	762-75-4	
,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 08:10	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 08:10		
Ethanol	ND ug/L	200	170	1		12/03/09 08:10		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 08:10		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 08:10		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 08:10		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 08:10		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 08:10		
n&p-Xylene	ND ug/L	10.0	2.7	1		12/03/09 08:10		
nap-Aylene p-Xylene		5.0						
	ND ug/L		1.7	1		12/03/09 08:10 12/03/09 08:10		
Dibromofluoromethane (S)	98 %	85-115		1				
Toluene-d8 (S)	92 %	70-120		1		12/03/09 08:10		
I-Bromofluorobenzene (S)	108 %	87-109		1		12/03/09 08:10		
I,2-Dichloroethane-d4 (S)	106 %	79-120		1		12/03/09 08:10	1/060-07-0	
ron, Ferrous	Analytical Method: SM 3							
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:31		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						
Nitrogen, Nitrate	1.1 mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

			11/23/09		Received: 11/2	2 1/00 10:10	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
011 GCS EDB and DBCP	Analytical Method: EPA 8	B011 Prepara	tion Metho	d: EPA	8011		<u>.</u>	
I,2-Dibromoethane (EDB)	0.061 ug/L	0.020	0.020	1	12/04/09 11:26	12/06/09 17:02	106-93-4	
I-Chloro-2-bromopropane (S)	96 %	60-140		1	12/04/09 11:26	12/06/09 17:02	301-79-56	
6010 MET ICP	Analytical Method: EPA 6	6010 Prepara	ation Metho	d: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:00	7439-92-1	
010 MET ICP, Dissolved	Analytical Method: EPA 6	6010 Prepara	ition Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 14:50	7440-38-2	
Barium, Dissolved	41.0 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 14:50	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 14:50		
Chromium, Dissolved	ND ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 14:50		
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 14:50		
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 14:50		
Silver, Dissolved	0.32J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 14:50		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ation Metho	d: EPA	7470			
Mercury, Dissolved	0.20 ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:13	7439-97-6	
260 MSV Oxygenates	Analytical Method: EPA 8	3260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 14:10	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 14:10	994-05-8	
Benzene	25.6 ug/L	5.0	1.2	1		12/03/09 14:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 14:10	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 14:10	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 14:10	762-75-4	
I,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 14:10	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 14:10	108-20-3	
Ethanol	ND ug/L	200	170	1		12/03/09 14:10		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 14:10		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 14:10		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 14:10		
Naphthalene	53.3 ug/L	5.0	2.9	1		12/03/09 14:10		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 14:10		
m&p-Xylene	anne-me an Allena						047139023903077337770707070	
	2.7J ug/L	10.0	2.7 1.7	1		12/03/09 14:10		
o-Xylene	38.4 ug/L	5.0	1.7	1		12/03/09 14:10		
Dibromofluoromethane (S)	101 %	85-115		1		12/03/09 14:10		
Foluene-d8 (S)	104 %	70-120		1		12/03/09 14:10		
I-Bromofluorobenzene (S) I,2-Dichloroethane-d4 (S)	106 % 100 %	87-109 79-120		1 1		12/03/09 14:10 12/03/09 14:10		
ron, Ferrous	Analytical Method: SM 3			3 9 1		.2.05.50 14.10	., 555 6, 6	
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:33		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 3					America Disconstruition Til		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Sample: MW-2D	Lab ID: 9258190003	Collected:	11/23/09	14:21	Received: 11/	24/09 10:10 Ma	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
3011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	ition Metho	d: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 11:26	12/06/09 17:23	106-93-4	
1-Chloro-2-bromopropane (S)	101 %	60-140		1	12/04/09 11:26	12/06/09 17:23	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ation Metho	d: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:14	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	ation Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 14:53	7440-38-2	
Barium, Dissolved	62.6 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 14:53	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 14:53	7440-43-9	
Chromium, Dissolved	ND ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 14:53		
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 14:53	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 14:53		
Silver, Dissolved	0.17J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 14:53		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ation Metho	d: EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:38	7439-97-6	
3260 MSV Oxygenates	Analytical Method: EPA	8260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 09:04	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 09:04	994-05-8	
Benzene	1.2J ug/L	5.0	1.2	1		12/03/09 09:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 09:04	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 09:04	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 09:04	762-75-4	
I,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 09:04	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 09:04	108-20-3	
Ethanol	ND ug/L	200	170	1		12/03/09 09:04		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 09:04		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 09:04		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 09:04		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 09:04		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 09:04		
m&p-Xylene	ND ug/L	10.0	2.7	1		12/03/09 09:04		
-Xylene	ND ug/L	5.0	1.7	1		12/03/09 09:04		
Dibromofluoromethane (S)	99 %	85-115	1	1		12/03/09 09:04		
Foluene-d8 (S)	114 %	70-120		1		12/03/09 09:04		
I-Bromofluorobenzene (S)	101 %	87-109		1		12/03/09 09:04		
,2-Dichloroethane-d4 (S)	107 %	79-120		1		12/03/09 09:04		
ron, Ferrous	Analytical Method: SM 3							
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:48		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Sample: MW-5	Lab ID: 9258190004	Collected:	11/23/09 12	2:22	Received: 11/2	24/09 10:10 M	atrix: Water	
Parameters	Results Units	Report Limit	MDL [DF_	Prepared	Analyzed	CAS No.	Qua
3011 GCS EDB and DBCP	Analytical Method: EPA	3011 Prepara	tion Method:	EPA	8011		- 1 2	
1,2-Dibromoethane (EDB)	ND ug/L	0.019	0.019	1	12/04/09 11:26	12/06/09 18:03	106-93-4	
1-Chloro-2-bromopropane (S)	95 %	60-140		1	12/04/09 11:26	12/06/09 18:03	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	tion Method:	EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:18	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	tion Method:	EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:07	7440-38-2	
Barium, Dissolved	12.9 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:07	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:07	7440-43-9	
Chromium, Dissolved	ND ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:07	7440-47-3	
Lead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:07	7439-92-1	
Selenium, Dissolved	5.2J ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:07	7782-49-2	Z2
Silver, Dissolved	0.30J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:07	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	tion Method:	EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:41	7439-97-6	
260 MSV Oxygenates	Analytical Method: EPA	3260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 19:13	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 19:13	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 19:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 19:13	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 19:13	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 19:13	762-75-4	
,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 19:13	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 19:13	108-20-3	
Ethanol	ND ug/L	200	170	1		12/03/09 19:13	64-17-5	
Ethylbenzene	1.8J ug/L	5.0	1.1	1		12/03/09 19:13	100-41-4	
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 19:13	637-92-3	
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 19:13	1634-04-4	
Naphthalene	ND ug/L	5.0		1		12/03/09 19:13		
Toluene	ND ug/L	5.0		1		12/03/09 19:13		
m&p-Xylene	ND ug/L	10.0		1		12/03/09 19:13		
-Xylene	ND ug/L	5.0		1		12/03/09 19:13		
Dibromofluoromethane (S)	94 %	85-115	10.0	1		12/03/09 19:13		
oluene-d8 (S)	101 %	70-120		1		12/03/09 19:13		
-Bromofluorobenzene (S)	104 %	87-109		1		12/03/09 19:13		
,2-Dichloroethane-d4 (S)	104 %	79-120		1		12/03/09 19:13		
ron, Ferrous	Analytical Method: SM 3	500-Fe D#4						
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:34		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						
Nitrogen, Nitrate	ND mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

					Received: 11/24/09 10:10 Matrix: Water				
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua	
8011 GCS EDB and DBCP	Analytical Method: EPA 8	3011 Prepara	tion Method	: EPA	8011		5-		
1,2-Dibromoethane (EDB)	ND ug/L	0.019	0.019	1	12/04/09 11:26	12/06/09 18:23	106-93-4		
1-Chloro-2-bromopropane (S)	96 %	60-140		1	12/04/09 11:26	12/06/09 18:23			
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ition Method	I: EPA	3010				
_ead	11.4 ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:22	7439-92-1		
010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	ation Method	I: EPA	3010				
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:10	7440-38-2		
Barium, Dissolved	88.2 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:10	7440-39-3	Z2	
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:10	7440-43-9		
Chromium, Dissolved	1.0J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:10		Z2	
_ead, Dissolved	6.5 ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:10		n-en-76	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:10			
Silver, Dissolved	0.18J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:10		Z2	
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ition Method	I: EPA	7470				
Mercury, Dissolved	0.12J ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:43	7439-97-6		
3260 MSV Oxygenates	Analytical Method: EPA 8	3260							
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 19:31	75-85-4		
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 19:31	994-05-8		
Benzene	ND ug/L	5.0	1.2	1		12/03/09 19:31	71-43-2		
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 19:31	624-95-3		
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 19:31	75-65-0		
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 19:31	762-75-4		
1,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 19:31	107-06-2		
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 19:31	108-20-3		
Ethanol	ND ug/L	200	170	1		12/03/09 19:31			
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 19:31			
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 19:31			
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 19:31			
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 19:31			
Toluene	ND ug/L	5.0	1.8	1		12/03/09 19:31			
m&p-Xylene	434 Maria (1944)						047139023903077337770707070		
	ND ug/L	10.0	2.7 1.7	1		12/03/09 19:31			
o-Xylene	ND ug/L	5.0	1.7	1		12/03/09 19:31			
Dibromofluoromethane (S)	96 %	85-115		1		12/03/09 19:31			
Toluene-d8 (S)	105 %	70-120		1		12/03/09 19:31			
4-Bromofluorobenzene (S) I,2-Dichloroethane-d4 (S)	105 % 105 %	87-109 79-120		1 1		12/03/09 19:31 12/03/09 19:31			
ron, Ferrous	Analytical Method: SM 3			30577		.2.05/00 10.01	1,000 01-0		
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:24		НЗ	
Autological States Control of States	04 (4 20 m)			•					
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA 3	555.Z							

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
3011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	tion Metho	d: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 18:44	106-93-4	
1-Chloro-2-bromopropane (S)	98 %	60-140		1	12/04/09 11:27	12/06/09 18:44	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ition Metho	d: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:26	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	ition Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:14	7440-38-2	
Barium, Dissolved	51.1 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:14	7440-39-3	Z2
Cadmium, Dissolved	0.51J ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:14	7440-43-9	Z2
Chromium, Dissolved	ND ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:14	7440-47-3	
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:14	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:14		
Silver, Dissolved	0.44J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:14		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ition Metho	d: EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:46	7439-97-6	
3260 MSV Oxygenates	Analytical Method: EPA	8260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 19:49	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 19:49	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 19:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 19:49	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 19:49	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 19:49	762-75-4	
1,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 19:49	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 19:49		
Ethanol	ND ug/L	200	170	1		12/03/09 19:49		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 19:49		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 19:49		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 19:49		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 19:49		
				1				
Toluene	ND ug/L	5.0	1.8			12/03/09 19:49		
m&p-Xylene	ND ug/L	10.0	2.7	1		12/03/09 19:49		
o-Xylene	ND ug/L	5.0	1.7	1		12/03/09 19:49		
Dibromofluoromethane (S)	95 %	85-115		1		12/03/09 19:49		
Toluene-d8 (S)	104 %	70-120		1		12/03/09 19:49		
4-Bromofluorobenzene (S)	101 %	87-109		1		12/03/09 19:49		
I,2-Dichloroethane-d4 (S)	103 %	79-120		1		12/03/09 19:49	1/060-07-0	
ron, Ferrous	Analytical Method: SM 3	500-Fe D#4						
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:26		НЗ
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
		-						
3011 GCS EDB and DBCP	Analytical Method: EPA	3011 Prepara	tion Method	: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 19:04	106-93-4	
1-Chloro-2-bromopropane (S)	103 %	60-140		1	12/04/09 11:27	12/06/09 19:04	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	tion Method	I: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:30	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	tion Method	I: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:17	7440-38-2	
Barium, Dissolved	22.5 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:17	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:17		
Chromium, Dissolved	1.3J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:17		Z2
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:17		5-05-TH
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:17		
Silver, Dissolved	0.19J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:17		Z2
7470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	tion Method	I: EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:48	7439-97-6	
260 MSV Oxygenates	Analytical Method: EPA	3260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 20:08	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 20:08	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 20:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 20:08		
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 20:08		
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 20:08	762-75-4	
I,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 20:08		
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 20:08		
Ethanol	ND ug/L	200	170	1		12/03/09 20:08		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 20:08		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 20:08		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 20:08		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 20:08		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 20:08		
m&p-Xylene	ND ug/L	10.0	2.7	1		12/03/09 20:08		
nap-Aylene p-Xylene	ND ug/L	5.0	1.7	1		12/03/09 20:08		
Dibromofluoromethane (S)	96 %	85-115	1.1	1		12/03/09 20:08		
Foluene-d8 (S)	104 %	70-120		1		12/03/09 20:08		
I-Bromofluorobenzene (S)	104 %	87-109		1				
,2-Dichloroethane-d4 (S)	104 %	79-120		1		12/03/09 20:08 12/03/09 20:08		
ron, Ferrous	Analytical Method: SM 3			3011			జుమాడుకున కోయి కో	
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:59		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						
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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Sample: MW-10	Lab ID: 9258190008	Collected:	11/23/09 1	0:45	Received: 11/2	24/09 10:10 M	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Method: EPA 8	R011 Prepara	tion Method:	FΡΔ		·	-	
						12/06/00 10:24	100 02 4	
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)	ND ug/L 96 %	0.020 60-140	0.020	1	12/04/09 11:27 12/04/09 11:27	12/06/09 19:24 12/06/09 19:24		
6010 MET ICP	Analytical Method: EPA	6010 Prepara	tion Method	: EPA	3010			
Lead	6.4 ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:33	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA 6	6010 Prepara	tion Method	: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:31	7440-38-2	
Barium, Dissolved	70.6 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:31	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:31	7440-43-9	
Chromium, Dissolved	2.1J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:31	7440-47-3	Z2
Lead, Dissolved	17.0 ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:31	7439-92-1	
Selenium, Dissolved	3.9J ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:31	7782-49-2	Z2
Silver, Dissolved	0.34J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:31	7440-22-4	Z2
7470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	tion Method	: EPA	7470			
Mercury, Dissolved	1.4 ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:51	7439-97-6	
3260 MSV Oxygenates	Analytical Method: EPA 8	3260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 20:26	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 20:26	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 20:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 20:26	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 20:26	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 20:26	762-75-4	
1,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 20:26	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 20:26	108-20-3	
Ethanol	ND ug/L	200	170	1		12/03/09 20:26	64-17-5	
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 20:26		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 20:26		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 20:26		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 20:26		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 20:26		
m&p-Xylene	3.3 J ug/L	10.0	2.7	1		12/03/09 20:26		
o-Xylene	2.1J ug/L	5.0	1.7	1		12/03/09 20:26		
Dibromofluoromethane (S)	95 %	85-115	Base #S	1		12/03/09 20:26		
Toluene-d8 (S)	105 %	70-120		1		12/03/09 20:26		
I-Bromofluorobenzene (S)	103 %	87-109		1		12/03/09 20:26		
1,2-Dichloroethane-d4 (S)	105 %	79-120		1		12/03/09 20:26		
ron, Ferrous	Analytical Method: SM 3	500-Fe D#4						
Iron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:30		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						
Nitrogen, Nitrate	1.1 mg/L	0.10	0.10	1		11/24/09 23:09		

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Sample: MW-11	Lab ID: 9258190009	Collected:	11/23/09	10:13	Received: 11/2	24/09 10:10 Ma	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
3011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	ition Metho	d: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 19:45	106-93-4	
1-Chloro-2-bromopropane (S)	99 %	60-140		1	12/04/09 11:27	12/06/09 19:45	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ation Metho	d: EPA	3010			
_ead	115 ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:37	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	ation Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:34	7440-38-2	
Barium, Dissolved	127 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:34	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:34	7440-43-9	
Chromium, Dissolved	1.8J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:34		Z2
_ead, Dissolved	46.9 ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:34	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:34		
Silver, Dissolved	0.25J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:34		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ation Metho	d: EPA	7470			
Mercury, Dissolved	0.16J ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 13:53	7439-97-6	
3260 MSV Oxygenates	Analytical Method: EPA	8260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 20:44	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 20:44	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 20:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 20:44	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 20:44	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 20:44	762-75-4	
,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 20:44	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 20:44	108-20-3	
Ethanol	ND ug/L	200	170	1		12/03/09 20:44		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 20:44		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 20:44		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 20:44		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 20:44		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 20:44		
n&p-Xylene	ND ug/L	10.0	2.7	1		12/03/09 20:44		
o-Xylene	ND ug/L	5.0	1.7	1		12/03/09 20:44		
	97 %		1.7	1		12/03/09 20:44		
Dibromofluoromethane (S)	104 %	85-115 70-120		1		12/03/09 20:44		
Foluene-d8 (S) I-Bromofluorobenzene (S)	104 %	87-109		1		12/03/09 20:44		
I,2-Dichloroethane-d4 (S)	102 %	79-120		1		12/03/09 20:44		
ron, Ferrous	Analytical Method: SM 3			X2.1		· · · · · · · · · · · · · · · · · · ·	antes to t	
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:26		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA							
Nitrogen, Nitrate	1.2 mg/L	0.10						

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Sample: MW-12	Lab ID: 9258190010	Collected:	11/23/09 1	3:00	Received: 11/	24/09 10:10 Ma	atrix: Water	
		Report						
Parameters	Results Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	ition Method:	EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 20:05	106-93-4	
1-Chloro-2-bromopropane (S)	106 %	60-140		1	12/04/09 11:27	12/06/09 20:05	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ation Method:	EPA	3010			
Lead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:42	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	ation Method:	EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:37	7440-38-2	
Barium, Dissolved	70.2 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:37	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:37	7440-43-9	
Chromium, Dissolved	1.1J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:37	7440-47-3	Z2
Lead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:37	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:37	7782-49-2	
Silver, Dissolved	0.18J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:37		Z2
7470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ation Method:	EPA	7470			
Mercury, Dissolved	1.2 ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:01	7439-97-6	
8260 MSV Oxygenates	Analytical Method: EPA	8260						
tert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 21:02	75-85-4	
tert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 21:02	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/03/09 21:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 21:02	624-95-3	
tert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 21:02	75-65-0	
tert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 21:02	762-75-4	
1,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 21:02	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 21:02	108-20-3	
Ethanol	ND ug/L	200	170	1		12/03/09 21:02	64-17-5	
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 21:02		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 21:02		
Methyl-tert-butyl ether	14.0 ug/L	5.0	2.0	1		12/03/09 21:02		
Naphthalene	ND ug/L	5.0	2.9	1		12/03/09 21:02		
Toluene	ND ug/L	5.0	1.8	1		12/03/09 21:02		
m&p-Xylene		10.0	2.7	1		12/03/09 21:02	CONTROL PROGRAMMA CONTROL	
o-Xylene	ND ug/L ND ug/L	5.0	1.7	1		12/03/09 21:02		
Dibromofluoromethane (S)	95 %		1.7			12/03/09 21:02		
15 miles de 18 miles de 18 miles 2000 miles de 1900 miles de 1900 miles de 1900 miles de 1900 miles de 1900 miles		85-115		1				
Toluene-d8 (S)	106 %	70-120		1		12/03/09 21:02		
4-Bromofluorobenzene (S) 1,2-Dichloroethane-d4 (S)	105 % 104 %	87-109 79-120		1		12/03/09 21:02 12/03/09 21:02		
				9		12/03/09 21.02	17060-07-0	
Iron, Ferrous	Analytical Method: SM 3		0.50	4		12/04/00 24:22		114
Iron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:38		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						
Nitrogen, Nitrate	6.5 mg/L	0.10	0.10	1		11/24/09 23:09		

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Project: FORMER RYDER TRUCK

				13:15	Received: 11/2		atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	tion Metho	d: EPA	8011		52.	
1,2-Dibromoethane (EDB)	0.46 ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 20:25	106-93-4	
I-Chloro-2-bromopropane (S)	105 %	60-140		1	12/04/09 11:27	12/06/09 20:25		
6010 MET ICP	Analytical Method: EPA	6010 Prepara	tion Metho	d: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:46	7439-92-1	
010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	tion Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:40	7440-38-2	
Barium, Dissolved	43.6 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:40	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:40		
Chromium, Dissolved	ND ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:40		
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:40		
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:40		
Silver, Dissolved	0.48J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:40		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	ition Metho	d: EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:04	7439-97-6	
260 MSV Oxygenates	Analytical Method: EPA	3260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/03/09 21:21	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/03/09 21:21	994-05-8	
Benzene	23.6 ug/L	5.0	1.2	1		12/03/09 21:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/03/09 21:21	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/03/09 21:21	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/03/09 21:21	762-75-4	
I,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/03/09 21:21		
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/03/09 21:21		
Ethanol	ND ug/L	200	170	1		12/03/09 21:21		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/03/09 21:21		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/03/09 21:21		
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/03/09 21:21		
Naphthalene	58.4 ug/L	5.0	2.9	1		12/03/09 21:21		
Toluene		5.0	1.8	1		12/03/09 21:21		
	ND ug/L							
m&p-Xylene	17.0 ug/L	10.0	2.7	1		12/03/09 21:21		
o-Xylene	52.4 ug/L	5.0	1.7	1		12/03/09 21:21		
Dibromofluoromethane (S)	95 %	85-115		1		12/03/09 21:21		
Foluene-d8 (S)	105 %	70-120		1		12/03/09 21:21		
I-Bromofluorobenzene (S) I,2-Dichloroethane-d4 (S)	103 % 106 %	87-109 79-120		1 1		12/03/09 21:21 12/03/09 21:21		
ron, Ferrous	Analytical Method: SM 3			3.5 1		.2.05/00 21.21	1, 555 51-0	
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:40		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA			(22)				sersett.
33.2 Millogen, NO2/NO3 unbles								

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ANALYTICAL RESULTS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Sample: MW-14	Lab ID: 925819001	2 Collected:	11/23/09	13:30	Received: 11/	24/09 10:10 M	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Method: EP	A 8011 Prepara	tion Metho	d: EPA	8011			
1,2-Dibromoethane (EDB)	0.084 ug/L	0.020	0.020	1	12/04/09 11:27	12/06/09 20:46	106-93-4	
1-Chloro-2-bromopropane (S)	89 %	60-140		1	12/04/09 11:27	12/06/09 20:46	301-79-56	
6010 MET ICP	Analytical Method: EP	A 6010 Prepara	ition Metho	od: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/01/09 16:30	12/05/09 01:50	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EP	A 6010 Prepara	ition Metho	od: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:43	7440-38-2	
Barium, Dissolved	29.1 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:43	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:43	7440-43-9	
Chromium, Dissolved	ND ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:43	7440-47-3	
Lead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:43	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:43		
Silver, Dissolved	0.36J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:43		Z2
7470 Mercury, Dissolved	Analytical Method: EP	A 7470 Prepara	ition Metho	od: EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:06	7439-97-6	
260 MSV Oxygenates	Analytical Method: EP	A 8260						
ert-Amyl Alcohol	ND ug/L	200	124	2		12/07/09 15:06	75-85-4	
ert-Amylmethyl ether	ND ug/L	20.0	9.0	2		12/07/09 15:06	994-05-8	
Benzene	150 ug/L	10.0	2.4	2		12/07/09 15:06	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	200	96.0	2		12/07/09 15:06	624-95-3	
ert-Butyl Alcohol	ND ug/L	200	54.0	2		12/07/09 15:06	75-65-0	
ert-Butyl Formate	ND ug/L	100	18.0	2		12/07/09 15:06	762-75-4	
1,2-Dichloroethane	ND ug/L	10.0	2.6	2		12/07/09 15:06	107-06-2	
Diisopropyl ether	ND ug/L	10.0	5.4	2		12/07/09 15:06		
Ethanol	ND ug/L	400	340	2		12/07/09 15:06		
Ethylbenzene	263 ug/L	10.0	2.2	2		12/07/09 15:06		
Ethyl-tert-butyl ether	ND ug/L	20.0	9.2	2		12/07/09 15:06		
Methyl-tert-butyl ether	ND ug/L	10.0	4.0	2		12/07/09 15:06		
Naphthalene	81.5 ug/L	10.0	5.8	2		12/07/09 15:06		
Toluene	10.5 ug/L	10.0	3.6	2		12/07/09 15:06		
	8.0J ug/L	20.0	5.4	2				
m&p-Xylene						12/07/09 15:06		
o-Xylene	85.8 ug/L	10.0	3.4	2		12/07/09 15:06		
Dibromofluoromethane (S)	96 %	85-115		2		12/07/09 15:06		
Toluene-d8 (S)	93 %	70-120		2		12/07/09 15:06		
4-Bromofluorobenzene (S)	107 %	87-109		2		12/07/09 15:06		
1,2-Dichloroethane-d4 (S)	99 %	79-120		2		12/07/09 15:06	1/060-07-0	
ron, Ferrous	Analytical Method: SM							
Iron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 21:41		H1
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EP	A 353.2						
Nitrogen, Nitrate	ND mg/L	0.10	0.10	1		11/24/09 23:09		

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: OEXT/8718 Analysis Method: EPA 8011

QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP

Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008,

9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 374685 Matrix: Water

Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008,

9258190009, 9258190010, 9258190011, 9258190012

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	12/06/09 14:19	
1-Chloro-2-bromopropane (S)	%	100	60-140	12/06/09 14:19	

LABORATORY CONTROL SAMPL	E & LCSD: 374686		3	74687						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.29	0.32	0.30	112	104	60-140	7	20	
1-Chloro-2-bromopropane (S)	%				104	100	60-140			

MATRIX SPIKE & MATRIX SPIK	(E DUPLICAT	E: 37468	9		374690							
	92	258272003	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)	ug/L %	ND	.28	.28	0.29	0.29	104 98	104 101	60-140 60-140	0	20	

SAMPLE DUPLICATE: 3746	880
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Date: 12/10/2009 03:57 PM

		9258190003	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%		101	1		

REPORT OF LABORATORY ANALYSIS





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

% Rec

Max

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Date: 12/10/2009 03:57 PM

QC Batch: MPRP/5463 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET

Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008,

9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372900 Matrix: Water

Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008,

9258190009, 9258190010, 9258190011, 9258190012

Blank Reporting
Parameter Units Result Limit Analyzed Qualifiers

Lead ug/L ND 5.0 12/05/09 00:50

LABORATORY CONTROL SAMPLE: 372901

Spike LCS LCS % Rec
Parameter Units Conc. Result % Rec Limits Qualifiers

Lead ug/L 500 490 98 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 372941 372942

MS MSD 9258272003 Spike Spike MS MSD MS MSD

RPD RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual 4.7J Lead 500 500 457 462 90 91 75-125 20 ug/L



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: MPRP/5446 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered

Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008,

9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372150 Matrix: Water

Associated Lab Samples: 9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008,

9258190009, 9258190010, 9258190011, 9258190012

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	3.5J	5.0	12/01/09 14:01	
Barium, Dissolved	ug/L	3.3J	5.0	12/01/09 14:01	
Cadmium, Dissolved	ug/L	0.83J	1.0	12/01/09 14:01	
Chromium, Dissolved	ug/L	3.0J	5.0	12/01/09 14:01	
Lead, Dissolved	ug/L	ND	5.0	12/01/09 14:01	
Selenium, Dissolved	ug/L	5.1J	10.0	12/01/09 14:01	
Silver, Dissolved	ug/L	1.5J	5.0	12/01/09 14:01	

LABORATORY CONTROL SAMPLE: 372151

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	498	100	80-120	
Barium, Dissolved	ug/L	500	509	102	80-120	
Cadmium, Dissolved	ug/L	500	506	101	80-120	
Chromium, Dissolved	ug/L	500	509	102	80-120	
Lead, Dissolved	ug/L	500	496	99	80-120	
Selenium, Dissolved	ug/L	500	499	100	80-120	
Silver, Dissolved	ug/L	250	261	104	80-120	

MATRIX SPIKE SAMPLE:	372152						
		9257466001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic, Dissolved	ug/L	9.7	500	434	85	75-125	
Barium, Dissolved	ug/L	236	500	648	82	75-125	
Cadmium, Dissolved	ug/L	ND	500	408	82	75-125	
Chromium, Dissolved	ug/L	19.4	500	429	82	75-125	
Lead, Dissolved	ug/L	39.0	500	435	79	75-125	
Selenium, Dissolved	ug/L	ND	500	427	85	75-125	
Silver, Dissolved	ug/L	ND	250	216	86	75-125	

SAMPLE DUPLICATE: 372153

		9257466002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Arsenic, Dissolved	ug/L	17.3	22.4	26	20	R1
Barium, Dissolved	ug/L	1020	1030	1	20	
Cadmium, Dissolved	ug/L	1.1	1.3	13	20	
Chromium, Dissolved	ug/L	ND	1.5J		20	

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

SAMPLE DUPLICATE: 372153

Parameter	Units	9257466002 Result	Dup Result	RPD	Max RPD	Qualifiers
Lead, Dissolved	ug/L	ND ND	ND		20	
Selenium, Dissolved	ug/L	27.0	25.0	8	20	
Silver, Dissolved	ug/L	ND	4.2J		20	

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Reporting

FORMER RYDER TRUCK Project:

Pace Project No.: 9258190

QC Batch: MERP/2527 Analysis Method: EPA 7470

QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury Dissolved

9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, Associated Lab Samples:

9258190009, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372167 Matrix: Water

9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, Associated Lab Samples:

9258190009, 9258190010, 9258190011, 9258190012

Blank Parameter Units Result Limit Analyzed Qualifiers

Mercury, Dissolved ug/L ND 0.20 12/01/09 12:46

LABORATORY CONTROL SAMPLE: 372168

LCS LCS % Rec Spike Parameter Units Conc. Result % Rec Limits Qualifiers Mercury, Dissolved 2.4 95 80-120 ug/L 2.5

MATRIX SPIKE SAMPLE: 372169

9257466001 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers

ND Mercury, Dissolved 2.5 2.3 88 75-125 ug/L

SAMPLE DUPLICATE: 372170

9257466002 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers ND Mercury, Dissolved ug/L 0.50 25

Date: 12/10/2009 03:57 PM







Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: MSV/9211 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates

Associated Lab Samples: 9258190001, 9258190002, 9258190003

METHOD BLANK: 373610 Matrix: Water

Associated Lab Samples: 9258190001, 9258190002, 9258190003

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/03/09 01:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/03/09 01:13	
Benzene	ug/L	ND	5.0	12/03/09 01:13	
Diisopropyl ether	ug/L	ND	5.0	12/03/09 01:13	
Ethanol	ug/L	ND	200	12/03/09 01:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/03/09 01:13	
Ethylbenzene	ug/L	ND	5.0	12/03/09 01:13	
m&p-Xylene	ug/L	ND	10.0	12/03/09 01:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/03/09 01:13	
Naphthalene	ug/L	ND	5.0	12/03/09 01:13	
o-Xylene	ug/L	ND	5.0	12/03/09 01:13	
tert-Amyl Alcohol	ug/L	ND	100	12/03/09 01:13	
tert-Amylmethyl ether	ug/L	ND	10.0	12/03/09 01:13	
tert-Butyl Alcohol	ug/L	ND	100	12/03/09 01:13	
tert-Butyl Formate	ug/L	ND	50.0	12/03/09 01:13	
Toluene	ug/L	ND	5.0	12/03/09 01:13	
1,2-Dichloroethane-d4 (S)	%	104	79-120	12/03/09 01:13	
4-Bromofluorobenzene (S)	%	101	87-109	12/03/09 01:13	
Dibromofluoromethane (S)	%	98	85-115	12/03/09 01:13	
Toluene-d8 (S)	%	92	70-120	12/03/09 01:13	

LABORATORY	CONTROL SAMPLE:	373611
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	56.9	114	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1200	120	55-148	
Benzene	ug/L	50	47.5	95	78-128	
Diisopropyl ether	ug/L	50	49.3	99	74-131	
Ethanol	ug/L	2000	2280	114	53-150	
Ethyl-tert-butyl ether	ug/L	100	114	114	77-136	
Ethylbenzene	ug/L	50	52.5	105	80-127	
m&p-Xylene	ug/L	100	106	106	82-127	
Methyl-tert-butyl ether	ug/L	50	53.8	108	71-130	
Naphthalene	ug/L	50	57.5	115	52-136	
o-Xylene	ug/L	50	55.4	111	83-124	
tert-Amyl Alcohol	ug/L	1000	1260	126	50-150	
tert-Amylmethyl ether	ug/L	100	106	106	50-150	
tert-Butyl Alcohol	ug/L	500	552	110	50-150	
tert-Butyl Formate	ug/L	400	416	104	50-150	
Toluene	ug/L	50	46.6	93	76-126	
1,2-Dichloroethane-d4 (S)	%			104	79-120	

Date: 12/10/2009 03:57 PM REPORT OF LABORATORY ANALYSIS Page 24 of 34





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Date: 12/10/2009 03:57 PM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			88	70-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 37361	2		373613							
	92	258450009	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	ND	50	50	53.9	52.0	108	104	74-136	4	30	
Toluene	ug/L	ND	50	50	62.0	59.6	124	119	73-131	4	30	
1,2-Dichloroethane-d4 (S)	%						104	105	79-120			
4-Bromofluorobenzene (S)	%						101	102	87-109			
Dibromofluoromethane (S)	%						94	95	85-115			
Toluene-d8 (S)	%						104	104	70-120			

REPORT OF LABORATORY ANALYSIS

nelac





Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: MSV/9218 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates

9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011 Associated Lab Samples:

METHOD BLANK: 374213 Matrix: Water

Associated Lab Samples: 9258190004, 9258190005, 9258190006, 9258190007, 9258190008, 9258190009, 9258190010, 9258190011

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/03/09 13:33	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/03/09 13:33	
Benzene	ug/L	ND	5.0	12/03/09 13:33	
Diisopropyl ether	ug/L	ND	5.0	12/03/09 13:33	
Ethanol	ug/L	ND	200	12/03/09 13:33	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/03/09 13:33	
Ethylbenzene	ug/L	ND	5.0	12/03/09 13:33	
m&p-Xylene	ug/L	ND	10.0	12/03/09 13:33	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/03/09 13:33	
Naphthalene	ug/L	ND	5.0	12/03/09 13:33	
o-Xylene	ug/L	ND	5.0	12/03/09 13:33	
tert-Amyl Alcohol	ug/L	ND	100	12/03/09 13:33	
tert-Amylmethyl ether	ug/L	ND	10.0	12/03/09 13:33	
tert-Butyl Alcohol	ug/L	ND	100	12/03/09 13:33	
tert-Butyl Formate	ug/L	ND	50.0	12/03/09 13:33	
Toluene	ug/L	ND	5.0	12/03/09 13:33	
1,2-Dichloroethane-d4 (S)	%	100	79-120	12/03/09 13:33	
4-Bromofluorobenzene (S)	%	100	87-109	12/03/09 13:33	
Dibromofluoromethane (S)	%	97	85-115	12/03/09 13:33	
Toluene-d8 (S)	%	104	70-120	12/03/09 13:33	

LABORATORY CONTROL SAMPLE: 374214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	57.6	115	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	965	96	55-148	
Benzene	ug/L	50	48.0	96	78-128	
Diisopropyl ether	ug/L	50	58.4	117	74-131	
Ethanol	ug/L	2000	2270	114	53-150	
Ethyl-tert-butyl ether	ug/L	100	119	119	77-136	
Ethylbenzene	ug/L	50	54.6	109	80-127	
m&p-Xylene	ug/L	100	110	110	82-127	
Methyl-tert-butyl ether	ug/L	50	55.2	110	71-130	
Naphthalene	ug/L	50	56.3	113	52-136	
o-Xylene	ug/L	50	55.9	112	83-124	
tert-Amyl Alcohol	ug/L	1000	1080	108	50-150	
tert-Amylmethyl ether	ug/L	100	103	103	50-150	
tert-Butyl Alcohol	ug/L	500	509	102	50-150	
tert-Butyl Formate	ug/L	400	384	96	50-150	
Toluene	ug/L	50	58.4	117	76-126	
1,2-Dichloroethane-d4 (S)	%			103	79-120	

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

LABORATORY	CONTROL SAMPLE:	374214

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%	 -		106	87-109	
Dibromofluoromethane (S)	%			99	85-115	
Toluene-d8 (S)	%			108	70-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 37421	5		374216							
	Q [*]	258190006	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	ND	50	50	53.7	50.6	107	101	74-136	6	30	
Toluene	ug/L	ND	50	50	58.4	58.1	117	116	73-131	1	30	
1,2-Dichloroethane-d4 (S)	%						101	104	79-120			
4-Bromofluorobenzene (S)	%						104	104	87-109			
Dibromofluoromethane (S)	%						95	97	85-115			
Toluene-d8 (S)	%						101	101	70-120			

Date: 12/10/2009 03:57 PM REF







QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: MSV/9250 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates

Associated Lab Samples: 9258190012

METHOD BLANK: 375691 Matrix: Water

Associated Lab Samples: 9258190012

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/07/09 12:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/07/09 12:02	
Benzene	ug/L	ND	5.0	12/07/09 12:02	
Diisopropyl ether	ug/L	ND	5.0	12/07/09 12:02	
Ethanol	ug/L	ND	200	12/07/09 12:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/07/09 12:02	
Ethylbenzene	ug/L	ND	5.0	12/07/09 12:02	
m&p-Xylene	ug/L	ND	10.0	12/07/09 12:02	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/07/09 12:02	
Naphthalene	ug/L	ND	5.0	12/07/09 12:02	
o-Xylene	ug/L	ND	5.0	12/07/09 12:02	
tert-Amyl Alcohol	ug/L	ND	100	12/07/09 12:02	
tert-Amylmethyl ether	ug/L	ND	10.0	12/07/09 12:02	
tert-Butyl Alcohol	ug/L	ND	100	12/07/09 12:02	
tert-Butyl Formate	ug/L	ND	50.0	12/07/09 12:02	
Toluene	ug/L	ND	5.0	12/07/09 12:02	
1,2-Dichloroethane-d4 (S)	%	97	79-120	12/07/09 12:02	
4-Bromofluorobenzene (S)	%	104	87-109	12/07/09 12:02	
Dibromofluoromethane (S)	%	93	85-115	12/07/09 12:02	
Toluene-d8 (S)	%	104	70-120	12/07/09 12:02	

LABORATORY	CONTROL SAMPLE:	375692
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	56.4	113	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1090	109	55-148	
Benzene	ug/L	50	45.6	91	78-128	
Diisopropyl ether	ug/L	50	50.8	102	74-131	
Ethanol	ug/L	2000	2070	103	53-150	
Ethyl-tert-butyl ether	ug/L	100	108	108	77-136	
Ethylbenzene	ug/L	50	49.9	100	80-127	
m&p-Xylene	ug/L	100	101	101	82-127	
Methyl-tert-butyl ether	ug/L	50	50.3	101	71-130	
Naphthalene	ug/L	50	50.1	100	52-136	
o-Xylene	ug/L	50	51.3	103	83-124	
tert-Amyl Alcohol	ug/L	1000	1130	113	50-150	
tert-Amylmethyl ether	ug/L	100	98.5	98	50-150	
tert-Butyl Alcohol	ug/L	500	510	102	50-150	
tert-Butyl Formate	ug/L	400	410	102	50-150	
Toluene	ug/L	50	53.0	106	76-126	
1,2-Dichloroethane-d4 (S)	%			103	79-120	

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REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

LABORATORY	CONTROL	SAMPLE:	375692
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Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			107	87-109	
Dibromofluoromethane (S)	%			97	85-115	
Toluene-d8 (S)	%			106	70-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 37569	3		375694							
	92	258542005	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	ND	50	50	55.8	64.1	111	128	74-136	14	30	
Toluene	ug/L	ND	50	50	70.7	77.9	141	156	73-131	10	30	M0
1,2-Dichloroethane-d4 (S)	%						106	110	79-120			
4-Bromofluorobenzene (S)	%						106	106	87-109			
Dibromofluoromethane (S)	%						101	101	85-115			
Toluene-d8 (S)	%						115	112	70-120			

Date: 12/10/2009 03:57 PM REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: WET/10627 Analysis Method: SM 3500-Fe D#4
QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous

Associated Lab Samples: 9258190001, 9258190002, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009

METHOD BLANK: 372378 Matrix: Water

Associated Lab Samples: 9258190001, 9258190002, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009

Blank Reporting

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Iron, Ferrous
 mg/L
 ND
 0.50
 12/01/09 21:02

LABORATORY CONTROL SAMPLE: 372379

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Iron, Ferrous mg/L 1.5 1.6 108 90-110

SAMPLE DUPLICATE: 372380

 Parameter
 Units
 9257894012 Result
 Dup Result
 Max Result
 RPD
 Qualifiers

 Iron, Ferrous
 mg/L
 ND
 ND
 20

SAMPLE DUPLICATE: 372381

 Parameter
 Units
 9257966015 Result
 Dup Result
 Max Result
 RPD
 Qualifiers

 Iron, Ferrous
 mg/L
 ND
 ND
 20

Date: 12/10/2009 03:57 PM





Qualifiers

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

Iron, Ferrous

QC Batch: WET/10628 Analysis Method: SM 3500-Fe D#4 QC Batch Method: SM 3500-Fe D#4 Analysis Description: Iron, Ferrous Associated Lab Samples: 9258190003, 9258190007, 9258190010, 9258190011, 9258190012

METHOD BLANK: 372382 Matrix: Water

Associated Lab Samples: 9258190003, 9258190007, 9258190010, 9258190011, 9258190012

Blank

Reporting Parameter

Limit Units Result Analyzed mg/L ND 12/01/09 21:35

LABORATORY CONTROL SAMPLE: 372383

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Iron, Ferrous mg/L 1.5 1.7 110 90-110

SAMPLE DUPLICATE: 372384

9258190010 Dup Max RPD RPD Units Result Parameter Result

Qualifiers ND ND 20 Iron, Ferrous mg/L

SAMPLE DUPLICATE: 372385

9258287010 Dup Max RPD RPD Parameter Units Result Result Qualifiers ND Iron, Ferrous mg/L ND 20

Date: 12/10/2009 03:57 PM



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

FORMER RYDER TRUCK Project:

Pace Project No.: 9258190

QC Batch: WETA/6320 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009, Associated Lab Samples:

9258190010, 9258190011, 9258190012

METHOD BLANK: 371350 Matrix: Water

9258190001, 9258190002, 9258190003, 9258190004, 9258190005, 9258190006, 9258190008, 9258190009, Associated Lab Samples:

9258190010, 9258190011, 9258190012

Units

Blank Reporting Parameter Units Result Limit Analyzed Qualifiers

Spike

Conc.

Nitrogen, Nitrate mg/L ND 0.10 11/24/09 23:09

LABORATORY CONTROL SAMPLE: 371351

Parameter

5 5.4 108 90-110 Nitrogen, Nitrate mg/L MATRIX SPIKE SAMPLE: 371352 9258190005 Spike MS MS % Rec % Rec Parameter Units Result Conc. Result Limits Qualifiers mg/L 1.6 Nitrogen, Nitrate 5 8.1 129 90-110 MO

LCS

Result

LCS

% Rec

% Rec

Limits

Qualifiers

MATRIX SPIKE SAMPLE: 371353

9258190006 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 0.90 Nitrogen, Nitrate 5 6.2 106 90-110 mg/L

SAMPLE DUPLICATE: 371354

9258190009 Dup Max RPD Result **RPD** Parameter Units Result Qualifiers 1.2 1.2 20 Nitrogen, Nitrate mg/L 1

SAMPLE DUPLICATE: 371355

9258190008 Dup Max RPD RPD Qualifiers Parameter Units Result Result 1.1 Nitrogen, Nitrate 1.1 0 20 mg/L

Date: 12/10/2009 03:57 PM REPORT OF LABORATORY ANALYSIS

EPA 353.2

Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

QC Batch: WETA/6322

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 9258190007

METHOD BLANK: 371384 Matrix: Water

Associated Lab Samples: 9258190007

Parameter Units Result Limit Analyzed Qualifiers

Analysis Method:

Nitrogen, Nitrate mg/L ND 0.10 11/25/09 10:00

LABORATORY CONTROL SAMPLE: 371385

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Nitrate mg/L 5 5.3 105 90-110

MATRIX SPIKE SAMPLE: 371386

9258191003 Spike MS MS % Rec Units Conc. Result % Rec Limits Qualifiers Parameter Result 2.1 5 7.4 106 90-110 Nitrogen, Nitrate mg/L

MATRIX SPIKE SAMPLE: 371387

9258287006 Spike MS MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers 0.93 Nitrogen, Nitrate mg/L 5 7.0 122 90-110 M0

SAMPLE DUPLICATE: 371388

9258287002 Dup Max RPD Parameter Units Result Result RPD Qualifiers 0.77 2 Nitrogen, Nitrate 0.78 20 mg/L

SAMPLE DUPLICATE: 371389

9258287003 Dup Max Parameter Units Result Result RPD RPD Qualifiers Nitrogen, Nitrate 0.22 0.21 4 20 mg/L

Date: 12/10/2009 03:57 PM





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALIFIERS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258190

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

Date: 12/10/2009 03:57 PM

H1	Analysis conducted outside the EPA method holding time.
H3	Sample was received outside EPA method holding time.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

Z2 Analyte present in the associated method blank above the detection limit.

REPORT OF LABORATORY ANALYSIS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.



December 01, 2009

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville NC 28078

TEL: (704) 875-9092 FAX: (704) 875-9091

RE: 9258190

Dear Kevin Godwin: Order No: 0911K67

Analytical Environmental Services, Inc. received 12 samples on November 25, 2009 11:50 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.

AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
- -AIHA Certification ID #100671 for Industrial Hygiene samples (Organics, Inorganics), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) effective until 09/01/11.

These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

James Forrest

Project Manager

0911160

Results Requested

12/10/2009

Requested Analysis

FORMER RYDER TRUCK

Workorder Name:

Subcontract To

Chain of Custody

Report / Invoice To Workorder: 9258190

Kevin Godwin

P.O. CHS06363

14 3 16 5 12 6 Item Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Email: kevin.godwin@pacelabs.com Phone (704)875-9092 MW-14 MW-12 MW-11 MW-9 MW-8 MW-7 MW-2D MW-10 MW-5 MW-2 MW-1 MW-13 Sample ID 11/23/2009 13:00 Collect 11/23/2009 13:15 11/23/2009 10:00 11/23/2009 12:10 11/23/2009 13:30 11/23/2009 10:13 11/23/2009 10:45 11/23/2009 15:37 11/23/2009 09:45 11/23/2009 12:22 11/23/2009 14:21 11/23/2009 11:59 Date/Time 9258190002 Cab (B) 9258190012 9258190011 9258190010 9258190009 9258190008 9258190007 9258190006 9258190005 9258190004 9258190003 9258190001 AES Water Water Water Water Water Water Water Water Water Water Water Water Matrix Unpreserved 12 te (& LAB USE ONLY

9 8 6 5 3

, e					Comments
Transfers	Released By	Date/Time	Received By	Date/Time	
1	11. Dest	11/24/09 17:00	Tre dex		
2		, ,	Whaty	11/2519	
3					
4					
5					

Page 3 of 17

Client: Pace Analytical Services, Inc. Client Sample ID: MW-1

Project: 9258190 Collection Date: 11/23/2009 11:59:00 AM

Lab ID: 0911K67-001 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								
Sulfate		2.5	1.0		mg/L	R160767	1	11/27/2009 11:38	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-2

Project: 9258190 **Collection Date:** 11/23/2009 12:10:00 PM

Lab ID: 0911K67-002 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								_
Sulfate		BRL	1.0		mg/L	R160767	1	11/27/2009 11:53	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-2D

Project: 9258190 Collection Date: 11/23/2009 2:21:00 PM

Lab ID: 0911K67-003 **Matrix:** Aqueous

Analyses		Result	Reporting Limit	g Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								
Sulfate		14	1.0		mg/L	R160767	7 1	11/27/2009 12:07	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-5

Project: 9258190 **Collection Date:** 11/23/2009 12:22:00 PM

Lab ID: 0911K67-004 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								
Sulfate		3.3	1.0		mg/L	R160767	1	11/27/2009 12:22	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-7

Project: 9258190 Collection Date: 11/23/2009 9:45:00 AM

Lab ID: 0911K67-005 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor		Analyst
ION SCAN	SW9056A								
Sulfate		1.4	1.0		mg/L	R160767	1	11/27/2009 14:20	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-8

Project: 9258190 **Collection Date:** 11/23/2009 10:00:00 AM

Lab ID: 0911K67-006 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								
Sulfate		BRL	1.0		mg/L	R160767	1	11/27/2009 14:34	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-9

Project: 9258190 Collection Date: 11/23/2009 3:37:00 PM

Lab ID: 0911K67-007 Matrix: Aqueous

Analyses		Result	Reporting	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
			Limit				Factor		
ION SCAN	SW9056A								
~ 10 .					fr.	D4 40 = 4=			an.
Sulfate		1.7	1.0		mg/L	R160767	1	11/27/2009 14:49	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-10

Project: 9258190 **Collection Date:** 11/23/2009 10:45:00 AM

Lab ID: 0911K67-008 Matrix: Aqueous

l										
	Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
	ION SCAN	SW9056A								
	Sulfate		BRL	1.0		mg/L	R160767	1	11/27/2009 15:04	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-11

Project: 9258190 **Collection Date:** 11/23/2009 10:13:00 AM

Lab ID: 0911K67-009 Matrix: Aqueous

Analyses		Result	Reporting	Qual	Units	BatchID	Dilution	Date Analyzed	Analyst	
				Limit				Factor	v	
	ION SCAN	SW9056A								
	Sulfate		BRL	1.0		mg/L	R160767	1	11/27/2009 15:18	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-12

Project: 9258190 Collection Date: 11/23/2009 1:00:00 PM

Lab ID: 0911K67-010 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								
Sulfate		BRL	1.0		mg/L	R160767	1	11/27/2009 15:33	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-13

Project: 9258190 Collection Date: 11/23/2009 1:15:00 PM

Lab ID: 0911K67-011 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
ION SCAN	SW9056A								
Sulfate		12	1.0		mg/L	R160767	1	11/27/2009 15:48	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Client: Pace Analytical Services, Inc. Client Sample ID: MW-14

Project: 9258190 Collection Date: 11/23/2009 1:30:00 PM

Lab ID: 0911K67-012 Matrix: Aqueous

Analyses		Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor		Analyst
ION SCAN	SW9056A								
Sulfate		1.2	1.0		mg/L	R160767	' 1	11/27/2009 17:01	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Sample/Cooler Receipt Checklist

Client PACE		Work Orde	r Number <u>09((</u> <u> </u>
Checklist completed by	1/25/1		
Carrier name: FedExUPS Courier Client US	S Mail Other	r	_
Shipping container/cooler in good condition?	Yes _	No	Not Present
Custody seals intact on shipping container/cooler?	Yes _	No	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*			
Cooler #1 3.5 Cooler #2 Cooler #3	_ Cooler #4 _	Co	oler#5 Cooler #6
Chain of custody present?	Yes	No	
Chain of custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample labels?	Yes _	No _	
Samples in proper container/bottle?	Yes _c_	No	
Sample containers intact?	Yes	No	
Sufficient sample volume for indicated test?	Yes	No	
All samples received within holding time?	Yes	No _	
Was TAT marked on the COC?	Yes _	No	
Proceed with Standard TAT as per project history?	Yes	No	Not Applicable
Water - VOA vials have zero headspace? No VOA vials su	Ibmitted	Yes _	No
Water - pH acceptable upon receipt?	Yes	No	Not Applicable
Adjusted?			
Sample Condition: Good Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank include	led? Yes	1	No a

See Case Narrative for resolution of the Non-Conformance.

\L\Quality Assurance\Checklists Procedures Sign-Off Templates\Checklists\Sample Receipt Checklists\Sample_Cooler_Receipt_Checklist

^{*} Samples do not have to comply with the given range for certain parameters.

CLIENT: Pace Analytical Services, Inc.

Work Order: 0911K67 9258190 **Project:**

ANALYTICAL QC SUMMARY REPORT

Date: 01-Dec-09

TestCode: ION SCAN SW9056A

Sample ID:	MB-R16076	67	SampType:	MBLK	Batch ID	: R160767	Units: mg/L		Prep Da	te:		RunNo: 160	767	
Client ID:			TestCode:	ION SCAN	SW9056A				Analysis Da	te: 11/27/2	2009	SeqNo: 332	23428	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate				BRL	1.0	0	0	0	0	0	0	0		
Sample ID:	LCS-R1607	67	SampType:	LCS	Batch ID	: R160767	Units: mg/L		Prep Da	te:		RunNo: 160	767	
Client ID:			TestCode:	ION SCAN	SW9056A				Analysis Da	te: 11/27/2	2009	SeqNo: 332	23425	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate				26.79	1.0	25	0.3265	106	90	110	0	0		
Sample ID:	0911K16-0	3EMS	SampType:	мѕ	Batch ID	: R160767	Units: mg/L		Prep Da	te:		RunNo: 160	767	
Client ID:			TestCode:	ION SCAN	SW9056A				Analysis Da	te: 11/27/2	2009	SeqNo: 332	23435	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate				27.15	1.0	25	0.5843	106	90	110	0	0		
Sample ID:	0911K67-0	D5AMS	SampType:	мѕ	Batch ID	: R160767	Units: mg/L		Prep Da	te:		RunNo: 160	767	
Client ID:	MW-7		TestCode:	ION SCAN	SW9056A				Analysis Da	te: 11/27/2	2009	SeqNo: 332	23448	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate				27.22	1.0	25	1.435	103	90	110	0	0		
Sample ID:	0911K16-0	3EMSD	SampType:	MSD	Batch ID	: R160767	Units: mg/L		Prep Da	te:		RunNo: 160	767	
Client ID:			TestCode:	ION SCAN	SW9056A				Analysis Da	te: 11/27/2	009	SeqNo: 332	23436	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Sulfate				26.98	1.0	25	0.5843	106	90	110	27.15	0.654	20	
Qualifiers:	<	Less than	Result value			> (Greater than Result val	ue		В	Analyte detec	ted in the associ	ated Method I	Blank
BRL Below Reporting Limit E Esti				Estimated value above	quantitation	range	H	Holding times	s for preparation	or analysis ex	ceeded			
	J	Estimated	l value detected	below Repor	rting Limit	N A	Analyte not NELAC ce	rtified		R	RPD outside l	limits due to mat	rix	
	,	20111111111			0		,							

Rpt Lim Reporting Limit

Spike Recovery outside limits due to matrix

Page 1 of 1



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30						ADDITIONAL COMMENTS	A6 - 13	X8 - 17	Mw - 11	Mm - 10	mwa	A6.8	T C L L M	MW-S		MW - 2D	MW - 2	3 6 1	SAMPLE ID (A-Z, 0-9 / ,) Sample IDs MUST BE UNIQUE South Soil/Soild Oil Wipe Air Tissue Other	Required Client Information MA		lested Due Date/IAI:	8(4)288-265 Fax:	200	Greatile, SC 29615	Coy Ponden C+	Company: BLE	Section A Required Client Information:
accepting Pace's NET 30		i	ORIGINAL		Hyar Var	RE									_			٤ ٦	Unriking Water DW Water Water WT Waste Water WT Waste Water WT Soil/Solid SL Oil Oil Oil Oil Oil Oil Oil Oil Oil Oil	ODE ODE		Project Number:	Project Name: For MCF	Purchase Order No.:		Сору То:	Report To:	Section B Required Project Information:
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arges of 1.5% per	SIGNATURE of SAMPLER:	PRINT Name of SAMPLER:	SAMPLER NAME AND SIGNATURE		11/23/09	DATE	1315	1500	1013	કે જે	1537	1000	2480	722		1421		_	COMPOSITE END/GRAB				Truck					
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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10 ITEM# Section A
Required Client Information: Email TO: Treyor @bl Far fred M Address: Coot Ponders Company: BLE Requested Due Date/TAT: Greenville, SC 29615 (804) 288-12CS 100 Mw - 14 Required Client Information (A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE SAMPLE ID ADDITIONAL COMMENTS 4 Soil/Solid Oil Wipe Air Tissue Other Drinking Water Water Waste Water Product Matrix Codes

MATRIX / CODE ORIGINAL Project Name: For mc w Project Number: Copy To: Required Project Information: Purchase Order No.: Report To-Section B IVAN A. Icitarry, BLE 012 A M P P W M P RELINQUISHED BY / AFFILIATION MATRIX CODE (see valid codes to left) Ireror SAMPLE TYPE (G=GRAB C=COMP) DATE COMPOSITE START 1 yeler SAMPLER NAME AND SIGNATURE TIME COLLECTED PRINT Name of SAMPLER: TYAN 11/23/09 DATE COMPOSITE END/GRAB Truck 11/23/09 336 TIME DATE SAMPLE TEMP AT COLLECTION Invoice Information:
Attention: Treyor 1800 Reference: Pace Project Address: SAWE Company Name: 33 L Section C # OF CONTAINERS ace Profile #: TIME Unpreserved H₂SO₄ HNO₃ HCI NaOH ACCEPTED BY / AFFILIATION Na₂S₂O₃ 17. 26 Methanol Other Analysis Test Y/N DATE Signed (MM/DD/YY): BTEX,MD, 120CA, BOXY EDB 8011 イス 82 C 6 Requested Analysis Filtered (Y/N) Lead (Pb) 6010 REGULATORY AGENCY **V** UST Site Location Sulfate DATE NPDES STATE: 8 RCRA 010 TIME 5 RCRA **GROUND WATER** Page: Temp in °C Residual Chlorine (Y/N) 6 Received on Ice (Y/N) SAMPLE CONDITIONS Pace Project No./ Lab I.D. 1336536 Custody OTHER DRINKING WATER Sealed Cooler (Y/N) Samples Intact (Y/N)

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

SIGNATURE of SAMPLER:

2

11/23/09

F-ALL-Q-020rev.07, 15-May-2007







December 09, 2009

Mr. Trevor Benton Bunnell-Lammons Engineering 6004 Ponders Court Greenville. SC 29615

RE: Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

Dear Mr. Benton:

Enclosed are the analytical results for sample(s) received by the laboratory on November 25, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Inorganic Wet Chemistry and Metals analyses were performed at our Pace Asheville laboratory and Organic testing was performed at our Pace Huntersville laboratory unless otherwise footnoted. All Microbiological analyses were performed at the laboratory where the samples were received.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Kevin Godwin

X ~ Doch

kevin.godwin@pacelabs.com

Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

CERTIFICATIONS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

Charlotte Certification IDs

9800 Kincey Ave. - Ste 100 Huntersville, NC 28078

West Virginia Certification #: 357
Connecticut Certification #: PH-0104
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana/LELAP Certification #: 04034
New Jersey Certification #: NC012

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 Pennsylvania Certification #: 68-00784 South Carolina Certification #: 990060001

South Carolina Drinking Water Cert. #: 990060003 Tennessee Certification #: 04010

Virginia Certification #: 00213

Asheville Certification IDs

2225 Riverside Dr. Asheville, NC 28804 Connecticut Certification #: PH-0106 Louisiana/LELAP Certification #: 03095 Massachusetts Certification #: M-NC030 New Jersey Certification #: NC011

North Carolina Bioassay Certification #: 9

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

Pennsylvania Certification #: 68-03578 South Carolina Bioassay Certification #: 99030002 South Carolina Certification #: 99030001 Tennessee Certification #: 2980 Virginia Certification #: 00072 West Virginia Certification #: 356 Florida/NELAP Certification #: E87648





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

SAMPLE SUMMARY

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

Lab ID	Sample ID	Matrix	Date Collected	Date Received
9258321001	MW-16	Water	11/24/09 09:10	11/25/09 09:30





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

SAMPLE ANALYTE COUNT

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

Lab ID	Sample ID	Method	Analysts	Analytes Reported
9258321001	MW-16	EPA 8011	RES	2
		EPA 6010	JMW	1
		EPA 6010	JMW	7
		EPA 7470	SHB	1
		EPA 8260	KJM	20
		SM 3500-Fe D#4	DMN	1
		EPA 353.2	SHB	1





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092



Project: FORMER RYDER TRUCK

Sample: MW-16	Lab ID: 9258321001	Collected:	11/24/09	09:10	Received: 11/2	25/09 09:30 Ma	atrix: Water	
Parameters	Results Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical Method: EPA	8011 Prepara	tion Metho	d: EPA	8011			
1,2-Dibromoethane (EDB)	ND ug/L	0.020	0.020	1	12/04/09 16:20	12/06/09 22:13	106-93-4	
1-Chloro-2-bromopropane (S)	102 %	60-140		1	12/04/09 16:20	12/06/09 22:13	301-79-56	
6010 MET ICP	Analytical Method: EPA	6010 Prepara	ition Metho	d: EPA	3010			
_ead	ND ug/L	5.0	4.0	1	12/02/09 14:10	12/05/09 00:09	7439-92-1	
6010 MET ICP, Dissolved	Analytical Method: EPA	6010 Prepara	tion Metho	d: EPA	3010			
Arsenic, Dissolved	ND ug/L	5.0	2.7	1	11/30/09 14:30	12/01/09 15:47	7440-38-2	
Barium, Dissolved	119 ug/L	5.0	0.20	1	11/30/09 14:30	12/01/09 15:47	7440-39-3	Z2
Cadmium, Dissolved	ND ug/L	1.0	0.50	1	11/30/09 14:30	12/01/09 15:47		
Chromium, Dissolved	0.44J ug/L	5.0	0.40	1	11/30/09 14:30	12/01/09 15:47		Z2
_ead, Dissolved	ND ug/L	5.0	4.0	1	11/30/09 14:30	12/01/09 15:47	7439-92-1	
Selenium, Dissolved	ND ug/L	10.0	3.8	1	11/30/09 14:30	12/01/09 15:47		
Silver, Dissolved	0.22J ug/L	5.0	0.10	1	11/30/09 14:30	12/01/09 15:47		Z2
470 Mercury, Dissolved	Analytical Method: EPA	7470 Prepara	tion Metho	d: EPA	7470			
Mercury, Dissolved	ND ug/L	0.20	0.090	1	11/30/09 15:20	12/01/09 14:08	7439-97-6	
3260 MSV Oxygenates	Analytical Method: EPA	8260						
ert-Amyl Alcohol	ND ug/L	100	62.0	1		12/05/09 11:21	75-85-4	
ert-Amylmethyl ether	ND ug/L	10.0	4.5	1		12/05/09 11:21	994-05-8	
Benzene	ND ug/L	5.0	1.2	1		12/05/09 11:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND ug/L	100	48.0	1		12/05/09 11:21	624-95-3	
ert-Butyl Alcohol	ND ug/L	100	27.0	1		12/05/09 11:21	75-65-0	
ert-Butyl Formate	ND ug/L	50.0	9.0	1		12/05/09 11:21	762-75-4	
I,2-Dichloroethane	ND ug/L	5.0	1.3	1		12/05/09 11:21	107-06-2	
Diisopropyl ether	ND ug/L	5.0	2.7	1		12/05/09 11:21	108-20-3	
Ethanol	ND ug/L	200	170	1		12/05/09 11:21		
Ethylbenzene	ND ug/L	5.0	1.1	1		12/05/09 11:21		
Ethyl-tert-butyl ether	ND ug/L	10.0	4.6	1		12/05/09 11:21	637-92-3	
Methyl-tert-butyl ether	ND ug/L	5.0	2.0	1		12/05/09 11:21		
Naphthalene	ND ug/L	5.0	2.9	1		12/05/09 11:21		
Toluene	ND ug/L	5.0	1.8	1		12/05/09 11:21		
m&p-Xylene	ND ug/L	10.0	2.7	1		12/05/09 11:21		
o-Xylene	ND ug/L	5.0	1.7	1		12/05/09 11:21		
Dibromofluoromethane (S)	95 %	85-115	1.7	1		12/05/09 11:21		
Foluene-d8 (S)	104 %	70-120		1		12/05/09 11:21		
4-Bromofluorobenzene (S)	104 %	87-109		1		12/05/09 11:21		
,2-Dichloroethane-d4 (S)	104 %	79-120		1		12/05/09 11:21		
ron, Ferrous	Analytical Method: SM 3							
ron, Ferrous	ND mg/L	0.50	0.50	1		12/01/09 22:05		Н3
353.2 Nitrogen, NO2/NO3 unpres	Analytical Method: EPA	353.2						

Date: 12/09/2009 05:39 PM

REPORT OF LABORATORY ANALYSIS

Page 5 of 15



Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

Date: 12/09/2009 05:39 PM

QC Batch: OEXT/8720 Analysis Method: EPA 8011

QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP

Associated Lab Samples: 9258321001

METHOD BLANK: 374890 Matrix: Water

Associated Lab Samples: 9258321001

Parameter Units Blank Reporting Limit Analyzed Qualifiers

1,2-Dibromoethane (EDB) ug/L ND 0.020 12/06/09 16:52

LABORATORY CONTROL SAMPL	E & LCSD: 374891		37	74892						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.28	0.32	0.30	112	106	60-140	6	20	
1-Chloro-2-bromopropane (S)	%				108	101	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 374894 374895 MS MSD 9258321001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual 1,2-Dibromoethane (EDB) ug/L ND .29 .29 0.27 0.28 96 98 60-140 2 20 1-Chloro-2-bromopropane (S) % 96 97 60-140

SAMPLE DUPLICATE: 374893

		9258191003	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		2	0
1-Chloro-2-bromopropane (S)	%		99	0		

REPORT OF LABORATORY ANALYSIS





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

METHOD BLANK: 373334

QC Batch: MPRP/5469 QC Batch Method: EPA 3010

Associated Lab Samples: 9258321001 Analysis Method: Analysis Description: EPA 6010

6010 MET

Matrix: Water

Associated Lab Samples: 9258321001

Blank

Spike

Reporting

Parameter Units Result

Limit

Analyzed Qualifiers

Lead ug/L ND 5.0 12/04/09 23:44

LABORATORY CONTROL SAMPLE: 373335

Parameter

Units Conc.

Units

Units

LCS Result

LCS % Rec % Rec Limits

Qualifiers

500 482 96 80-120

MATRIX SPIKE SAMPLE:

373336

ug/L

Parameter

Parameter

9258169006 Result

Spike Conc.

500

MS Result

MS % Rec % Rec Limits

Qualifiers

ug/L

SAMPLE DUPLICATE:

373337

9258169007 Result

Dup Result

RPD

475

Max RPD

Qualifiers

75-125

Lead

Lead

Lead

ug/L

ND

ND

ND

20

95



EPA 6010

6010 MET Filtered





QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

QC Batch: MPRP/5446
QC Batch Method: EPA 3010

MPRP/5446 Analysis Method: EPA 3010 Analysis Description:

Associated Lab Samples: 9258321001

METHOD BLANK: 372150 Matrix: Water

Associated Lab Samples: 9258321001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Arsenic, Dissolved	ug/L	3.5J	5.0	12/01/09 14:01	,
Barium, Dissolved	ug/L	3.3J	5.0	12/01/09 14:01	
Cadmium, Dissolved	ug/L	0.83J	1.0	12/01/09 14:01	
Chromium, Dissolved	ug/L	3.0J	5.0	12/01/09 14:01	
Lead, Dissolved	ug/L	ND	5.0	12/01/09 14:01	
Selenium, Dissolved	ug/L	5.1J	10.0	12/01/09 14:01	
Silver, Dissolved	ug/L	1.5J	5.0	12/01/09 14:01	

LABORATORY CONTROL SAMPLE: 372151

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic, Dissolved	ug/L	500	498	100	80-120	7.
Barium, Dissolved	ug/L	500	509	102	80-120	
Cadmium, Dissolved	ug/L	500	506	101	80-120	
Chromium, Dissolved	ug/L	500	509	102	80-120	
Lead, Dissolved	ug/L	500	496	99	80-120	
Selenium, Dissolved	ug/L	500	499	100	80-120	
Silver, Dissolved	ug/L	250	261	104	80-120	

MATRIX SPIKE SAMPLE:	372152						
		9257466001	Spike	MS	MS	% Rec	
Parameter	Units	Result	Conc.	Result	% Rec	Limits	Qualifiers
Arsenic, Dissolved	ug/L	9.7	500	434	85	75-125	
Barium, Dissolved	ug/L	236	500	648	82	75-125	
Cadmium, Dissolved	ug/L	ND	500	408	82	75-125	
Chromium, Dissolved	ug/L	19.4	500	429	82	75-125	
Lead, Dissolved	ug/L	39.0	500	435	79	75-125	
Selenium, Dissolved	ug/L	ND	500	427	85	75-125	
Silver, Dissolved	ug/L	ND	250	216	86	75-125	

SAMPLE DUPLICATE: 372153

		9257466002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Arsenic, Dissolved	ug/L	17.3	22.4	26	20	R1
Barium, Dissolved	ug/L	1020	1030	1	20	
Cadmium, Dissolved	ug/L	1.1	1.3	13	20	
Chromium, Dissolved	ug/L	ND	1.5J		20	
Lead, Dissolved	ug/L	ND	ND		20	

Date: 12/09/2009 05:39 PM



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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

SAMPLE DUPLICATE: 372153

		9257466002	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Selenium, Dissolved	ug/L	27.0	25.0	8	20	
Silver, Dissolved	ug/L	ND	4.2J		20	

Date: 12/09/2009 05:39 PM REPORT OF LABORATORY ANALYSIS





Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.:

9258321

QC Batch:

MERP/2527

QC Batch Method:

EPA 7470

Analysis Method:

EPA 7470

Analysis Description:

7470 Mercury Dissolved

Associated Lab Samples: METHOD BLANK: 372167

Matrix: Water

Associated Lab Samples:

9258321001

9258321001

Blank

Reporting

Parameter

Units

Units

Units

Result

Limit Analyzed Qualifiers

Mercury, Dissolved

ug/L

ND

0.20 12/01/09 12:46

LABORATORY CONTROL SAMPLE: 372168

Parameter

Parameter

Spike

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Mercury, Dissolved

ug/L

ug/L

ug/L

Conc. 2.5

2.4

95

80-120

MATRIX SPIKE SAMPLE:

372169

Parameter

9257466001 Result

Spike Conc.

MS Result

MS % Rec

88

25

% Rec Limits

75-125

Qualifiers

SAMPLE DUPLICATE:

Mercury, Dissolved

372170

Units

ND

ND

Dup

2.5

0.50

RPD

2.3

Max RPD

Mercury, Dissolved

9257466002 Result

Result

Qualifiers

Date: 12/09/2009 05:39 PM







QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

QC Batch: MSV/9235 Analysis Method: EPA 8260

QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Oxygenates

Associated Lab Samples: 9258321001

METHOD BLANK: 374942 Matrix: Water

Associated Lab Samples: 9258321001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	12/05/09 10:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	12/05/09 10:45	
Benzene	ug/L	ND	5.0	12/05/09 10:45	
Diisopropyl ether	ug/L	ND	5.0	12/05/09 10:45	
Ethanol	ug/L	ND	200	12/05/09 10:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	12/05/09 10:45	
Ethylbenzene	ug/L	ND	5.0	12/05/09 10:45	
m&p-Xylene	ug/L	ND	10.0	12/05/09 10:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	12/05/09 10:45	
Naphthalene	ug/L	ND	5.0	12/05/09 10:45	
o-Xylene	ug/L	ND	5.0	12/05/09 10:45	
tert-Amyl Alcohol	ug/L	ND	100	12/05/09 10:45	
tert-Amylmethyl ether	ug/L	ND	10.0	12/05/09 10:45	
tert-Butyl Alcohol	ug/L	ND	100	12/05/09 10:45	
tert-Butyl Formate	ug/L	ND	50.0	12/05/09 10:45	
Toluene	ug/L	ND	5.0	12/05/09 10:45	
1,2-Dichloroethane-d4 (S)	%	103	79-120	12/05/09 10:45	
4-Bromofluorobenzene (S)	%	106	87-109	12/05/09 10:45	
Dibromofluoromethane (S)	%	95	85-115	12/05/09 10:45	
Toluene-d8 (S)	%	106	70-120	12/05/09 10:45	

LABORATORY	CONTROL SAMPLE	: 374943
------------	----------------	----------

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	60.8	122	72-126	
3,3-Dimethyl-1-Butanol	ug/L	1000	1250	125	55-148	
Benzene	ug/L	50	49.6	99	78-128	
Diisopropyl ether	ug/L	50	56.5	113	74-131	
Ethanol	ug/L	2000	3000	150	53-150	
Ethyl-tert-butyl ether	ug/L	100	117	117	77-136	
Ethylbenzene	ug/L	50	55.3	111	80-127	
m&p-Xylene	ug/L	100	113	113	82-127	
Methyl-tert-butyl ether	ug/L	50	54.4	109	71-130	
Naphthalene	ug/L	50	56.0	112	52-136	
o-Xylene	ug/L	50	58.3	117	83-124	
tert-Amyl Alcohol	ug/L	1000	1280	128	50-150	
tert-Amylmethyl ether	ug/L	100	107	107	50-150	
tert-Butyl Alcohol	ug/L	500	590	118	50-150	
tert-Butyl Formate	ug/L	400	365	91	50-150	
Toluene	ug/L	50	59.6	119	76-126	
1,2-Dichloroethane-d4 (S)	%			101	79-120	

Date: 12/09/2009 05:39 PM

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

LABORATORY CONTROL SAMPLE: 3749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			105	87-109	
Dibromofluoromethane (S)	%			95	85-115	
Toluene-d8 (S)	%			105	70-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 37494	4		374945							
			MS	MSD								
	92	258328023	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Benzene	ug/L	ND	50	50	45.3	49.9	91	100	74-136	10	30	5-2
Toluene	ug/L	ND	50	50	56.7	60.0	113	120	73-131	6	30	
1,2-Dichloroethane-d4 (S)	%						107	102	79-120			
4-Bromofluorobenzene (S)	%						104	110	87-109			S0
Dibromofluoromethane (S)	%						100	96	85-115			
Toluene-d8 (S)	%						105	105	70-120			

Date: 12/09/2009 05:39 PM REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

QC Batch: WET/10628
QC Batch Method: SM 3500-Fe D#4

Analysis Method: Analysis Description: SM 3500-Fe D#4 Iron, Ferrous

Associated Lab Samples: 9258321001

METHOD BLANK: 372382 Matrix: Water

Associated Lab Samples: 9258321001

ParameterUnitsBlank Reporting ResultReporting LimitAnalyzedQualifiersIron, Ferrousmg/LND0.5012/01/09 21:35

LABORATORY CONTROL SAMPLE: 372383

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers 110 90-110 Iron, Ferrous mg/L 1.5 1.7

SAMPLE DUPLICATE: 372384

 Parameter
 Units
 Result Result RPD
 Max RPD
 Qualifiers

 Iron, Ferrous
 mg/L
 ND
 ND
 20

SAMPLE DUPLICATE: 372385

Parameter Units Parameter Units Dup Max Result RPD Qualifiers Iron, Ferrous MD ND 20

Date: 12/09/2009 05:39 PM





Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALITY CONTROL DATA

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

QC Batch: WETA/6326 Analysis Method: EPA 353.2

QC Batch Method: EPA 353.2 Analysis Description: 353.2 Nitrate + Nitrite, Unpres.

Associated Lab Samples: 9258321001

METHOD BLANK: 372008 Matrix: Water

Associated Lab Samples: 9258321001

> Blank Reporting Parameter Units Result Limit Analyzed Qualifiers

Nitrogen, Nitrate mg/L ND 0.10 11/26/09 00:43

LABORATORY CONTROL SAMPLE: 372009

Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Nitrogen, Nitrate 5 5.2 90-110 mg/L 104

MATRIX SPIKE SAMPLE: 372010

MS 9258321001 Spike MS % Rec Parameter Units Result Conc. Result % Rec Limits Qualifiers Nitrogen, Nitrate mg/L 1.4 5 13.5 243 90-110 M0

SAMPLE DUPLICATE: 372011

9258191006 Dup Max RPD RPD Parameter Units Result Result Qualifiers 1.1 Nitrogen, Nitrate mg/L 1.1 20

Date: 12/09/2009 05:39 PM

without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc. 2225 Riverside Dr. Asheville, NC 28804 (828)254-7176 Pace Analytical Services, Inc. 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALIFIERS

Project: FORMER RYDER TRUCK

Pace Project No.: 9258321

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

Date: 12/09/2009 05:39 PM

H3	Sample was received outside EPA method holding time.
	A RESIDENCE OF THE STATE OF THE

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

Z2 Analyte present in the associated method blank above the detection limit.

REPORT OF LABORATORY ANALYSIS



ANALYTICAL ENVIRONMENTAL SERVICES, INC.



December 01, 2009

Kevin Godwin
Pace Analytical Services, Inc.
9800 Kincey Avenue, Suite 100
Huntersville NC 28078

TEL: (704) 875-9092 FAX: (704) 875-9091

RE: 9258321

Dear Kevin Godwin: Order No: 0911L53

Analytical Environmental Services, Inc. received 1 samples on November 28, 2009 10:00 am for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative. AES' certifications are as follows:

- -NELAC/Florida Certification number E87582 for analysis of Environmental Water, soil/hazardous waste, and Drinking Water Microbiology, effective 07/01/09-06/30/10.
- -North Carolina Certification number 562 for analysis of Surface Water, Groundwater, Effluent, effective until 12/31/09.
- -South Carolina Environmental Laboratory Certification number 98016002 effective until 12/31/09.

South Carolina Environmental Laboratory Certification number 98016003 effective until 6/30/10.

These results relate only to the items tested. This report may only be reproduced in full and with

James Forrest

Project Manager

0911153

Pace Analytical®

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					1/2 x1.1-	ers Released By			NAT PAGE			MW-16	Sample ID		Kevin Godwin Pace Analytical Charlotte 9800 Kincey Ave. Suite 100 Huntersville, NC 28078 Phone (704)875-9092 Email: kevin.godwin@pacelabs.com	Report / Invoice To	8321
	A VALUE AND A VALU				11/27/09	Date/Time						11/24/2009 09:10	Collect Date/Time		TO S	Subcontract To	Workorder Name:
-		6	M			e Received By						9258321001	Lab ID			tract To	FORMER R
	and the second second		1/11/28/69		Fedex	Ву						Water	Matrix Unpreserved		P.O.		FORMER RYDER TRUCK
-			8/64											Preserved Containers	P.C. HSOU36	i.	
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FMT-ALL-C-002rev.00 24March2009

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Analytical Environmental Services, Inc

Client: Pace Analytical Services, Inc. Client Sample ID: MW-16

Lab Order 0911L53 Tag Number:

Project: 9258321 **Collection Date:** 11/24/2009 9:10:00 AM

Lab ID:0911L53-001AMatrix:Aqueous

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Inorganic Anions by IC E300.0								
Sulfate	BRL	1.00		mg/L	R160876	1	11/30/2009 15:20	GR

Date:

1-Dec-09

Qualifiers: * Value exceeds maximum contaminant level

BRL Below reporting limit

H Holding times for preparation or analysis exceeded

N Analyte not NELAC certified

B Analyte detected in the associated method blank

> Greater than Result value

E Estimated (value above quantitation range)

S Spike Recovery outside limits due to matrix

Narr See case narrative

NC Not confirmed

< Less than Result value

J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc.

Sample/Cooler Receipt Checklist

Client Pace		Work Orde	r Number 0911453
Checklist completed by Signature Date	128/09		
Carrier name: FedEx UPS Courier Client US	S Mail Other	r	_
Shipping container/cooler in good condition?	Yes 🗸	No	Not Present
Custody seals intact on shipping container/cooler?	Yes	No _	Not Present
Custody seals intact on sample bottles?	Yes	No	Not Present
Container/Temp Blank temperature in compliance? (4°C±2)*	Yes 👱	No _	
Cooler #1 3 \ Cooler #2 Cooler #3	_ Cooler #4 _	Coc	oler#5 Cooler #6
Chain of custody present?	Yes 👤	No	
Chain of custody signed when relinquished and received?	Yes 👤	No	
Chain of custody agrees with sample labels?	Yes 🗸	No	
Samples in proper container/bottle?	Yes 🗸	No	
Sample containers intact?	Yes 🗸	No _	
Sufficient sample volume for indicated test?	Yes 🗸	No	
All samples received within holding time?	Yes	No _	
Was TAT marked on the COC?	Yes 📈	No _	
Proceed with Standard TAT as per project history?	Yes _	No	Not Applicable
Water - VOA vials have zero headspace? No VOA vials su	ıbmitted 🗹	Yes	No
Water - pH acceptable upon receipt?	Yes 🗹	No	Not Applicable
Adjusted?	Chec	cked by	M.D
Sample Condition: Good Other(Explain)			
(For diffusive samples or AIHA lead) Is a known blank include	led? Vec	N	Ja 🗸

See Case Narrative for resolution of the Non-Conformance.

 $\verb|\L|\Quality Assurance|\Checklists Procedures Sign-Off Templates|\Checklists|\Sample Receipt Checklists|\Sample Receipt Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Checklists|\Che$

^{*} Samples do not have to comply with the given range for certain parameters.

CLIENT: Pace Analytical Services, Inc.

Work Order: 0911L53

ANALYTICAL QC SUMMARY REPORT

Date: 01-Dec-09

Project: 9258321 TestCode: Inorganic Anions by IC E300.0

Sample ID: MB-R160876 SampType: MBLK Bat						: R160876	Units: mg/L		Prep Da	te:		RunNo: 16087	6	
Client ID:			TestCode:	Inorganic	Anions by IC	E300.0			Analysis Da	te: 11/30/2	2009	SeqNo: 33255	27	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Sulfate				BRL	1.00	0	0	0	0	0	0	0		
Sample ID: I	LCS-R1608	76	SampType:	LCS	Batch ID	: R160876	Units: mg/L		Prep Da	te:		RunNo: 16087	6	
Client ID:			TestCode:	Inorganic	Anions by IC	E300.0			Analysis Da	te: 11/30/2	2009	SeqNo: 33255	26	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Sulfate				26.2	1.00	25	0.1065	104	90	110	0	0		
Sample ID: (0911L01-01	12EMS	SampType:	MS	Batch ID	: R160876	Units: mg/L		Prep Da	te:		RunNo: 16087	6	
Client ID:			TestCode:	Inorganic	Anions by IC	E300.0			Analysis Da	te: 11/30/2	2009	SeqNo: 33255	52	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Sulfate				27.14	1.00	25	1.306	103	90	110	0	0		
Sample ID: 0	0911L50-00	3AMS	SampType:	мѕ	Batch ID	: R160876	Units: mg/L		Prep Da	te:		RunNo: 16087	6	
Client ID:			TestCode:	Inorganic	Anions by IC	E300.0			Analysis Da	te: 11/30/2	2009	SeqNo: 33255	71	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Sulfate				27.58	1.00	25	0.8688	107	90	110	0	0		
Sample ID: (0911L01-01	12EMSD	SampType:	MSD	Batch ID	: R160876	Units: mg/L		Prep Da	te:		RunNo: 16087	6	
Client ID:			TestCode:	Inorganic	Anions by IC	E300.0			Analysis Da	te: 11/30/2	2009	SeqNo: 33255	54	
Analyte				Result	RPT Limit	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD R	RPDLimit	Qual
Sulfate				27.26	1.00	25	1.306	104	90	110	27.14	0.451	20	
Qualifiers: < Less than Result value BRL Below Reporting Limit J Estimated value detected below Reporting Limit Part Lim Percenting Limit			orting Limit	E I	Estimated value above quantitation range H Holding t Analyte not NELAC certified R RPD outs				Holding times	detected in the associated Method Blank times for preparation or analysis exceeded tside limits due to matrix				
Rpt Lim Reporting Limit					5 5	Spike Recovery outside limits due to matrix								



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

							12	1	10	9	8	7	6	5	4	ω	N	-	ITEM#		1		S.	9 [<u>a</u> 0] _{&} &
*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30						ADDITIONAL COMMENTS												mw-16	Water Water Water Waste Water Waste Water Product Soll/Solid Oil Wipe (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE Other	Section D Matrix Required Client Information MATRIX Original Water Wate		mested bus bate/IAI.	Regisered Dis Pate TAT.	Treyor @ 61 Facro-com	reenville, SC 29615	Cooy Vonders C+	Address: Address:	
pting Pace's NET 30 day payment		CHIGINAL			IVAN A. Ici	RELINQUISHE												ω <u>1</u> 6	SAMPLE TYPE (G=GRAB C=C	to left)		Project Number:	Project Name:	Purchase Order No.:		Copy 10:	4	Section B Required Project Information:
terms and agreeing to late charg	SIGNATU	PRINT Na	SAMPLER NAME AND SIGNATURE		Irizorry, ISLE	RELINQUISHED BY / AFFILIATION												11/14/09	COMPOSITE COMPOSITE END	COLLECTED			er Ryder Truc				re yor	ion:
es of 1.5% per month for any	SIGNATURE of SAMPLER:	PRINT Name of SAMPLER:	AND SIGNATURE		11 24/09 18	DATE T												þ	TIME SAMPLE TEMP AT COLLECTION # OF CONTAINERS				~	Pace Refer	Address:	Com	Atter	Sec Invoi
y invoices not paid within 30 days.		vaw A. In			1800 CMDI	TIME ACCEPTED													Unpreserved H ₂ SO ₄ HNO ₃ HCI NaOH Na ₂ S ₂ O ₃ Methanol	Preservatives		Pace Profile #: //26-	Project ger:	Pace Quote Reference:	ess: SAME	Company Names 1	Attention: Freyor	Section C Invoice Information:
	DATE Signed (MM/DD/YY):	Iniza rvy			0 1000	ED BY / AFFILIATION												\ \ \ \	Other I Analysis Test I BTEX MN, 12 DcA, 8-0xy FDB 80 11 Lead 0010 8 I Cra mebly Filtere	8260 Y/N !	Requested A	7						
-	11/24/09				1182 6	DATE 1												7	Ferrous Ivon Vitrates Sclfates		Requested Analysis Filtered (Y/N)	STATE:	Site Location	VUST	NPDES	REGULATORY AGENCY		
		np in °	°C		30 30	TIME													Residual Chlorine (Y/N))	(Y/N)	8	,	RCRA	GROUND WATER	GENCY		Page:
F-ALL-Q-020rev.07, 15-May-2007	Cu Seale (Y/N)) , oler		YOU	SAMPLE CONDITIONS													\simeq					OTHER	TER DRINKING WATER		1301362	of



C. Earl Hunter, Commissioner

 $Promoting\ and\ protecting\ the\ health\ of\ the\ public\ and\ the\ en\ wiron\ ment.$

MAR 1 8 2010

MR ALLEN VAUGHN ESTATE OF ROBERT VAUGHN 4 E PARKER RD GREENVILLE SC 29611-3504

Re:

AFVR Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929; CA # 38458 Release #2 reported February 25, 1997 Assessment Report received February 22, 2010

Greenville County

Dear Mr. Vaughn:



The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) has reviewed the referenced report and the next necessary scope of work is five Aggressive Fluid/Vapor Recovery (AFVR) events to remove free phase product from monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. Please conduct the AFVR events in the following order and 15 days apart. The 1st AFVR event on MW-4 and MW-17. The 2nd AFVR event on MW-6 and MW-18. The 3rd AFVR event on MW-3R. The 4th AFVR event on MW-15. The 5th AFVR event on MW-6. Thirty days after the last AFVR event please gauge the following monitoring wells MW-2, MW-3R, MW-4, MW-6, Mw-15, MW-17, and MW-18.

Cost Agreement # 38458 has been approved in the amount shown on the enclosed cost agreement form for the aforementioned scope of work. The AFVR and gauging activities may proceed immediately upon receipt of this letter. The AFVR Report submitted at the completion of these activities should include the following:

- A narrative portion documenting the AFVR event noting site conditions, the name of the AFVR contractor, field
 personnel, date, time the AFVR event started and ended, ambient air temperature, and general weather
 conditions during the AFVR event.
- A brief description of the completed work scope and any relevant descriptions pertaining to the data tables.
- A table summarizing the airflow (in CFM) and volatile air emissions concentrations collected from the stack of the truck every thirty minutes through the duration of the events. The table shall also document which well(s) were being recovered from during that time interval.
- A table summarizing the magnehelic gauge measurements from all applicable wells on a thirty-minute time interval.
- The total volume of water recovered (gallons).
- The total volume of free phase product recovered (typically measured with a product/water interface device inserted into the top of the tanker at the completion of the event and then converted to an approximate volume).
- The total weight of petroleum removed as vapor. This is calculated based on the airflow rate and the concentration of vapor.
- A table documenting the free product thickness in each well before and after the recovery events.
- Scaled base map depicting the location of the extraction wells and the surrounding wells equipped with magnehelic gauges.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct billing from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Please note that all applicable South Carolina certification requirements apply to the laboratory services, well installation, and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

An AFVR report and invoice are due within 120 days from the date of this letter. Interim invoices may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Division is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Division for the cost to be paid. The SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Department grants pre-approval for transportation of virgin petroleum impacted groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All investigation derived waste (IDW) must be properly contained and labeled prior to disposal. IDW should not be stored on-site longer than ninety (90) days. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included as an appendix to the report. If the COC concentrations, based on laboratory analysis, are below Risk Based Screening Levels (RBSLs), please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence or inquiries regarding this project, please reference **UST Permit # 11929**. If you have any questions, please feel free to contact me by phone at (803) 896-6323, by fax at (803) 896-6245, or email at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc:

Cost Agreement

CC:

Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/ enc)

Technical File (w/ enc)

Approved Cost Agreement 38458

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

March 16, 2010

Task / Description Categories	Item Description		Qty / Pct	Unit Price	<u>Amount</u>
04 MOB/DEMOB					
	A EQUIPMENT		5.0000	575.00	2,875.00
	B PERSONNEL		6.0000	290.00	1,740.00
10 SAMPLE COLLECTION					
	E GAUGE WELL ONLY		7.0000	20.00	140.00
17 DISPOSAL		,			
	A2 WASTEWATER - PUMPING TES	ST	5,000.0000	0.60	3,000.00
19 RPT/PROJECT MNGT & COORDINATIO		-	,		
	PCT PERCENT		0.1500	24,155.00	3,623.25
23 EFR					
	A 8 HOUR EVENT		5.0000	3,000.00	15,000.00
	C OFF GAS TREATMENT		40.0000	35.00	1,400.00

Total Amount 27,778.25



South Carolina Department of Health and Environmental Control

DIVISION OF UST MANAGEMENT BUREAU OF LAND AND WASTE MANAGEMENT 2600 Bull Street, Columbia, South Carolina 29201

TO:

Underground Storage Tank (UST) Contractors

FROM:

Larry G. Sorrell

Financial Section

UST Management Division

DATE:

March 15, 2010

SUBJECT:

Transition to New Financial Systems

Effective May 3, 2010, the South Carolina Department of Health and Environmental Control will be converting to a new statewide system, the South Carolina Enterprise Information System (SCEIS). The conversion to SCEIS is expected to improve services by state agencies and provide the citizens of the state with better services at reduced costs.

Gowy Couly

As part of this transition, we will be required to shut down our financial and purchasing functions in our existing system on **April 16**, **2010**. The transition period could last as long as six weeks. During this time period, no purchasing, receiving or vendor payments can be processed.

In order to prepare for this conversion, we are taking every step possible to ensure that minimal delays occur in our payment process. All payable invoices received by **April 1, 2010**, will be processed into the accounting system we are currently using and forwarded to Accounts Payable for payment. Invoices received between **April 2 and May** 3 will not be processed to Accounts Payable until the first two weeks in May, at the earliest. At that time SCEIS will be used to process invoices received during the shut down period. We respectfully ask for patience and consideration during this transition period so that no services are interrupted.

If you have any questions regarding these changes, please contact me at <u>sorrellg@dhec.sc.gov</u> or 803.896.6391.

C: Don Siron, Director of UST Program
Eric Cathcart, Manager of Regulatory Compliance Section
Chris Doll, Manager of Assessment Section
Lee Monts, Manager of Corrective Action Section
UST Financial Staff

TABLE 2

Historical Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #42024 BLE Project No. J11-1010-17

	T	I e e i .							***************************************		
Well	Date Sampled	Free Product Thickness	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	Total BTEX (μg/L)	MTBE (μg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (μg/L)
SC DHI	C RBSL	(feet) NA	5	1,000	700	10,000		40	25	0.05	5
	12/13/96	NA NA	20.6	1.74	2.61	6.4	31.35	ND .	ND	NT	NT
	02/10/98	NA NA	ND 26	ND	ND	ND	ND 26	ND	ND	ND	NT
	03/29/99	NA NA	2.6 ND	ND ND	ND ND	ND ND	2.6 ND	ND ND	ND ND	NT NT	NT NT
	01/28/03	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-1	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT ND
	02/23/09	NA NA	ND	ND	ND	ND	ND ND	ND	ND	0.028	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	⊲0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	⊲0.020	<5.0
	12/13/96	NA	249	22.5	43.5	363	678	11.1	900	NT	NT
	02/10/98	0.7	NS	NS	NS NS	NS	NS NS	NS	NS	NS	NS
	03/29/99 07/05/01	1.25 1.25	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	01/28/03	1.92	NS	NS	NS NS	NS	NS NS	NS	NS	NS NS	NS
	02/02/04	0.01	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-2	01/20/05	0.23	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06	NA NA	120	ND .	6.8	170	296.8	ND	240	0.33	NT
	05/29/07	0.26	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/09/08	0.29	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	11/23/09	0.02 NA	25.6	<5.0	<5.0	41.1J	66.7	<5,0	53.3	0.061	<5.0
	11/02/11	NA NA	35.0	<5.0	<5.0	16.0	51.0	0.593	110.0	<0.019	<5.0
	02/10/98	NA NA	2.6	ND	ND	3.2	5.76	ND	12.5	ND	NT
	03/29/99	NA	3.47	ND	ND	ND	3.47	3.12	4.3	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA NA	1.4	ND	ND	ND	1.4	1.2	ND	NT	NT
	02/03/04	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	3.7 ND	ND ND	NT ND	NT NT
MW-2D	02/23/06	NA NA	ND	ND	ND	ND	ND GN	ND	ND	ND	NT
	05/29/07	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.1	ND	ND	ND	1.1	ND	ND	ND	NT
	11/23/09	NA	1.2J	<5.0	<5.0	<10.0	1.2J	<5.0	<5.0	<0.020	<5.0
	02/10/98	NA NA	2.9J	<5.0	<5.0	<5.0	2.9J	0.68J	3.21	⊲0.019 ND	<5.0 NT
	03/29/99	NA 0.01	62.5 NS	6,4 NS	19.3 NS	193 NS	281.2 NS	ND NS	106 NS	NS NS	NS.
	07/05/01	0.04	NS	NS	NS	NS	NS NS	NS	NS	NS	NS
MW-3	01/28/03	0.12	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/06		POSTERON MANAGEMENT			onitoring Well A			I and a second	N. ARRANA	\ [7]
	02/24/06 05/29/07	NA NA	40.0	ND ND	ND ND	81.0 109.0	121 157	ND ND	120 140	0,90 0.51	NT NT
MULTE	09/09/08	NA NA	48.0 23.2	ND	ND ND	17.7	40.9	ND	63.2	0.44	ND
MW-3R	02/23/09	0.6	NS	NS	NS NS	NS	NS	NS	NS	NS	NS
	11/23/09	0.04	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	0.35	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/10/98	NA NA	2.2	ND	1.73	150	153.93	ND	186	ND	NT
	03/29/99 07/05/01	NA NA	ND ND	ND ND	ND ND	10.6 21.5	10.6	ND ND	26.2 49.6	NT NT	NT NT
	01/28/03	NA NA	ND ND	ND	ND	ND ND	21.5 ND	ND ND	ND ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-4	01/20/05	NA	ND	CIN	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	CN	ND	NT	NT
	09/09/08	0.96	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.47	NS	Me	Ne I	Dry	N/e	NS	NS	NS	NS
	11/02/11	1.32	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	02/10/98	NA	16.5	ND	ND	6.83	23.33	ND	33.3	ND	NT
	03/29/99	NA	ND	ND	1.13	6.26	7.39	ND	50.2	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA NA	25.2	11.5	5.10	32.4	74.2	ND	5.0	NT NT	NT NT
	02/02/04	NA NA	23.1 11.0	4.0 ND	2.0 ND	8.7 ND	37.8 11.0	ND ND	ND ND	ND ND	NT NT
MW-5	02/23/06	NA NA	ND ND	ND	ND ·	ND	ND	ND	ND ND	ND	NT
	05/29/07	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	1.0	5.9	2.8	7.8	17.5	ND	9.7	ND	NT
	11/23/09	NA NA	<5.0	<5.0 2.3J	1.8J	<10.0 3.6J	1.8J	<5.0 <5.0	<5.0 <5.0	<0.019 <0.020	<5.0 <5.0
	02/10/98	NA NA	0.32J 523.0	2.33 1,670	2.4J 104	3.6J 434	8.6J 2,731	<5.0 92.7	<5.0 409	ND	<5.0 NT
	03/29/99	1.83	NS NS	NS	NS NS	NS NS	2,731 NS	NS	NS	NS	NS
	07/05/01	>3.0	NS NS	NS	NS	NS	NS NS	NS	NS	NS	NS
	01/28/03	>3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS
	02/02/04	2.19	NS NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	01/20/05	1.72	NS NC	NS	NS NS	NS No	NS NC	NS	NS	NS No	NS
	02/23/06 05/29/07	1,54 0.63	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	09/09/08	0,63 0,42	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS
	02/23/09			.40		Dry					
	11/23/09	3.10	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	2.90	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/15/99	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	12.9	ND	ND	11.6	24.5	6.8	20.1	NT	NT
	01/28/03	NA NA	6,2	ND	ND ND	4.0	10.2	3.2	6.0	NT	NT
	02/02/04	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	3.8 ND	ND ND	NT ND	NT NT
MW-7	01/20/05	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT
	09/09/08	NA NA	NT	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA NA	34.0	ND	ND	40.6	74.6	2.8	89.9	0.23	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.019	<5.0
	11/02/11	NA	0.22J	<5.0	<5.0	<5.0	0.22J	<5,0	<5.0	0.023	<5.0



TABLE 2

Historical Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #42024 BLE Project No. J11-1010-17

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (μg/L)	1,2-DCA (µg/L)
SC DHE	CRBSL	NA	. 5	1,000	700	10,000		40	25	0.05	5
	09/15/99	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-8	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-8	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA NA	ND ND	ND -5.0	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA NA	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<10.0 <5.0	ND ND	<5.0 <5.0	<5.0 <5.0	<0.020 <0.019	<5.0 <5.0
	02/03/04	NA.	ND ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	NT NT
	01/20/05	NA NA	ND	ND	ND	ND ND	ND	ND	ND ND	ND	NT
	02/23/06	NA NA	ND	ND	ND	ND	ND	ND	ND ND	ND	NT
	05/29/07	NA NA	ND	ND	ND	ND	ND ND	ND	ND.	NT	NT
MW-9	09/09/08	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
	02/02/04	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA NA	ND	ND	ND	ND	ND ND	ND	ND	ND	NT
	02/24/06	NA NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
100110	05/29/07	NA NA	ND	ND	ND	ND	ND	ND	ND	NT	NT
MW-10	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	5.4J	5.43	<5.0	<5.0	< 0.020	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
MW-L1	05/29/07	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
191 99 - 1 1	09/09/08	NA	NT	NT	NT	NT	ND	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA	<5,0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.020	<5.0
	02/24/06	NA	ND	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	11.0	ND	NT	NT
MW-12	09/09/08	NA	ND	ND	ND	ND	ND	11.8	ND	ND	ND
1444-12	02/23/09					Dry					
	11/23/09	NA	<5.0	<5.0	<5.0	<10.0	ND	14.0	<5.0	<0.02	<5.0
	11/02/11	NA	<5.0	<5.0	<5.0	<5.0	ND	18.0	<5.0	<0.019	<5.0
	02/24/06	NA	100	ND	ND	110	210	ND	160	0.76	NT
	05/29/07	NA	160	ND	ND	199	359	ND	170	0.62	NT
MW-13	09/09/08	NA	77	ND	ND	101	178	ND	226	0.162	ND
	02/23/09	NA	23.5	ND	ND	46.2	69.7	ND	68.1	0.18	NT
	11/23/09	NA NA	23.6	<5.0	<5.0	69.4	93.0	<5.0	58.4	0.46	<5.0
	11/02/11	NA	34	<5.0	<5.0	82.0	116.0	1.7J	130	9.30	<5.0
	02/24/06	NA NA	160	34.0	480	620	1,294	ND	160	0.46	NT
	05/29/07	NA NA	220	ND	550	700	1,470	ND	250	0.26	NT
MW-14	09/09/08	NA NA	82.4	3.81	54.8	67.1	208.11	ND	75	0.118 0.20	ND NT
	11/23/09	NA NA	175 150	9,9 10,5	303	119.8	607.7 517.3	1.9 <10.0	194 81.5	0.20 0.084	<10,0
	11/02/11	NA NA	36	2.0J	263 65	93.8J 4.3J	517.3 107.3J	<5.0	a1,5	0.013J	<5.0
MW-14 (DUP)	11/02/11	NA NA	200	12.0	510.0	40.0	762	0.53J	140	0.031	<5.0
MW-14 (DC1)	02/24/06	NA NA	100	8.0	25.0	160	293	ND	140	0.54	NT NT
	05/29/07	NA NA	190	12.0	21.0	240	463	ND	390	0.45	NT
ŀ	09/09/08	0.29	NS NS	NS NS	NS NS	NS	463 NS	NS NS	NS NS	NS	NS
MW-15	02/23/09	0.13	NS NS					NS	NS NS	NS NS	NS
ŀ	11/23/09	0.90	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS
ŀ	11/02/11	0.87	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS
	02/23/09	NA	ND ND	ND	ND ND	ND	ND	ND	ND	ND	NT
MW-16	11/24/09	NA NA	<5.0	<5.0	<5.0	<10.0	ND	<5.0	<5.0	<0.020	<5.0
	11/02/11	NA NA	<5.0	<5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0
	02/23/09	0.79	NS NS	NS	NS	NS	NS	NS.	NS NS	NS	NS
MW-17	11/23/09	2.31	NS NS	NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS
	11/02/11	1.65	NS NS	NS NS	NS NS	NS NS	NS NS	NS	NS	NS	NS
	02/23/09	0.45	NS	NS	NS.	NS	NS	NS	NS	NS	NS
MW-18	11/23/09	0.45	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS
					NS NS	NS NS	NS NS	NS	NS NS	NS	NS
1	11/02/11	0.56									
Field Blank	11/02/11	0.56 NA	NS <5.0	NS <5.0	<5.0	<5.0	ND	<5.0	<5.0	<0.019	<5.0

Notes:

| Notes: | Proceedings | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure | Procedure



C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

MS INGRID AUTEN
C/O ANNIE MUMBAUER
BB&T WEALTH MANAGEMENT
PO BOX 408
GREENVILLE SC 29602

FEB 1 3 2012



Re:

Aggressive Fluid and Vapor Recovery Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929; CA# 43100 Release #2 reported February 25, 1997 Monitoring Report received January 17, 2012 Greenville County



Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (SCDHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor. The next appropriate scope of work is to continue aggressive fluid and vapor recovery (AFVR) events to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). Please have your contractor conduct four events on MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The first event should be conducted on MW-4 and MW-17. The second event should be conducted on MW-6, MW-15, and MW-18. The third event should be conducted on MW-3R. The fourth event should be conducted on MW-6. The events should be spaced a minimum of fifteen days apart to allow equilibrium conditions to reestablish, and must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

Cost Agreement #43100 has been approved in the amount shown on the enclosed cost agreement form for the AFVR events. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within $\underline{90}$ days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the SCDHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Department for the cost to be paid. SCDHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria.

Further, SCDHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Division grants pre-approval for transportation of up to 5,000 gallons of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference UST Permit #11929. If there are any questions concerning this project, feel free to contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Geologist/Hydrologist/

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc)

Technical File (w/enc)

Approved Cost Agreement 43100

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
04 MOB/DEMOB				
	A EQUIPMENT	4.0000	575.00	2,300.00
	B PERSONNEL	4.0000	290.00	1,160.00
17 DISPOSAL				
	A WASTEWATER	4,000.0000	0.80	3,200.00
19 RPT/PROJECT MNGT & COORDINATIO	-			
	PCT PERCENT	0.1500	19,780.00	2,967.00
23 EFR				
	A 8 HOUR EVENT	4.0000	3,000.00	12,000.00
	C OFF GAS TREATMENT	32.0000	35.00	1,120.00
		Total Amo	unt	22,747.00

February 10, 2012

suprcait.rdf

Rev: 1.15

Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

MR TREVOR BENTON
BUNNELL-LAMMONS ENGINEERING INC
6004 PONDERS COURT
GREENVILLE SC 29615

SEP 0 7 2012



Re:

Soil Boring/Monitoring Well Approval Letter

Former Ryder Terminal, 10 Woods Lake Drive, Greenville, SC

UST Permit # 11929; UMW# 24744 Release Reported February 25, 1997

Greenville County

Dear Mr. Benton:

The Underground Storage Tank Management Division of the South Carolina Department of Health and Environmental Control (Agency) has enclosed the soil boring/monitoring well approval for the installation of eleven soil borings.

On all correspondence regarding this site, please reference UST Permit #11929. If you have questions concerning this correspondence, feel free to contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

enc: Soil boring/Monitoring Well Approval

cc: Technical File (w/ enc)



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

Soil Boring/Monitoring Well Approval

Approval is hereby granted to: BLE, Inc.

(On behalf of): Ms. Dauten

Facility: Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit Number: 11929 County: Greenville

This approval is for the installation of eleven (11) soil boring/groundwater monitoring wells. The soil borings/monitoring wells are to be installed in the approved locations. Soil borings/Monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

- 1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
- 2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
- 3. A Water Well Record Form or other form provided or approved by the Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
- 4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
- 5. If any of the information provided to the Agency changes, notification to the Stephanie Briney (tel: 803-896-6323 or e-mail: brineysm@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
- 6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
- 7. Agency approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance:

September 7, 2012

Approval #:

UMW-24744

Stephanie Briney, Hydrogeologist

Corrective Action Section

Underground Storage Tank Program

Bureau of Land and Waste Management



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602

SEP 1 3 2012



Re: **QAPP Contractor Addendum Directive**

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929
Release #2 reported February 25, 1997
Aggressive Fluid Vapor Recovery Report Received July 20, 2012
Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced report.

To determine what risk the referenced release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of a groundwater sampling event as outlined in the UST Quality Assurance Program Plan (QAPP) is necessary. The groundwater sampling event should be conducted in accordance with the UST QAPP and must be conducted in compliance with all applicable regulations. The groundwater samples should be analyzed for BTEX + Naphth + MtBE, 1,2 DCA, oxygenates, ethanol, and EDB. A copy of the Agency QAPP for the UST Management Division is available at http://www.dhec.sc.gov/environment/lwm/html/ust.htm.

Please have your contractor complete and submit the QAPP Contractor Addendum and Cost Agreement within thirty (30) days of the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial preapproval from the Agency must be issued before work begins.

On all correspondence concerning this site, please reference **UST Permit # 11929.** If there are any questions concerning this project, please contact me at (803) 896-6323 or by email at brineysm@dhec.sc.gov.

Singerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section UST Management Division

Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615

Technical File



October 31, 2012

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Ms. Stephanie Briney, Hydrogeologist

Subject: QAPP Addendum – Groundwater Sampling Event

Former Ryder Terminal 10 Woods Lake Drive Greenville, South Carolina SCDHEC UST Permit #11929 BLE Project No. J11-1010-19

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Quality Assurance Program Plan (QAPP) addendum for the subject site. This submittal is in response to South Carolina Department of Health and Environmental Control's (SCDHEC) QAPP addendum request dated September 13, 2012, for the implementation of a groundwater sampling event at the subject site. Upon approval from SCDHEC, additional copies of the QAPP addendum will be distributed to the parties listed in section A3.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

Trevor J. Benton, P.G.

Project Hydrogeologist

Registered, South Carolina #23

BUNNELL-LAMMONS ENGINEERING

Thomas L. Lammons, P.G., CHM Principal Hydrogeologist

Registered, South Carolina #893

PHONE (864) 288-1265

FAX (864) 288-4430

cc: Ms. Ingrid Auten c/o Mrs. Annie Mumbauer, BB&T, PO Box 408, Greenville, SC 29602

Former Ryder Terminal – QAPP Addendum UST Permit #11929 Revision No: 0 Date: October 31, 2012

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan Addendum to the SC DHEC UST Programmatic QAPP For Former Ryder Terminal – UST Permit #11929 10 Woods Lake Road, Greenville, South Carolina Prepared by: Trevor J. Benton, P.G – Bunnell-Lammons Engineering, Inc. Date: October 31, 2012

Bunnell-Lammons Engineering, Inc. - SCDHEC Certified Contractor No. UCC-010

Approvals

Stephanie Briney	0:(_ Date	
SC DHEC Project Manager	Signature		
Trever Z. Slack, P.G. Contractor QA Manager	Signature	Date	10/31/12
oomaata qirmanaga	771		
Thomas L. Lammons, P.G.	1 / lam	_ Date	10/31/12
Site Rehabilitation Contractor	Signature		
Neil Magee	Maple	Date	10/31/12
Laboratory Director	Signature		

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Attachment C - YSI 550A Dissolved Oxygen Instrument Calibration, Maintenance, and Operation Procedures

Attachment D – LaMotte Model 2020 Turbidimeter Calibration and Operation Procedures

A3 Distribution List

Name	Title Organization/Address		Telephone Number	Fax Number	Email Address
Stephanie Briney	SC DHEC Technical Project Manager	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6323	803-896-6245	brineysm@dhec.sc.gov
Thomas Site Lammons, Rehabilitation P.G. Contractor		Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	tom@blecorp.com
Trevor Benton, P.G.	Field Manager	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	trevor@blecorp.com
Trever Slack, P.G. Contractor QA Manager/ Project Verifier		Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615	864-288-1265	864-288-4430	tslack@blecorp.com
Neil Magee	Laboratory Director	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	nmagee@ shealylab.com

Table 1A Addendum Distribution List

A4 Project Organization

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
Project Manager	Stephanie Briney	SCDHEC, UST Management Division, 2600 Bull St., Columbia, SC, 29201	803-896-6323	803-896-6245	brineysm@dhec.sc.gov
Site Rehabilitation Contractor	Thomas Lammons, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	tom@blecorp.com
Field Manager	Trevor Benton, P.G.	Bunnell-Lammons Engineering, Inc. 6004 Ponders Court, Greenville, SC 29615	864-288-1265	864-288-4430	trevor@blecorp.com

Role from the UST Master QAPP	Name of person in this Role for this Project	Organization/Address	Telephone Number	Fax Number	Email Address
Analytical Laboratory Director	Neil Magee	Shealy Environmental Services, Inc. 106 Vantage Point Dr. West Columbia, SC 29172	803-791-9700	803-791-9111	nmagee@ shealylab.com
Contractor QA Manager/ Project Verifier	Trever Slack, P.G.	, 0 0,		864-288-4430	tslack@blecorp.com
Purge Water Disposal Contractor	Robin Woodward	VLS Recovery Services, LLC 305 South Main Street Mauldin, SC 29662	864-962-9953	864-963-3997	robin.woodward@vlsrs. com

Table 2A Addendum Role Identification and Contact Information

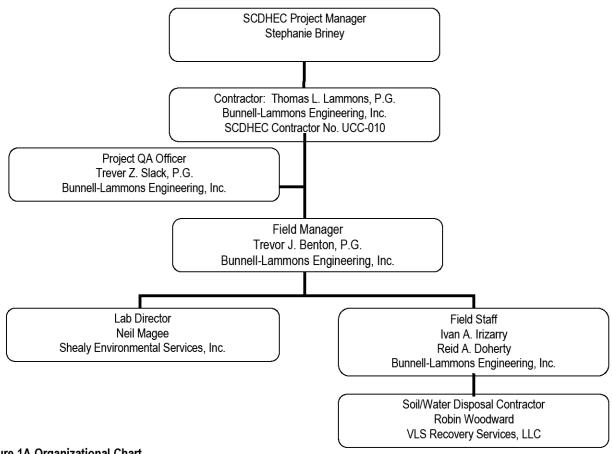


Figure 1A Organizational Chart

Discuss the responsibilities of key individuals associated with the project.

SCHEC Project Manager – Responsible for direct oversight of contractors conducting assessment and site rehabilitation of releases at UST sites. Perform day-to-day review of plans and reports related to site rehabilitation activities on their assigned sites. These reviews include verification and analysis of data submitted to the UST Management Division by site rehabilitation contractors and analytical laboratories and recommendations for future work. Also responsible for validating the Project Data.

Contractor – Responsible for managing and coordinating field and office activities necessary for assessment or cleanup. Perform data analysis and interpretation of field data.

Project QA Officer – Responsible for the Quality Assurance aspect of the Project. The QA officer is independent of the staff generating the project data; however, works closely with the field manager to ensure tasks are completed in compliance with the QAPP procedures. Additionally, the QA officer is responsible for monitoring the QA Project Plan.

Field Manager – Oversees and reviews all field activities. Responsible for all duties (i.e. site access, boring access, utility clearance, etc.) required to initiate field activities. Field staff and the analytical laboratory report directly to the field manager with any problems or potential issues. The field manager also reviews and compiles all field data provided by the field staff and analytical laboratory. Project information is discussed with the Project QA Officer to ensure compliance.

Lab Director – Responsible for ensuring production, quality, and overall direction of the laboratory. Oversees the laboratory QA manager and has the authority to stop work and initiate corrective actions if problems are identified.

Field Staff – Conducts field activities such as drilling oversight and sample collection. Field staff report directly to and provide daily field notes to the field manager. Additionally, the field staff are responsible for coordination and management of on-site subcontractors during field work completion.

Soil/Water Disposal Contractor – Responsible for classification and disposal of investigation derive waste in accordance with all regulatory requirements. Ensure that proper waste characterization is provided and transportation/disposal manifests are complete.

A5 Problem Definition/Background

Discuss the background (as much as is known) of the site and appropriate historical information, and why this site is being assessed.

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater

contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2012 by BLE to define the extent of petroleum contamination and to remove free-product through multiple AFVR events. The most recent AFVR events were performed in March and April 2012. In an effort to determine what risk the release may pose to the environment, SCDHEC has required an updated comprehensive groundwater sampling event be conducted at the site. A Site Plan depicting the current groundwater monitoring well network is provided as Figure 2.

Please answer the following: Does this project fall under UST or Brownfields area?

UST Division (UST Permit #11929)

A6 Project/Task Description

1. Summarize what is known about the work to be done. This can be a short sentence indicating what the Scope of this project is (see Master QAPP Section A6).

Conduct a groundwater sampling event at the subject site pursuant to SCDHEC's Master QAPP - Section A6 and B1. Currently, 19 groundwater monitoring wells are associated with the subject site. Each location will be sampled and analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tert-butylether (MTBE), 1,2-dichloroethane (1,2-DCA), and 8-oxygenates by EPA Method 8260B and 1,2-dibromoethane (EDB) by EPA Method 8011.

- 2. The work will begin within <u>two weeks</u> after cost approval and the project should be <u>completed within 60 days</u>.
- 3. Are there are time or resource constraints? Include those factors that may interfere with the tentative schedule.

No time or resource constraints are foreseen at this time.

A7 Data Quality Objectives (DQOs) and Data Quality Indicators (DQIs)

Detail the geographical area that is to be part of the project. Maps should be included to show not only the topography and the geographical area of the State, but also to show more detail of the site itself including property lines.

See attached Figures 1 and 2.

A8 Training and Certificates

Required training and licenses:

Title/Job	Name	Training Required	Date training received	Type of License	License Number
Hydrogeologist	Thomas Lammons, P.G., CHMM	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#893
Hydrogeologist	Trevor Benton, P.G.	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#2395
Hydrogeologist	Trever Slack, P.G.	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	SC Professional Geologist	#2565
Geologist	Ivan Irizarry	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	N/A	N/A
Geologist	Reid A. Doherty	40-hour OSHA HAZWOPER & 8-Hour Refresher	2/3/12	N/A	N/A

Table 3A Required Training and Licenses

Thomas L. Lammons, P.G. of Bunnell-Lammons Engineering, Inc. is responsible to ensuring that personnel participating in this project receive the proper training. All training records will be stored in the following location: Bunnell-Lammons Engineering, Inc., Human Resources Department Files c/o Ms. Esther Lande.

It is understood that training records will be produced if requested by the SCDHEC.

The Following Laboratory(ies) will be used for this Project:

Commercial Lab(s)

Full Name of the Laboratory: Shealy Environmental Services, Inc.

Name of Lab Director: Neil Magee SC DHEC Certification Number: 32010

Parameters this Lab will analyze for this project:

Groundwater

- BTEX, Naphthalene, MTBE, 1,2-DCA, and 8-Oxygenates by EPA Method 8260B
- EDB by EPA Method 8011

Please note: SC DHEC may require that the contractor submit some or all of the Laboratory's SOPs as part of this QAPP.

A9 Documents and Records

	Personnel will receive the most current version of the QAPP Addendum via: 'Check all that apply)					
XXX US Mail	Courier	XXX Hand delivered				
Other (please	specify):					

Record	Produced By	Hardcopy/ Electronic	Storage Location For How Long?	Archival
Project Field Notes	BLE personnel	Hardcopy	BLE file library. Hard copy storage for a minimum of 3 years.	After 3 years, the project data may be scanned and transferred to CD. CDs and/or reports will be archived in BLEs file library for a minimum of 5 years.
Instrument Raw Data	Shealy Environmental Services, Inc.	Hardcopy and Electronic	Hardcopy: Offsite 7 years Electronic: External hard drive 10 years	Yes
Laboratory Analytical Data	Shealy Environmental Services, Inc.	Hardcopy & Electronic	Shealy will retain data on an external hard drive for 10 years. Data stored in BLE file library and electronic data storage backup. BLE hard copy storage for a minimum of 3 years.	After 3 years, the project data may be scanned and transferred to CD. CDs and/or reports will be archived in BLEs file library for a minimum of 5 years.
Final Report	BLE personnel	Hardcopy & Electronic	BLE file library and electronic data storage backup. Hard copy storage for a minimum of 3 years.	After 3 years, the project data may be scanned and transferred to CD. CDs and/or reports will be archived in BLEs file library for a minimum of 5 years.

Table 4A Record Identification, Storage, and Disposal

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Date: October 31, 2012

Section B Measurement/Data Acquisition

B1 Sampling Process/Experimental Design

Item	Start Date	End Date	Comments
QAPP Addendum	October 31,	November 14,	Date assumes two weeks for SCDHEC QAPP review.
Preparation/Approval	2012	2012	
Monitoring Well	November 26,	November 27,	Sample groundwater monitoring wells. See SOP Attachment A for groundwater sampling procedures.
Sampling	2012	2012	
Report Preparation,	December 17,	January 11,	Report preparation, review, and submittal dates are contingent on completion of all required project activities. Date may be subject to change.
Review, and Submittal	2012	2012	

Table 5A Sampling Activities

B2 Sampling Methods

Please note: The contractor must follow sampling protocols as given in the UST QAPP.

Estimate the number of samples of each matrix that are expected to be collected:

Soil _	Ü
Ground Water from monitoring wells	19
From Drinking/Irrigation water wells	0
From Surface water features _	0
Field Duplicates	1
Field Blanks	2
Trip Blanks	1
Total number of Water samples	23
The samples will be (check as many as apply):	HomogenizedSplit

For the sample matrices indicated above, please describe how samples will be collected and the equipment needed.

A Heron Little Dipper Water Level Indicator and/or a Solinst Interface Meter will be used to measure the depth-to-water and/or depth-to-product in the monitoring wells prior to sample collection. An Oakton Model 35630-62 Multi-Parameter Meter will be used to measure pH, specific conductivity, and temperature during the groundwater sampling event and a YSI 550A Dissolved Oxygen Meter will be used to measure dissolved oxygen levels in the groundwater. Additionally, a LaMotte Model 2020 Turbidimeter will be used to monitor turbidity during purging to ensure that the groundwater sample collected is representative of the formation.

Will Sampling Equipment have to be cleaned and decontaminated or is everything disposable?

Disposable sampling equipment (i.e tubing, bailers, latex gloves, etc.) will be utilized for collecting groundwater samples.

Groundwater monitoring well samples will be collected with disposable polyethylene bailers. A new bailer will be utilized for each sampling location. Monitoring well sampling procedures are provided in SOP Attachment A.

The Heron Little Dipper Water Level Indicator and/or Solinst Interface Meter will require cleaning and decontamination between each groundwater monitoring well sampling. The Oakton Model 35630-62 Multi-Parameter Meter and YSI 550A Dissolved Oxygen Meter will require cleaning and decontamination between measurements.

If sampling equipment must be cleaned please give a detailed description of how this is done and the disposal of by-products from the cleaning and decontamination.

Disposable sampling equipment (i.e. tubing, bailers, latex gloves, etc.) will be utilized for collecting groundwater samples, and will be properly disposed of after collection of each groundwater sample.

The Heron Little Dipper Water Level Indicator and/or Solinst Interface Meter will be cleaned and decontaminated by between each use. Decontamination procedures will consist of donning a new, clean pair of disposable gloves. A clean, lint free paper towel saturated with an alconox (or similar laboratory detergent)-potable water mix and a second paper towel saturated with distilled water will be used to wipe the water level tape as it is rewound onto the spool. Plastic will be placed underneath the meter to capture any rinse fluids. The water level indicator probe will be rinsed with an alconox-potable water mix, followed by a final rinse with distilled water. Used gloves and paper towels will be properly disposed of after decontamination procedures are complete.

The Oakton Model 35630-62 Multi-Parameter Meter, YSI 550A Dissolved Oxygen Meter, and LaMotte Model 2020 Turbidimeter will be cleaned and decontaminated between each measurement by first rinsing with an alconox-potable water mix. If the sampling equipment is severely contaminated, a soft disposable brush will be used. The alconox-potable water rinse will be followed by several rinses with de-ionized water prior to the next measurement. The glass cylinders of the LaMotte Model 2020 Turbidimeter will be wiped dry with a clean, lint free cloth following decontamination.

By-products of the cleaning and decontamination will be contained in a 55-gallon drum and transported off-site for disposal at a permitted facility.

Identify any equipment and support facilities needed. This may include such things as Fed-ex to ship the samples, a Geoprobe, field analysis done by another contractor (who must be certified), and electricity to run sampling equipment.

Equipment: Chevrolet 1500 support truck with power inverter capabilities

Soil/Water Disposal Contractor: VLS Recovery Services, LLC – 305 S. Main Street, Mauldin, SC 29662

Laboratory Courier: Shealy Environmental – 106 Vantage Point Drive, West Columbia, SC 29172

Address the actions to be taken when problems occur in the field, and the person responsible for taking corrective action and how the corrective action will be documented.

Failure	Response	Documentation	Individual Responsible
Property Access	Notify SCDHEC project manager of failure to receive property access.	Telephone record/ email correspondence to SCDHEC placed in project file.	Field Manager: Trevor J. Benton, P.G.
Monitoring Well Not Located or Well is Dry Field personnel notify field manager of issue(s). Field manager will notify SCDHEC project manager of issue(s).		Field notes placed in project file. Telephone record/email (if applicable) to SCDHEC placed in project file.	Field Manager: Trevor J. Benton, P.G.
Heron Little Dipper Water Level Indicator Failure	Notify field manager of equipment failure. Clean indicator probe and replace batteries in the field. If problem persists, use backup water level indicator and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.
Oakton Model 35630-62 Multi- Parameter Meter Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.
YSI 550A Dissolved Oxygen Meter	Notify field manager of equipment failure. Replace membrane with spare, clean probe, and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Telephone record/email correspondence to field manager.	Field Staff: Ivan A. Irizarry Reid. A Doherty Field Manager: Trevor J. Benton, P.G.

	Notify field manager of equipment failure.		Field Staff:
LaMotte Model	Replace batteries in the field, then recalibrate	Telephone	Ivan A. Irizarry
2020	according to manufacturer's standards. If	record/email	Reid. A Doherty
Turbidimeter	problem persists, use backup turbidimeter and	correspondence	-
Failure	send failed equipment to Pine Environmental	to field manager.	Field Manager:
	Services in Lilburn, Georgia for repair.		Trevor J. Benton, P.G.

Table 6A Field Corrective Action

B3 Sample Handling and Custody

1. How will the samples get from the Site to the Lab to ensure holding requirements are met?

By vehicle to BLE office; then vehicle pick-up by laboratory courier who delivers to lab location.

2. How will the contractors cool the samples and keep the samples cool?

Wet ice will be used in an appropriate sized cooler for storage of samples between project site and office. Once at office, samples will be maintained at appropriate temperatures in a refrigerator/freezer in a secured storage room located within the office.

3. How will the lab determine the temperature of the samples upon receipt? Will they be using a temperature blank?

A calibrated thermometer and temperature blank will be used to document sample temperature. The temperature blank is immediately checked by the sample receiving technician upon arrival at the laboratory.

4. Where will the samples be stored in the Lab once they are received?

All samples are stored in clean refrigeration units monitored and maintained at 4 degrees C + or - 2 degrees. Volatile organic samples are stored separately from all other samples.

5. Describe the chain of custody procedure and attach a copy of each chain of custody that will be used. If a Chain of Custody SOP exists from the Lab and the Contractor is willing to adhere to it, then this may be attached.

A chain of custody (COC) will be filled out for each sampling event at the site. COC will be signed by Bunnell-Lammons Engineering, Inc. field staff and Shealy Environmental Services, Inc. lab staff at time physical transfer of samples occurs to courier. Shealy Environmental Services, Inc. uses the following COC procedures to protect sample integrity following pickup by their courier: A full time Sample Receiving Technician receives all samples and completes a Sample Receipt Checklist (SRC), which will identify any anomalies. If any anomalies exist, the Sample Receiving Technician or Project Manager must resolve the deviation internally and/or notify the client to resolve the anomaly. A copy of a standard Shealy Environmental Services, Inc. COC is included with SOP Attachment A.

B4 Analytical Methods

1. Identify the SOPs which will be used to analyze the samples, the method which the SOP references and the equipment or instrumentation that is needed:

Parameter	SOP ID*	Method Referenced	Equipment	Comments
Specific Conductivity	See Standard Operating Procedures Attachment B for Oakton pH/Conductivity Series 10 Multi- Parameter Tester Calibration and Operation Procedures	Manufacturer Product Manual/Specifications	Oakton Model 35630-62 Multi- Parameter Meter	None
рН	See Standard Operating Procedures Attachment B for Oakton pH/Conductivity Series 10 Multi- Parameter Tester Calibration and Operation Procedures	Manufacturer Product Manual/Specifications	Oakton Model 35630-62 Multi- Parameter Meter	None
Temperature	See Standard Operating Procedures Attachment B for Oakton pH/Conductivity Series 10 Multi- Parameter Tester Calibration and Operation Procedures	Manufacturer Product Manual/Specifications	Oakton Model 35630-62 Multi- Parameter Meter	None
Dissolved Oxygen	See Standard Operating Procedures Attachment C for YSI 550A Dissolved Oxygen Instrument Calibration, Maintenance, and Operation Procedures	Manufacturer Product Manual/Specifications	YSI 550A Dissolved Oxygen Meter	None
Turbidity	See Attachment D Standard Operating Procedures for LaMotte Model 2020 Turbidimeter Instrument Analysis	Manufacturer Product Manual/Specifications	LaMotte Model 2020 Turbidimeter	None
BTEX+Naphthalene+ MTBE+8 Oxygenates	S-VO-002	8260B	GC/MS	None
EDB	S-SV-012	8011	GC	None

Table 7A Analytical SOPs and Referenced Methods

 This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.

Abbreviation	Identification of this SOP	Full Name of the SOP
SOP Attachment A	SOP Attachment A	Monitoring Well Purging and Sampling Procedures
SOP Attachment B	SOP Attachment B	Oakton pH/Conductivity Series 10 Multi-Parameter Tester Calibration and Operation Procedures
SOP Attachment C	SOP Attachment C	YSI 550A Dissolved Oxygen Instrument Calibration, Maintenance, and Operation Procedures
SOP Attachment D	SOP Attachment D	LaMotte Model 2020 Turbidimeter Calibration and Operation Procedures
S-VO-002	S-VO-002	GC/MS Volatiles Analysis Based on EPA Methods 8260B and 624 Prepared by EPA Methods 5030B, 5035 and 3585
S-SV-012	S-SV-012	GC/ECD Analysis of EDB and DBCP Based on Method 8011 & 504.1

Table 8A SOP Abbreviation Key

2. Identify procedures to follow when failures occur, identify the individual responsible for corrective action and appropriate documentation:

Fallure	Response	Documented Where?	Individual Responsible
COC or Sample Receiving Issues	Call Client	Sample Receiving Checklist (SRC)	PM – Lucas Odom lodom@shealylab.com
Analytical Errors	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Neil Magee nmagee@shealylab.com
QA/QC Failure	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Neil Magee nmagee@shealylab.com QA/QC Office – Jami Savje jsavje@shealylab.com
On Time Delivery	Corrective Action Form (CAF)	CAF filled out by PM	Lab Director – Neil Magee nmagee@shealylab.com QA/QC Office – Jami Savje jsavje@shealylab.com
0	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then	Include a	<i>Field Staff:</i> Ivan A. Irizarry
Specific Conductivity Reading Failure	recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	narrative of problem in field notes	Field Manager: Trevor J. Benton, P.G. trevor@blecorp.com
pH Reading Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Include a narrative of problem in field notes	Field Staff: Ivan A. Irizarry Field Manager: Trevor J. Benton, P.G. trevor@blecorp.com
Temperature Reading Failure	Notify field manager of equipment failure. Clean probe and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Field Environmental Instruments, Inc. in Pittsburgh, Pennsylvania for repair.	Include a narrative of problem in field notes	Field Staff: Ivan A. Irizarry Field Manager: Trevor J. Benton, P.G. trevor@blecorp.com
Dissolved Oxygen Reading Failure	Notify field manager of equipment failure. Replace membrane with spare, clean probe, and replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup meter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Include a narrative of problem in field notes	Field Staff: Ivan A. Irizarry Field Manager: Trevor J. Benton, P.G. trevor@blecorp.com
Turbidimeter Reading Failure	Notify field manager of equipment failure. Replace batteries in the field, then recalibrate according to manufacturer's standards. If problem persists, use backup turbidimeter and send failed equipment to Pine Environmental Services in Lilburn, Georgia for repair.	Include a narrative of problem in field notes	Field Staff: Ivan A. Irizarry Field Manager: Trevor J. Benton, P.G. trevor@blecorp.com

Table 9A Corrective Action Procedures

3. Identify sample disposal procedures.

Analysis	Matrix	Schedule for disposal	Method for disposal	Comments
BTEX+Naphthalene+MTBE+ 1,2-DCA+8 Oxygenates	Water	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	None
EDB	Waters/Soils	Six Weeks	Tested for Hazardous Constituents and disposed as Hazardous or non-Hazardous waste.	None

Table 10A Sample Disposal

4. Provide SOPs for the Kerr Method or the Ferrous Iron Method if these are parameters for this study. This can be attached or written here. If attached please note that it is an attachment and where it is located (if applicable).

Not Applicable for this scope of work.

B5 Quality Control Requirements:

All QC will follow the requirements laid out in Section B5 of the UST Programmatic QAPP.

B6 Field Instrument and Equipment Testing, Inspection and Maintenance

1. Identify all field and laboratory equipment needing periodic maintenance, the schedule for this, and the person responsible. Note the availability and location of spare parts.

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person Responsible
Heron Little Dipper Water Level Indicator	18816	Indicator probe cleaning (in accordance with Section B2) and battery monitoring	Daily	Replacement probe/battery – available at Field Environmental Instruments, Inc. in Pittsburgh, PA	lvan Irizarry
Solinst Interface Meter - Model 122	122 007909- 1	Indicator probe cleaning (in accordance with Section B2)	Daily	Replacement probe – available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry
Oakton 35630-62 Multi-Parameter Meter (pH, specific conductivity, and temperature)	324976	Probe cleaning and calibration in accordance with SOP Attachment B	Weekly	Replacement parts available at Field Environmental Instruments, Inc. in Pittsburgh, PA	Ivan Irizarry

Instrument	Serial Number	Type of Maintenance	Frequency	Parts needed/Location	Person Responsible
YSI 550A Dissolved Oxygen Meter	06A1121AC	Probe cleaning and membrane replacement in accordance with SOP Attachment C	Cleaning – daily Membrane replacement - monthly	Cleaning supplies and additional membranes and salt solution - available at Pine Environmental Services, Inc. in Lilbum, GA	Ivan Irizarry
LaMotte Model 2020 Turbidimeter	3164-1602	Cleaning and calibration	Daily	Lint-free cloth and turbidity standards available at Pine Environmental Services, Inc. in Lilburn, GA	Ivan Irizarry
Volatiles Mass Spec	ALL	Change traps, clean ion source, replace filaments	Periodic	Laboratory	MSV Analyst
ECD GC	ALL	Injection port maintenance, column replacement	Periodic	Laboratory	GC Analyst

Table 11A Instrument and Equipment Maintenance

2. Identify the testing criteria for each lab or field instrument that is used to ensure the equipment is performing properly. Indicate how deficiencies, if found, will be resolved, re-inspections performed, and effectiveness of corrective action determined and documented. Give the person responsible for this.

Instrument/Equipment & Serial Number	Type of Inspection	Requirement	Individual Responsible	Resolution of Deficiencies
Heron Little Dipper Water Level Indicator 18816	Inspect probe/tape condition and battery output	Inspect probe and tape for continuity. Test probe with conductive water to ensure meter is properly working	Ivan Irizarry	Clean/replace probe or tape as necessary
Solinst Interface Meter - Model 122 122 007909-1	Inspect probe/tape condition and battery output	Inspect probe and tape for continuity. Test probe with conductive water to ensure meter is properly working	Ivan Irizarry	Clean/replace probe or tape as necessary
Oakton 35630-62 Multi- Parameter Meter 324976	Inspect probe condition and verify output reading accuracy	Inspect probe for cracks or breaks. Inspect for residue on probe tips. Compare output readings to known standards.	Ivan Irizarry	Clean/replace probe. Calibrate instrument if output readings do not match standard values
YSI 55 Dissolved Oxygen Meter 06A1121AC	Inspect probe/membrane condition.	Inspect probe for cracks or breaks. Verify that probe membrane is filled with salt (KCI) solution. Inspect for residue on probe tips. Compare output readings to known standards.	Ivan Irizarry	Clean/replace probe. Replace membrane. Calibrate instrument if output readings do not match standard values
LaMotte Model 2020 Turbidimeter 3164-1602	Inspect meter condition and verify output reading accuracy	Inspect glass cylinders for cracks or scratches that may interfere with proper turbidity measurements. Compare output readings to known standards.	Ivan Irizarry	Clean/replace glass cylinders. Calibrate instrument if output readings do not match standard values.

Instrument/Equipment	Type of	Requirement	Individual	Resolution of
& Serial Number	Inspection		Responsible	Deficiencies
	Daily calibration			Recalibration or
Volatiles Mass Spec	check	Method Requirements	MSV Analyst	instrument
	CHECK			maintenance
	Daily calibration			Recalibration or
ECD GC	check	Method Requirements	GC Analyst	instrument
	CHECK			maintenance

Table 12A Instrument and Equipment Inspection

B7 Instrument Calibration and Frequency

- 1. Identify equipment, tools, and instruments for field or lab work that should be calibrated and the frequency.
- 2. Describe how the calibrations should be performed and documented, indicating test criteria and standards or certified equipment.
- 3. Identify how deficiencies should be resolved and documented. Identify the person responsible for corrective action.

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Oakton 35630-62 Multi- Parameter Meter	Four point conductivity calibration; three point pH calibration; temperature verification	Daily	pH: Output value within ±1.00 pH unit of buffer Conductivity: Output value with 20% of calibration range at standard temperature.	Recalibrate equipment. If calibrations will not hold then replace unit.	Ivan Irizarry	SOP Attachment B Oakton pH/Conductivity Series 10 Multi- Parameter Tester Calibration Procedures
YSI 55 Dissolved Oxygen Meter	% Saturation	Daily	Output value within 1 mg/L of calibration solution.	Recalibrate equipment or replace membrane.	lvan Irizarry	SOP Attachment C YSI 550A Dissolved Oxygen Instrument Calibration and Maintenance Procedures
LaMotte Model 2020 Turbidimeter	AMCO Turbidity Standard (1.0 NTU, 10 NTU, 100 NTU, or 250 NTU) in the expected turbidity range of the samples to be tested	Daily or as needed during sampling	Output value within 0.1 NTU for measured turbidity values less than 10 NTU, and 1 NTU for measured turbidity values greater than 10 NTU.	Recalibrate equipment. If calibration will not hold then replace unit.	Ivan Irizarry	SOP Attachment D LaMotte Model 2020 Turbidimeter Calibration and Operation Procedures
Heron little dipper water level indicator	Calibrate against an invar steel surveyor's chain or steel tape	Monthly	Within 0.01 foot per 10 feet length	Replace water level meter tape	lvan Irizarry	See Master QAPP

Instrument	Calibration Procedure	Frequency of Calibration	Acceptance Criteria	Corrective Action (CA)	Person Responsible for CA	SOP Reference*
Solinst Interface Meter – Model 122	Calibrate against an invar steel surveyor's chain or steel tape	Monthly	Within 0.01 foot per 10 feet length	Replace water level meter tape	Ivan Irizarry	See Master QAPP
Volatiles Mass Spec	Minimum of 5 calibration standards for all compounds	When indicated by continuous calibration verification standard	Method Criteria	Detailed in Laboratory SOP	MSV Analyst	S-VO-002
GC ECD	Minimum of 5 calibration standards for all compounds	When indicated by calibration verification standard	Method Criteria	Detailed in Laboratory SOP	GC Analyst	S-SV-012

Table 13A Instrument Calibration Criteria and Corrective Action

B8 Inspection/Acceptance Requirements for Supplies and Consumables

- 1. Identify critical supplies and consumables for field and laboratory, noting supply source, acceptance criteria, and procedures for tracking, storing and retrieving these materials.
- 2. Identify the individual(s) responsible for this.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking
Leather work gloves	Grainger	New or in good condition	Store away from direct sunlight in	Ivan Irizarry
		(if previously used) with no tears	work vehicle	
Latex gloves	Eon Products	New material	Store in clean supply room located at BLE office	Ivan Irizarry
36-inch weighted polyethylene bailer	Eon Products	New material	Store in clean supply room located at BLE office	Ivan Irizarry
Five-gallon polyethylene bucket	Lowes	New or in good condition (if previously used) with no cracks or holes	Store in clean supply room located at BLE office	Ivan Irizarry
Nylon twine	Grainger/Lowes	New material	Store in clean supply room located at BLE office	Ivan Irizarry

^{*} This can be a full name of a SOP, an abbreviation, or a number. In the latter two cases, the abbreviation or number must be associated with the full name of the SOP. See also Table 8A SOP Abbreviation Key.

Item	Vendor	Acceptance criteria	Handling/Storage Conditions	Person responsible for inspection and tracking
Laboratory Chemicals	Fisher, VWR	Certificates of analysis and laboratory testing	Laboratory storage	Receiving and laboratory personnel
Laboratory standards	O2Si, Restek, High Purity, VHG, Supelco	Certificates of analysis and laboratory verifications	Vendor specific storage conditions	Laboratory Analysts
Sample Containers	Daniels Scientific, QEC	Certificates of analysis and laboratory testing	Bottle storage area	Sample receiving personnel
15 lb bags of ice	Convenience store	Pre-package bag of wet ice	Store in laboratory provided coolers	Ivan Irizarry
55-gallon steel open-head drums	Dependable Drum Co.	New or reconditioned. Drums with holes or cracks will not be accepted	Storage at BLE lay-down yard until transported to site. At the site, drums will be filled and staged in a safe location. Drums will be moved around the site with a 1,000-lb capacity drum dolly.	Ivan Irizarry
Non-hazardous waste labels (vinyl)	Grainger	New material	Store in clean supply room located at BLE office	Ivan Irizarry

Table 14A List of Consumables and Acceptance Criteria

B9 Data Acquisition Requirements (Non-Direct Measurements)

- 1. Identify data sources, for example, computer databases or literature files, or models that should be accessed or used.
- 2. Describe the intended use of this information and the rationale for their selection, i.e., its relevance to project.
- 3. Indicate the acceptance criteria for these data sources and/or models.

Data Source	Used for	Justification for use in this	Comments
		project	
Report of Groundwater Sampling Event	Identifying locations of the	Site plan and data tables utilized	None
- November 2011, prepared by BLE,	existing groundwater monitoring	for determining location of wells,	
dated January 16, 2012	wells at the site and obtaining	well depths, and historical	
	historical analytical results.	analytical results.	

Table 15A Non-Direct Measurements

4. Identify key resources/support facilities needed.

Not applicable to this scope of work.

B10 Data Management

1. Describe the data management scheme from field to final use and storage.

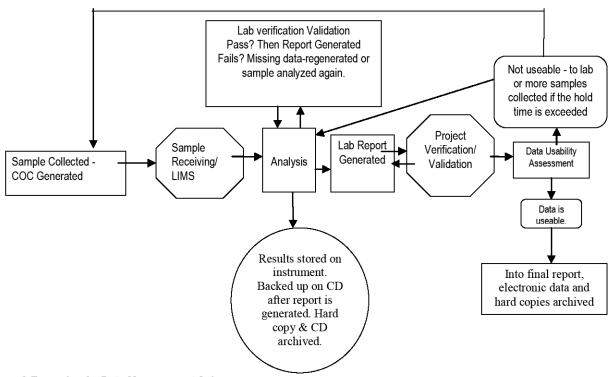


Figure 2 Example of a Data Management Scheme

2. How does the lab and field staff ensure that no unauthorized changes are made to the chain of custody, sampling notebooks, laboratory notebooks and computer records?

The chain of custody has an attached carbon copy, in which the field staff keeps one copy after the laboratory picks up samples. This original is used to determine if any changes are made to the COC after laboratory receipt. All COCs are reviewed by the laboratory during receipt of samples and submittal of final report. Looking for inappropriate changes to the COC is in the scope of both laboratory reviews. The Quality Assurance/Quality Control Department oversees adherence to and review of these programs.

Field notes and logs will be stored in hardback bound field books and/or on standard 8 ½" x 11" field data sheets. Field data sheets are signed by field staff upon completion of daily work.

Copies of field notes and sampling logs are reviewed by the Field Manager and placed in the project file. Additionally, field notes/logs are scanned, password secured, and placed into the digital project file. Original data sheets will also be kept by the field staff in field notebooks/folders for a minimum of three years.

3. How does the lab ensure that there are no errors in samples records including times when sample information is compiled, data calculated and/or transmitted.

The use of a Laboratory Information Management System (LIMS) is employed. The LIMS database is reviewed daily by laboratory management. Furthermore, the database is backed up daily to prevent the loss

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of data in the event of a system malfunction. Documentation of these procedures is provided in laboratory SOP S-AD-003, LIMS.

4. How will the data be archived once the report is produced? How can it be retrieved? (This applies to both electronic and hard copies).

The laboratory QA/QC department maintains and archives hardcopy data offsite. Electronic data is maintained and archived by the laboratory IT systems manager.

The final analytical data from Shealy Environmental Services, Inc. will be kept by the laboratory for a minimum of seven years. A hard copy of the data will be stored at an off-site facility and a digital copy will be saved on a backed-up computer server.

Hard copies of BLE's final reports are contained in the specific project folder in BLE's file library. Additionally, each report is converted to digital format and stored in its applicable digital file folder. Hard copy storage will be for a minimum of three years. Digital storage will be for a minimum of five years. Digital data is backed-up on a weekly basis on a four month rolling schedule. For security purposes, current week's data is stored at an off-site location. Additionally, data is backed-up and stored for a minimum of five years at an off-site location on a biannual basis.

<u>Section C – Assessment and Oversight</u>

C1 Assessment and Response Actions

1. The Contractor is supposed to observe field personnel daily during sampling activities to ensure samples are collected and handled properly and report problems to DHEC within 24 hours. Please state who is responsible for doing this and what observations will be made. Will this person have the authority to stop work if severe problems are seen?

Internal field audits will be performed on a daily basis by Trevor Benton, P.G. of Bunnell-Lammons Engineering, Inc. If any significant problems or deviations from the QAPP are noted, work may be stopped to resolve the issues. The SCDHEC project manager will be notified of the issues within 24 hours of the occurrence.

2. The SCDHEC UST QAPP states that the Lab will receive an Offsite Technical System Audit. For this project, what assessments will be done on the Commercial Lab(s) that are being used—other than their certification audit? When or how often are these done? Who will the results be given to and who has the ability to stop work if problems are severe?

The laboratory submits annual Proficiency Testing (PT) samples to Wibby Environmental. Wibby is an approved vendor that submits PT results to the office of environmental laboratory certification. The laboratory director has the authority to stop work and submit Corrective Actions if problems are severe.

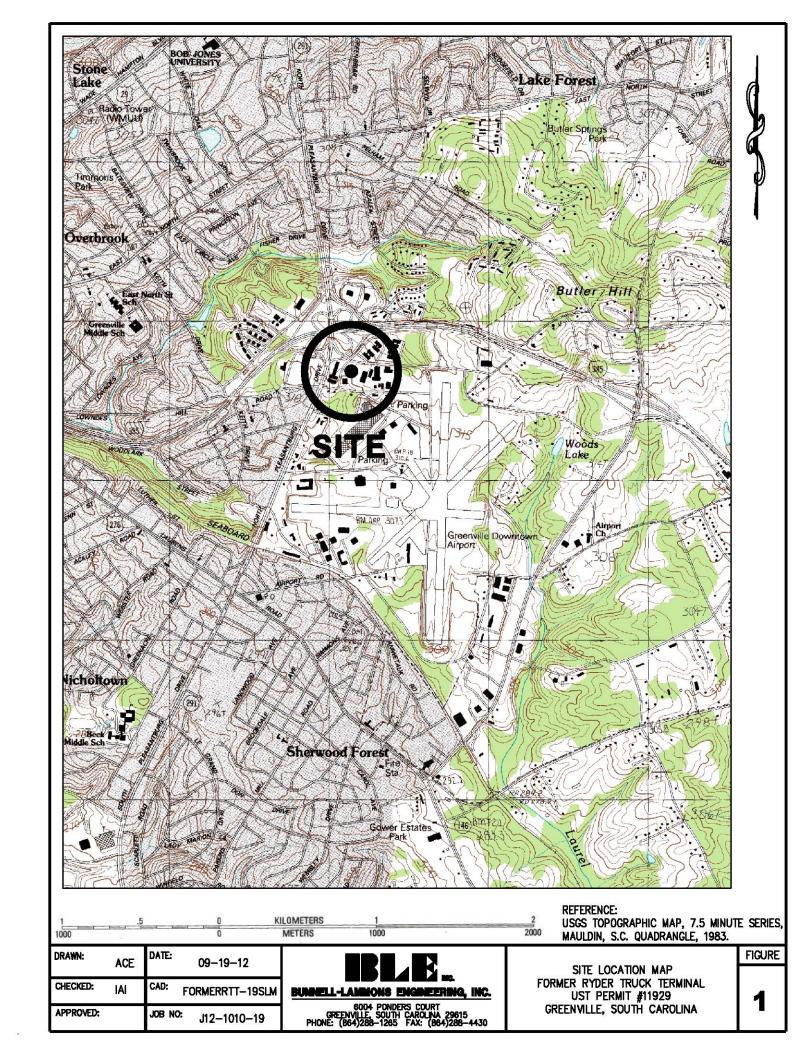
C2 Reports to Management

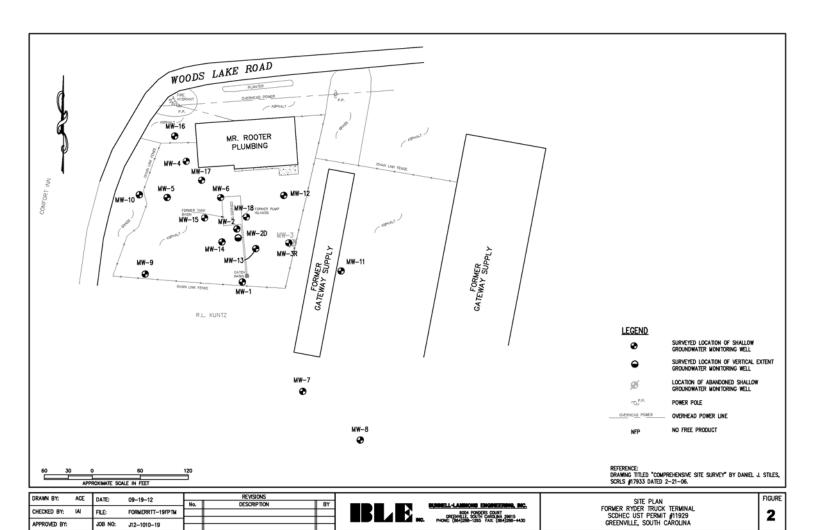
See the SC DHEC UST Programmatic QAPP (UST Master QAPP).

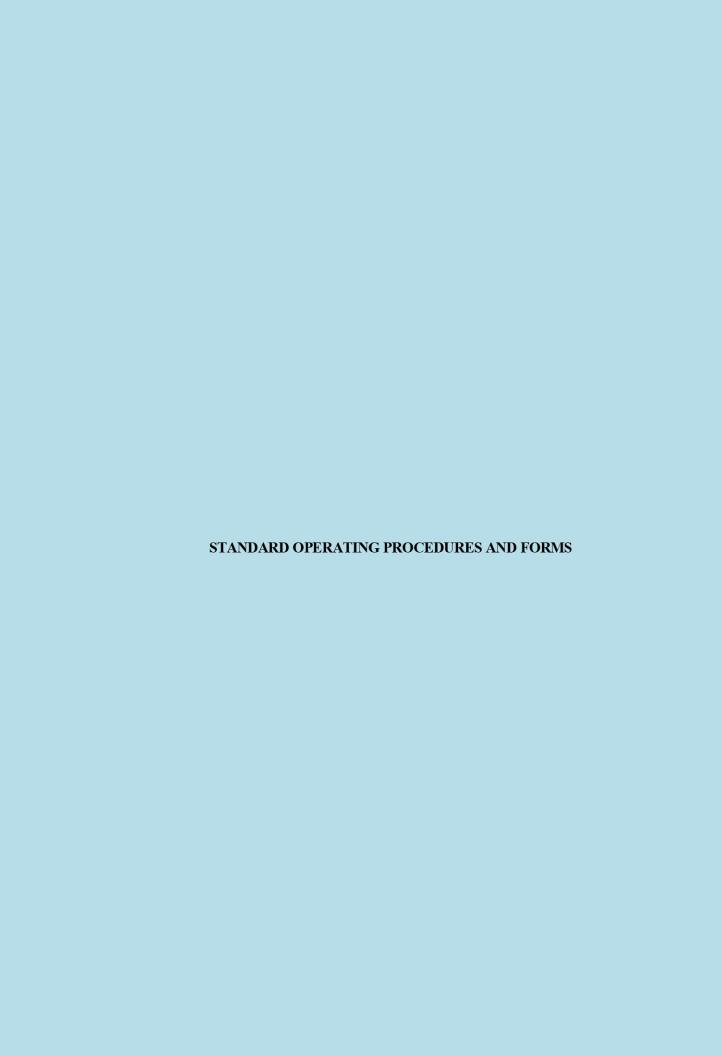
Section D Data Validation and Usability

See the SC DHEC UST Programmatic QAPP (UST Master QAPP).









ATTACHMENT A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells will be purged prior to sample collection to remove any stagnant water from the well so that the samples collected are representative of the groundwater quality in the vicinity of the well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature are measured periodically during well evacuation using instruments which were calibrated accordingly. Wells that are evacuated to dryness with less than three well volumes being removed will be sampled as soon as the well has recovered enough to yield sufficient volume for a sample.

The monitoring well will be purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused nylon cord. The well will also be sampled using a bailer as described above.

Samples will be placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples will be maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in West Columbia, South Carolina via courier service for analysis.

Chain of Custody Record

106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111 Shealy Environmental Services, Inc.

Number 02112

Client	Report to Contact		Sampler (Printed Name)		Quote No.	No.
Address	Telephone No. / Fax No. / Email		Waybill No.		Page	5
City State Zip Code P	Preservative				Z	Number of Containers
	1. Unpres. 4. HNO3 7. NaOH	- - - -			Bottle (Bottle (See Instructions on back)
Project Name	2. NaOH/ZnA 5. HCL					Preservative
3.	3. H2SO4 6. Na Thio.					Lot No.
Project Number P.O Number	q					
Sample ID / Description (Containers for each sample may be combined on one line)	Time G=Gra C=Compo	Other Other			Re	Remarks / Cooler ID
Turn Around Time Required (Prior lab approval required for expedited TAT) Sample Disposal	pedited TAT) Sample Disposal	00	QC Requirements (Specify) Po	Possible Hazard Identification	lon	
☐ Standard ☐ Rush (Please Specify)		☐ Disposal by Lab		□Non-Hazard □Flammable t	□Skin Irritant □F	□Poison □Unknown
1. Relinquished by / Sampler	Date	Time 1. R	1. Received by	Date	Time	
2. Relinquished by	Date	Time 2. R	2. Received by	Date	Time	
3. Relinquished by	Date	Time 3. R	3. Received by	Date	Time	
4. Relinquished by	Date	Time 4. L	4. Laboratory Received by	Date	Time	
Note: All samples are retained for six weeks from receipt	d for six weeks from re	n	1 2 2	8	_	
uniess other arrangements are made.	ements are made.	anaul	Heceived on Ice (Check) Tes TNO L	Lice rack Heceipt Lemp	dual I o.	lemp. Blank □ Y / □ N



ATTACHMENT B

OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES

The Oakton pH/conductivity multi-parameter series 10 tester requires a set of three calibrations for each of its output components. The three calibrations required for the meter are temperature, pH, and specific conductivity. The temperature calibration is based on comparing the meter based temperature reading to an appropriately calibrated thermometer. The pH calibration is based on a multi-point calibration utilizing three different buffers (pH 4, pH 7, and pH 10). The conductivity calibration is based on a four point calibration setup utilizing a set of predefined conductivity range solutions. The procedures to perform the three different calibrations are as follow.

Temperature Calibration

The built-in temperature sensor included in the probe is factory calibrated. The temperature sensor is calibrated only if temperature errors are suspected or if the probe is replaced. Temperature calibration procedures are as follows:

- 1. Power on the meter and select the pH mode.
- 2. Pres the Cal/measure key to enter calibration monde, the CAL indicator will appear above the primary display.
- 3. While in pH calibration mode, press the MODE key to enter temperature calibration mode. The primary display shows the temperature reading with zero offset and the secondary display shows you what the temperature value was initially.
- 4. The probe is dipped into a temperature bath and its allowed sufficient time for the meter's temperature reading to stabilize.
- 5. Once stabilized the temperature is set in to the meter using the up and down keys to match the temperature bath. The word Con appears on the screen indicating that calibration is complete.

Note:

Since temperature readings affect the accuracy of the pH and conductivity measurements, pH and conductivity calibration are performed following the completion of the temperature calibration is.

pH Calibration

The instrument is capable of performing three point calibrations for pH. Though the three points are not essential for calibration, for our purposes we shall perform a three point pH calibration. The calibrations are performed by using standard pH buffers of 4.00, 7.00 and 10.00.

- 1. Select pH mode
- 2. Rinse the probe with DI water or rinse solution.



OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES - CONTINUED

- 3. Dip the probe into the calibration buffer and stir the buffer. Press CAL/MEAS to enter the pH calibration mode. The primary display will show the measured reading while the smaller secondary display will indicate the pH standard buffer solution.
- 4. Wait for the measured pH value to stabilize. The READY indicator will display when the reading stabilizes.
- 5. After the reading has stabilized and the READY indicator is displayed, press ENTER to confirm the calibration. A confirming indicator (CON) flashes and disappears. The meter is now calibrated to the buffer indicated in the secondary display.

The secondary display automatically scrolls to the next buffer calibration option if you are performing multi-point calibration, go to

- 6. Press the up or down keys to select the next buffer value you want to calibrate (pH 4.00, 7.00 or 10.00).
- 7. Repeat steps 1 through 6.
- 8. When calibration is complete, press CAL/MEAS to return to pH measurement mode.

NOTE:

If the selected buffer value is not within ± 1.00 pH from the measured pH value: The electrode and buffer icon blink and the ERR enunciator appears in the lower left corner of the display. These indicators also flash if the buffer used is not the same as the buffer value on the secondary display.

Conductivity Calibration

The series 10 pH/conductivity meter has four different conductivity measuring ranges. You can calibrate one point in each of the measuring ranges (up to four points). If you are measuring values in more than one range, each of the ranges must be calibrated. The following table lists the corresponding conductivity range. You should calibrate each range using a solution that falls between the values in the "recommended calibration solution range" column.

Conductivity Range Calibration Solution Range:

0.00 μS	19.99 μS	6.00 µS	17.0 μS
0.00 μS	199.9 μS	60.0 μS	170 μS
0.00 μS	1999 μS	600 μS	1700 μS
0.00 mS	19.99 mS	6.00 mS	17.00 mS

Note: Minimum calibration value should be 20% of full scale for the specific range (e.g.: the LOWEST calibration value for the range of 0.00 to 19.99 μS is 4.00 μS). When the meter is recalibrated, old calibrations are replaced on a range basis.



OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES - CONTINUED

Conductivity calibration procedures are as follows:

- 1. Pour out two separate portions of the selected calibration standard and one of DI water into separate clean containers.
- 2. Select the conductivity mode on the meter.
- 3. Rinse the probe with DI water, and then rinse the probe in one portion of the calibration standard. Submerge the probe into the second portion of the calibration standard. The meter auto ranging function selects the appropriate conductivity range (four ranges are possible). Be sure the probe is free from air bubbles and sufficient calibration standard is used to cover the conductivity sensor. Wait for the reading to stabilize. Once the readings have stabilized, the READY indicator should appear in the upper left hand corner.
- 4. Press the CAL/MEAS key. The CAL indicator appears above the primary display. The primary display shows the measured reading and the secondary display shows the temperature.
- 5. Use the up and down keys to match the reading to the solution standard.
- Press the ENTER key to confirm calibration. Upon confirmation, the CON indicator appears briefly. The meter automatically switches back into Measurement mode. The display now shows the calibrated, temperature compensated conductivity value.
- 7. For calibration in other ranges (maximum: four ranges) repeat steps 1 through 6 with the appropriate calibration standards.

Meter Operation

The READY indicator appears on the display when the meter has stabilized. It will turn off if the readings start to fluctuate.

To take measurements:

- 1. Rinse the probe with DI water before use to remove any impurities adhering to the probebody. If the pH electrode has dehydrated, soak it for 30 minutes in tap water.
- 2. Switch on the meter. The MEAS annunciator appears on the top center of the LCD. The ATC indicator appears in the lower right hand corner to indicate Automatic Temperature Compensation.
- 3. Dip the probe into the sample. Allow time for the readings to stabilize. Note the readings on the display. When the readings are stable, the READY annunciator appears.
 - NOTE: Conductivity readings are auto-ranging and will automatically move to the correct range (four ranges possible).



OAKTON PH/CONDUCTIVITY SERIES 10 MULTI-PARAMETER TESTER CALIBRATION AND OPERATION PROCEDURES - CONTINUED

4. To toggle between pH and conductivity readings, press the MODE key.

NOTE: When measuring a sample, make sure that the probe is immersed beyond the electrode band. Stir the sample using the probe gently to create a homogenous sample.



ATTACHMENT C

YSI 550A DISSOLVED OXYGEN INSTRUMENT CALIBRATION, MAINTENANCE, AND OPERATION PROCEDURES

INSTRUMENT CALIBRATION

Dissolved oxygen calibration must be done in an environment with known oxygen content. The YSI 550A DO Instrument can be calibrated in either mg/L or % saturation. BLE's preference is utilizing the % saturation method. Calibration instructions are described below:

- 1. Ensure that the sponge inside the instrument's calibration chamber is moist. Insert the probe into the calibration chamber.
- 2. Power the instrument on and allow readings to stabilize. This may take 5 to 15 minutes, depending on the age of the instrument and condition of the probe.
- 3. Press and release both the **UP ARROW** and **DOWN ARROW** keys at the same time to enter the calibration menu.
- 4. Press the **Mode** key until "%" is displayed on the right side of the screen for oxygen units. Press **ENTER**.
- 5. The LCD will prompt you to enter the local altitude in hundreds of feet. Use the arrow keys to increase or decrease the altitude. When the proper altitude appears on the LCD, press the **ENTER** key.
- 6. **CAL** will now display in the lower left corner of the screen, the calibration value in the lower right corner and the current DO reading (before calibration) will be the main display. Once the current DO reading is stable, press the **ENTER** button.
- 7. The LCD will prompt you to enter the approximate salinity of the water you are about to analyze. You can enter any number from 0 to 70 parts per thousand (PPT) of salinity. Use the arrow keys to increase or decrease the salinity setting. When the correct salinity appears on the LCD, press the **ENTER** key. The instrument will return to normal operation.

Upon completion of % saturation calibration, dissolved oxygen values can be compared to a known oxygen content for verification. Typically a 0.0 mg/L dissolved oxygen solution is utilized for this verification step.

MEMBRANE MAINTENANCE

A thin semi-permeable membrane, stretched over the sensor, isolates the electrodes from the environment, while allowing gases to enter. When a polarizing voltage is applied to the sensor electrodes oxygen that has passed through the membrane reacts at the cathode causing a current to flow. The membrane passes oxygen at a rate proportional to the pressure difference across it. Since oxygen is rapidly consumed at the cathode, it can be assumed that the oxygen pressure inside the membrane is zero. Hence, the force causing the oxygen to diffuse through the membrane is proportional to the partial pressure of oxygen outside the membrane. As the oxygen partial pressure varies, so does the oxygen diffusion through the membrane. This causes the probe current to change proportionally. Additional membrane changes will be required



YSI 550A DISSOLVED OXYGEN INSTRUMENT CALIBRATION, MAINTENANCE, AND OPERATION PROCEDURES - CONTINUED

over time. The average replacement interval is 4 to 8 weeks, although they may last longer if kept clean. To clean the membrane, a Kimwipe, and rubbing alcohol will be used to gently remove the contamination. Membranes will be replaced as necessary. Membrane replacement procedures are described below:

- 1. Remove the probe sensor guard to access the probe tip.
- 2. Unscrew and remove the old membrane cap and discard.
- 3. Thoroughly rinse the sensor tip with distilled or DI water.
- 4. Fill a new membrane cap with O2 probe solution that has been prepared according to the directions on the bottle. Be very careful not to touch the membrane surface. Lightly tap the side of the membrane cap to release bubbles that may be trapped.
- 5. Thread the membrane cap onto the probe. It is normal for a small amount of electrolyte to overflow.
- 6. Replace the probe sensor guard.

METER OPERATION

It is important to recognize that a very small amount of oxygen dissolved in the sample is consumed during probe operation. It is therefore essential that the sample be continuously stirred at the sensor tip. If stagnation occurs, measurements will appear artificially low. Stirring may be accomplished by mechanically moving the sample around the probe tip, or by moving the probe through the sample. The YSI Model 550A has a flow dependence of <25%. The rate of stirring required is 1/2 foot per second (16cm per second). Measurement procedures are as follows:

- 1. Insert the probe into the sample to be measured.
- 2. Continuously stir or move the probe through the sample.
- 3. Allow temperature and dissolved oxygen readings to stabilize.
- Observe/Record readings.
- 5. Rinse the probe with clean water after each use and return probe to the calibration/storage chamber.
- 6. If unstable readings or membrane damage occurs, replace both the membrane cap and electrolyte solution.



ATTACHMENT D

LAMOTTE MODEL 2020 TURBIDIMETER CALIBRATION AND OPERATION PROCEDURES

The LaMotte Model 2020 Turbidimeter is a portable, microprocessor controlled nephelometer (suspended colloid meter). The LaMotte Model 2020 measures the scattering of a beam of light as it passes through a water sample in order to produce an average reading of nephelometric turbidity units (NTU). All readings are determined by the process of signal averaging over a 5 second period, minimizing fluctuations in readings attributed to large particles and enabling rapid, repeatable measurements. The microprocessor enables auto-ranging over the full range of 0 to 1,100 NTU and provides direct digital readout with a resolution of 0.01 NTU for the lowest range.

INSTRUMENT CALIBRATION

- Select a LaMotte AMCO 2020 Turbidity Standard (1.0 NTU, 10 NTU, 100 NTU, or 250 NTU) in the expected turbidity range of the samples to be tested. Wipe the outside of the standard tube with a clean, lint-free cloth.
- Open the lid of the meter. Align the indexing arrow mark on the tube with the indexing arrow mark on the meter, and insert the tube into the analysis chamber. Close the lid.
- Push the CAL button. While the display is flashing, adjust the display up or down using the arrow buttons until the value of the standard is displayed.
- Push the CAL button again to memorize the calibration. The display will stop flashing when the calibration is complete.

INSTRUMENT OPERATION

- Fill a clean sample tube with 50 ml of sample water and replace cap. Set sample aside to equilibrate with the air temperature and allow gases to escape.
- Rinse and empty a sample tube with a portion of the water sample and shake out excess water.
- Fill the sample tube to the neck by carefully pouring the temperature equilibrated sample down the side of the tube to avoid creating bubbles.
- Cap the tube and wipe dry with a clean, lint-free cloth.
- Open the meter lid, align the indexing arrow on the tube with the indexing arrow on the meter. Insert the tube into the meter chamber.
- Close the lid to the meter. Push READ button. The turbidity in NTU units will be displayed within 5 seconds.
- The meter will automatically turn off after 2 minutes after the last button is pressed. To turn off the meter manually, hold the READ button down for more than 1 second. Release the button when OFF is displayed.





H. Field Blank

ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account

Facility Name: Former Ryder Terminal UST Permit #: 11929 Cost Agreement # ITEM QUANTITY UNIT **UNIT PRICE** TOTAL 1 Plan* B. Tax Map \$50.00 \$0.00 Χ \$525.00 \$525.00 C. Tier II or Comp. Plan /QAPP Appendix B 1 Х 2. Receptor Survey * \$500.00 \$0.00 Х 3. Survey (500 x 500 feet) A. Comprehensive Survey \$1,000.00 \$0.00 Х B. Subsurface Geophysical Survey \$0.00 1. < 10 meters below grade \$2,750.00 Χ \$3,250.00 \$0.00 2. > 10 meters below grade Χ C. Geophysical UST or Drum Survey \$1,125.00 \$0.00 Х 4. Mob/Demob (Each) \$0.00 A. Equipment \$575.00 Х 2 \$290.00 \$580.00 B. Personnel Х C. Adverse Terrain Vehicle to install wells \$575.00 \$0.00 Х 5. Soil Borings (hand auger)* (Feet) \$14.00 \$0.00 feet Χ 6. Soil Borings (drilled) & Field Screening * Rate includes collection of water sample or soil sample, and lab or other analyses A. Standard feet \$17.00 \$0.00 \$0.00 C. Fractured Rock \$27.50 feet Χ 7. Soil Leachability Model (Each) \$200.00 \$0.00 each x 8. Abandonment* (per foot) \$5 00 \$0.00 A. 2" diameter or less feet Х \$5.50 \$0.00 B. Greater than 2" to 6" diameter feet Χ \$0.00 C. Dug/Bored well (up to 6 foot diameter) \$18.00 feet Х 9. Well Installation* (per foot) \$0.00 A. Water Table (hand augered) \$20.00 feet Х B. Water Table (drill rig) \$38.00 \$0.00 feet Х \$58.00 \$0.00 C. Telescoping/ Pit Cased feet Х D. Rock Drilling \$58.00 \$0.00 feet Х \$45.00 \$0.00 E. 2" Rock Coring feet Х G. Rock Multi-sampling ports/screens \$47.20 \$0.00 feet Х \$45.00 \$0.00 H. Recovery Well (4 inch diameter) each x \$0.00 \$18.50 I. Pushed Pre-packed screen (1.25 diameter) each x \$45.00 \$0.00 J. Rotosonic (2 inch diameter) each x 10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each) A. Groundwater Purge 19 wells x \$55.00 \$1,045.00 \$90.00 \$0.00 B. Air or Vapors samples x \$30.00 \$0.00 C. Water Supply samples x \$35.00 \$35.00 D. Groundwater No Purge or Duplicate 1 samples x \$0.00 \$20.00 E. Gauge Well only per well x \$50.00 \$0.00 F. Sample Below Product wells x G. Pasive Diffusion Bag \$40.00 \$0.00 each x

2

each x

\$5.00

\$10.00

1			1	ıg
11. Laboratory Analyses-Groundwater (Each Sample)		1 . 1	4400.00	
A1. BTEX+Naphth.+ Oxyg's+ 1,2 DCA + Ethanol	23	samples x	\$100.00	\$2,300.00
AA. Lead, Filtered		samples x	\$46.00	\$0.00
B1. Rush EPA Method 8260B (All of item A.)		samples x	\$143.00	\$0.00
C1. Trimethal, Butyl, and Isopropyl Benzenes		samples x	\$40.00	\$0.00
D. PAH's		samples x	\$120.00	\$0.00
E. Lead, Unfiltered		samples x	\$20.00	\$0.00
F. EDB by EPA 8011 1 field dup, 2 field blanks, 1 trip blank	23	samples x	\$55.00	\$1,265.00
FF. EDB by EPA Method 8011 Rush		samples x	\$75.00	\$0.00
G. 8 RCRA Metals		samples x	\$140.00	\$0.00
H. TPH (9070)		samples x	\$55.00	\$0.00
I. pH		samples x	\$10.00	\$0.00
J. BOD		samples x	\$40.00	\$0.00
P1. Ethanol		samples x	\$21.50	\$0.00
11. Analyses-Soil (Each Sample)				
Q. BTEX + Naphth.		samples x	\$100.00	\$0.00
R. PAH's		samples x	\$120.00	\$0.00
S. 8 RCRA Metals		samples x	\$150.00	\$0.00
T. Oil & Grease (9071)		samples x	\$60.00	\$0.00
U. TPH-DRO (3550B/8015B)		samples x	\$65.00	\$0.00
V. TPH- GRO (5030B/8015B)		samples x	\$65.00	\$0.00
W. Grain size/hydrometer		samples x	\$99.00	\$0.00
X. Total Organic Carbon		samples x	\$35.00	\$0.00
11. Analyses-Air (Each Sample)				
Y. BTEX + Naphthalene		samples x	\$247.50	\$0.00
11. Analyses-Free Phase Product (Each Sample)				
Z. Hydrocarbon Fuel Identification		samples x	\$620.00	\$0.00
12. Aquifer Characterization*				
A. Pumping Test		hours x	\$120.00	\$0.00
B. Slug Test*		tests x	\$150.00	\$0.00
C. Fractured Rock		tests x	\$500.00	\$0.00
13. Free Product Recovery Rate Test* (Each)		tests x	\$120.00	\$0.00
14. Fate/Transport Modeling				
A. Mathematical Model		each x	\$300.00	\$0.00
B. Computer Model		each x	\$500.00	\$0.00
15. Risk Evaluation				·
A. Tier I Risk Evaluation		x	\$300.00	\$0.00
B. Tier II Risk Evaluation		x	\$500.00	\$0.00
16. Subsequent Survey*		X	\$300.00	\$0.00
17. Disposal* (gallons or tons)		† †		,
A. Wastewater	100	gallons x	\$0.80	\$80.00
B1. Free Product		gallons x	\$0.85	\$0.00
C. Soil Treatment/Disposal		tons x	\$72.50	\$0.00
D. Drilling fluids		gallons x	\$0.80	\$0.00
18. Miscellaneous (attach receipts)		gazane A	\$0.00	\$0.00
, , ,		x		\$0.00
		x		\$0.00
		x x		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		X		\$0.00
21. IGWA (Use DHEC 3666 form)		X		\$0.00
22. Corrective Action (Use DHEC 3667 form)				\$0.00
		Х		φυ.υυ

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A. 8-hour Event*		each x	\$3,000.00	\$0.00
B. AFVR per-hour Continuance		per hour x	\$204.00	\$0.00
C. Off-gas treatment per-hour Continuance		per hour x	\$35.00	\$0.00
24. Granulated Activated Carbon (GAC) filter system inst	allation & servic		ψοσ.σσ	Ψ0.00
A. New GAC System Installation*		each x	\$2,500.00	\$0.00
B1. Refurbished GAC Sys. Install*		each x	\$1,180.00	\$0.00
C. Filter replacement/removal*		each x	\$450.00	\$0.00
D1. GAC System removal, cleaning, & refurbishment*		each x	\$720.00	\$0.00
E. GAC System housing		each x	\$450.00	\$0.00
F. In-line particulate filter		each x	\$150.00	\$0.00
G. Additional piping & fittings		feet x	\$4.00	\$0.00
25. Well Repair		icet x	Ψ4.00	Ψ0.00
A. Additional Copies of the Report Delivered		each x	\$32.50	\$0.00
B. Repair 2x2 MW pad		each x	\$100.00	\$0.00
C. Repair 4x4 MW pad		each x	\$150.00	\$0.00
D. Repair well vault		each x	\$225.00	\$0.00
F. Replace well cover bolts		each x	\$10.00	\$0.00
G. Replace locking well cap & lock		each x	\$15.00	\$0.00
H. Replace/Repair stick-up		each x	\$137.50	\$0.00
I. Convert Flush-mount to Stick-up		each x	\$175.00	\$0.00
J. Convert Stick-up to Flush-mount		each x	\$175.00	\$0.00
•		each x	\$123.00	\$0.00 \$0.00
K. Replace missing/illegible well ID plate	15%		\$5,840.00	\$876.00
Report Prep & Project Management TOTAL	13%	Х	Φ0,040.00	\$6,716.00
TOTAL				Φ0, <i>1</i> 10.00

^{*}The appropriate mobilization cost can be added to complete these tasks, as necessary

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602 NOV 2 1 2012



Re:

Groundwater Sampling Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit # 11929; CA# 44418 Release #2 reported February 25, 1997

Site Specific QAPP Contractor Addendum and Associated Cost Agreement received November 5, 2012

Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced addendum submitted on your behalf by Bunnell-Lammons Engineering, Inc. The next appropriate scope of work at the site is comprehensive groundwater sampling event. All work should be conducted in accordance with the UST Quality Assurance Division Plan and must be conducted in compliance with all applicable regulations. A copy of the Agency Quality Assurance Program Plan (QAPP) for the UST Management Division is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement # 44418 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, 8 oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks.

The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual CoC in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit #11929. If you have any questions regarding this correspondence, please contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement

Signed Site Specific QAPP Contractor Addendum

cc: Bynnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (with enc.)

Technical File (with enc.)

Section A: Project Management

A1 Title and Approval Page

Quality Assurance Project Plan Addendum to the SC DHEC UST Programmatic QAPP For	
Former Ryder Terminal – UST Permit #11929	_
10 Woods Lake Road, Greenville, South Carolina	
Prepared by: Trevor J. Benton, P.G – Bunnell-Lammons Engineering, Inc.	
Date: October 31, 2012	

Bunnell-Lammons Engineering, Inc. - SCDHEC Certified Contractor No. UCC-010

Approvals Stephanie Briney SC DHEC Project Manager Trever Z. Slack, P.G. Date 10/31/12 Contractor QA Manager Signature Thomas L. Lammons, P.G. 10/31/12 Date Site Rehabilitation Contractor Signature Neil Magee 10/31/12 Date_ Laboratory Director Signature

Approved Cost Agreement 44418 Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM

PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
01 PLAN				····•
	C TIER II/COMP. PLAN/QAPP APP B	1.0000	525.00	525.00
04 MOB/DEMOB				
	B PERSONNEL	2.0000	290.00	580.00
10 SAMPLE COLLECTION				
	A GROUND WATER	19.0000	55.00	1,045.00
	D GROUNDWATER NO-PURGE	1.0000	35.00	35.00
	H FIELD BLANK	2.0000	5.00	10.00
11 ANALYSES				
GW GROUNDWATER	A1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	23.0000	100.00	2,300.00
	F EDB	23.0000	55.00	1,265.00
17 DISPOSAL				.,
	A WASTEWATER	100.0000	0.80	80.00
19 RPT/PROJECT MNGT & COORDINATIO				· ·
	PCT PERCENT	0.1500	5,840.00	876.00



REPORT OF GROUNDWATER SAMPLING EVENT: JANUARY 2013

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, SOUTH CAROLINA
UST PERMIT # 11929; COST AGREEMENT # 44418

Prepared For:

Ms. Ingrid Auten C/O Ms. Annie Mumbauer BB&T Wealth Management Post Office Box 408 Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-0010

April 30, 2013

BLE Project Number J12-1010-19



April 30, 2013

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull Street Columbia, SC 29201-1708

Attention: Ms. Stephanie Briney

Hydrogeologist

Subject: Report Groundwater Sampling Event: January 2013

Former Ryder Truck Terminal Greenville, Greenville County UST Permit #11929; CA #44418 BLE Project No. J12-1010-19

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed the performance of a comprehensive groundwater sampling event at the above referenced site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) letter, dated November 21, 2012 and in accordance with BLE's Quality Assurance Program Plan (QAPP) Addendum dated September 20, 2012. The results of our activities are provided herein.

PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's



Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2012 by BLE to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

In an effort to evaluate the current groundwater chemicals of concern (CoC) trends at the subject site, the SCDHEC has required a comprehensive groundwater sampling event be conducted. The results of this scope of work are provided herein.

GROUNDWATER SAMPLING

A total of nineteen groundwater monitoring wells are associated with this release. Sixteen wells (MW-1, MW-2, MW-2D, MW-3R, MW-4, MW-5, MW-6, MW-9, MW-10, and MW-12 through MW-18) are located on-site, and three wells (MW-7, MW-8, and MW-11) are located off-site.

On January 21, 2013, BLE personnel mobilized to the site to measure groundwater levels and sample each applicable monitoring well. Monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18 were not sampled due to the presence of free-phase product in the wells. Additionally, site access for off-site monitoring wells MW-7, MW-8, and MW-11 was unable to be procured for this scope of work; therefore, water levels in these wells were unable to be collected. Free-product thicknesses and/or water-level measurements for the applicable wells are provided in Table 1. A water table elevation contour map, which shows the occurrence and direction of groundwater flow in the uppermost aquifer, is shown on Figure 2.

Pursuant to SCDHEC's Master QAPP dated June 2011, only wells which have not been sampled within one calendar year or do not bracket the screened interval of the well at the time of sampling,



were required to be purged. As the site has not been sampled since November 2011, each monitoring well was purged prior to sample collection. Purge water generated during the monitoring well purging and sampling was contained in a sealed 55-gallon drum on site. This waste (23 gallons) was transported off-site for disposal. Monitoring well purging and sampling field procedures and sampling logs are included in Appendix A. Waste transportation and disposal records are attached in Appendix B.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were delivered to Shealy Environmental Services, Inc in West Columbia, South Carolina for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tert-butyl-ether (MTBE), 1,2-dichloroethane (1,2-DCA), and eight oxygenates by EPA Method 8260B and 1,2-dibromoethane (EDB) by EPA Method 8011. Additionally, as required by SCDHEC's Master QAPP dated June 2011, one field duplicate (MW-2(DUP)), one field blank (Field Blank-1), and one trip blank (Trip Blank-1) were collected and submitted for the appropriate laboratory analyses.

LABORATORY RESULTS

Of the 11 groundwater monitoring wells sampled for laboratory analysis, three locations (MW-2, MW-13, and MW-14) detected petroleum CoCs above South Carolina Risk-Based Screening Levels¹ (RBSLs). Additionally, free-product was detected in monitoring wells MW-3R (0.21 feet), MW-4 (0.37 feet), MW-6 (1.83 feet), MW-15 (0.25 feet), MW-17 (2.90 feet), and MW-18 (0.40) at the time of our sampling event. Laboratory analytical results for the groundwater samples are summarized in Tables 2 and 3 and are shown on Figure 3. Laboratory analytical data sheets are provided in Appendix C.

-

¹ South Carolina Risk-Based Corrective Action for Petroleum Releases, May 15, 2001.



CONCLUSIONS AND RECOMMENDATIONS

During the current assessment, laboratory analyses detected various CoCs in monitoring wells

MW-2, MW-13, and MW-14 exceeding established RBSLs. Additionally, petroleum free-product

was detected in six on-site monitoring wells (MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-

18).

Since free-phase petroleum product is still present at moderate thicknesses in monitoring wells

MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18, we recommend a series of five additional

AFVR events be conducted at the site. After a minimum of 30 days from the final AFVR event,

we recommend a comprehensive groundwater sampling event be performed on all wells associated

with the site to evaluate current groundwater chemical data.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally

employed in hydrogeological assessments of this type. Our evaluation of site conditions has been

based on our understanding of the site and project information and the data obtained in our

exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten, c/o Ms.

Annie Mumbauer of BB&T Wealth Management. This report and the findings contained herein

shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written

consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and

without liability to BLE.

ASSESSMENT COMPONENT INVOICE

The Assessment Component Invoice will be submitted under separate cover to Mrs. Robertha

Dorsey of the SCDHEC Bureau of Land and Waste Management, Financial Section, for payment.

4



CLOSING

Please contact us at (864) 288-1265 if you have any questions.

Sincerely,

BUNNELL-LAMMONS ENGINEERING

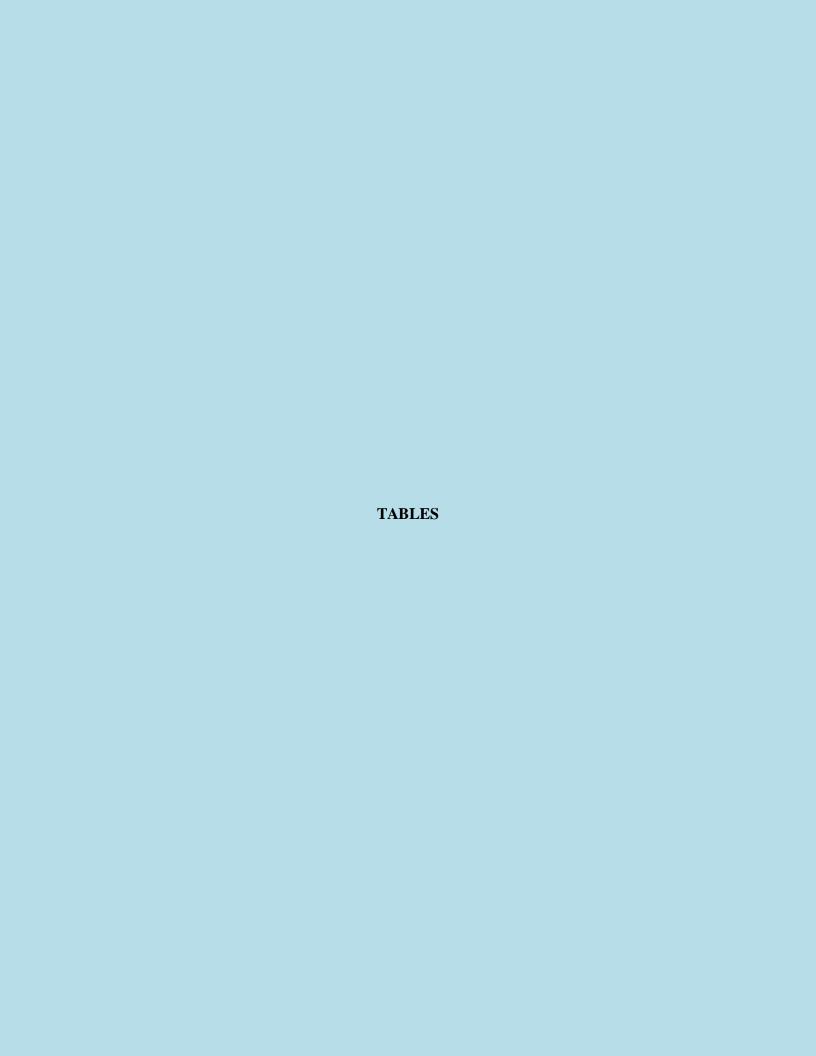
Trevor J. Benton, P.G. Project Hydrogeologist

Registered, South Carolina #23

Thomas L. Lammons, P.G., CHMM

Principal

Registered, South Carolina #893



Monitoring Well and Groundwater Surface Elevation Data Former Ryder Truck Terminal Greenville, South Carolina

UST Permit #11929; Cost Agreement #44418 BLE Project No. J12-1010-19

Boring ID#	Top of Casing Elevation	Ground Surface Elevation	GW Depth (btoc)	Free Product Thickness	GW Depth (bgs)	GW Elevation	Well Depth	Screen Depth	Screen Elevation
MW-1	100.70	98.48	29.00	NA	26.79	71.70	31.0	21.0 - 31.0	77.5 - 67.5
MW-2	100.10	100.54	26.90	NA	27.34	73.20	30.0	20.0 - 30.0	80.5 - 70.5
MW-2D	99.29	99.76	28.59	NA	29.07	70.70	54.5	49.5 - 54.5	50.3 - 45.3
MW-3			<u> </u>		Well abando	ned December 5,	2005		
MW-3R*	99.00	99.57	26.36	0.21	26.93	72.64	32.4	22.2 - 32.2	77.4 - 67.4
MW-4*	102.67	102.91	26.31	0.37	26.55	76.36	29.5	19.5 - 29.5	83.4 - 73.4
MW-5	101.48	101.71	26.55	NA	26.79	74.93	29.0	19.0 - 29.0	82.7 - 72.7
MW-6*	101.74	102.12	27.85	1.83	28.23	73.89	29.5	19.5 - 29.5	82.6 - 72.6
MW-7	92.67	92.97	NM	NA	NM	NM	32.8	22.8 - 32.8	70.2 - 60.2
MW-8	88.76	88.87	NM	NA	NM	NM	29.8	19.8 - 29.8	69.1 - 59.1
MW-9	102.26	102.65	27.35	NA	27.74	74.91	30.7	20.4 - 30.4	82.3 - 72.3
MW-10	104.67	104.67	26.35	NA	26.35	78.32	30.1	19.8 - 29.8	84.9 - 74.9
MW-11	100.66	100.92	NM	NA	NM	NM	31.0	20.7 - 30.7	80.2 - 70.2
MW-12	101.38	101.68	27.85	NA	28.15	73.53	30.9	20.7 - 30.7	81.0 - 71.0
MW-13	98.62	98.95	25.80	NA	26.13	72.82	33.2	23.0 - 33.0	76.0 - 66.0
MW-14	99.30	99.83	25.85	NA	26.38	73.45	32.0	21.8 - 31.8	78.0 - 68.0
MW-15*	100.39	100.58	26.38	0.25	26.57	74.01	33.5	23.3 - 33.3	77.3 - 67.3
MW-16	102.74	103.03	25.49	NA	25.78	77.25	34.4	24.2 - 34.2	78.8 - 68.8
MW-17*	102.09	102.49	27.47	2.90	27.87	74.62	35.0	24.8 - 34.8	77.7 - 67.7
MW-18*	100.39	100.74	27.12	0.40	27.47	73.27	35.6	25.4 - 35.4	75.3 - 65.3

NOTES:

Groundwater levels were measured on January 21, 2013.

Measurements are in feet; elevations are relative to an arbitrary site datum.

* = Depth to groundwater measurements for MW-3R, MW-4, MW-6, MW-15, MW-17 and MW-18 have been corrected for the presence of free-product thickness using a density of 0.70 g/cc.

btoc = below top of casing

bgs = below ground surface

FP = Free-Product

NA = Not Applicable.

Historical Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #44418 BLE Project No. J12-1010-19

Well	Date Sampled	Free Product Thickness	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	MTBE (μg/L)	Naphthalene (µg/L)	EDB (μg/L)	1,2-DCA (μg/L)
SC DHE	C RBSL	(feet) NA	5	1,000	700	10,000	40	25	0.05	5
	12/13/96	NA	20.6	1.74	2.61	6.4	ND	ND	NT	NT
	02/10/98 03/29/99	NA NA	ND 2.6	ND ND	ND ND	ND ND	ND ND	ND ND	ND NT	NT NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03 02/03/04	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	NT NT
MW-1	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07 09/09/08	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	0.028	NT
	11/23/09	NA NA	<5 <5	<5 <5	<5 <5	<10 <5	<5 <5	<5 <5	<0.020 <0.020	<5 <5
	01/21/13	NA NA	<5	<5	<5	<5	<5	<5	<0.020	<5
	12/13/96	NA	249	22.5	43.5	363	11.1	900	NT	NT
	02/10/98 03/29/99	0.7 1.25	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	07/05/01	1.25	NS	NS	NS	NS	NS	NS	NS	NS
	01/28/03	1.92	NS	NS	NS	NS	NS	NS	NS	NS
100.0	02/02/04 01/20/05	0.01	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
MW-2	02/23/06	NA	120	ND	6.8	170	ND	240	0.33	NT
	05/29/07 09/09/08	0.26	NS NC	NS NC	NS NC	NS NC	NS NC	NS NC	NS NC	NS NC
	09/09/08	0.29	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	11/23/09	NA	25.6	<5	<5	41.1J	<5	53.3	0.061	<5
	11/02/11	NA NA	35.0	<5	<5	16.0	0.59J	110	<0.019	<5
MW-2 (DUP)	01/21/13 01/21/13	NA NA	37.0 31.0	<25 <25	<25 <25	40.0 30.0	<25 <25	440 370	<0.019 <0.019	<25 <25
	02/10/98	NA	2.55	ND	ND	3.21	ND	12.5	ND	NT
	03/29/99	NA NA	3.47	ND ND	ND ND	ND ND	3.12	4.3	NT NT	NT
	07/05/01 01/28/03	NA NA	ND 1.4	ND ND	ND ND	ND ND	ND 1.2	ND ND	NT NT	NT NT
	02/03/04	NA	ND	ND	ND	ND	3.7	ND	NT	NT
MW-2D	01/20/05	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT
1V1 VV - ZD	02/23/06 05/29/07	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND NT	NT NT
	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA NA	1.1	ND	ND	ND	ND	ND	ND	NT
	11/23/09 11/02/11	NA NA	1.2J 2.9J	<5 <5	<5 <5	<10 <5	<5 0.68J	<5 3.2J	<0.020 <0.019	<5 <5
	01/21/13	NA	2.9J	<5	<5	<5	0.58J	<5	< 0.019	<5
	02/10/98	NA	62.5	6.4	19.3	193	ND	106	ND	NT
	03/29/99 07/05/01	0.01	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
MW-3	01/28/03	0.12	NS NS	NS	NS	NS	NS NS	NS	NS	NS
	02/02/04	NA	NS	NS	NS	NS	NS	NS	NS	NS
	01/20/05 02/23/06	NA	NS	NS	NS Moni	NS toring Well Aban	NS doned	NS	NS	NS
	02/24/06	NA	40.0	ND	ND	81.0	ND	120	0.90	NT
	05/29/07	NA	48.0	ND	ND	109	ND	140	0.51	NT
MW-3R	09/09/08	0.6	23.2 NS	ND NS	ND NS	17.7 NS	ND NS	63.2 NS	0.44 NS	ND NS
	11/23/09	0.04	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	0.35	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/12 02/10/98	0.21 NA	NS 2.2	NS ND	NS 1.73	NS 150	NS ND	NS 186	NS ND	NS NT
	03/29/99	NA	ND	ND	ND	10.6	ND	26.2	NT	NT
	07/05/01	NA	ND	ND	ND	21.5	ND	49.6	NT	NT
	01/28/03 02/02/04	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	NT NT
MW-4	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
141 44 -4	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08 02/23/09	0.96	NS	NS	NS	NS Dry	NS	NS	NS	NS
	11/23/09	0.47	NS	NS	NS	NS	NS	NS	NS	NS
	11/02/11	1.32	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13 02/10/98	0.37 NA	NS 16.5	NS ND	NS ND	NS 6.83	NS ND	NS 33.3	NS ND	NS NT
	03/29/99	NA	ND	ND	1.13	6.26	ND	50.2	NT	NT
	07/05/01	NA NA	ND	ND	ND 5.1	ND	ND ND	ND 5.0	NT	NT
	01/28/03 02/02/04	NA NA	25.2 23.1	11.5 4.0	5.1 2.0	32.4 8.7	ND ND	5.0 ND	NT NT	NT NT
	01/20/05	NA	11.0	ND	ND	ND	ND	ND	ND	NT
MW-5	02/23/06 05/29/07	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND NT	NT NT
	05/29/07	NA NA	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT ND
	02/23/09	NA	1.0	5.9	2.8	7.8	ND	9.7	ND	NT
	11/23/09	NA NA	<5 0.32J	<5 2.3J	1.8J 2.4J	<10 3.6J	<5 <5	<5 <5	<0.019 <0.020	<5 <5
	01/21/13	NA NA	0.32J <5	2.3J <5	2.4J <5	3.6J <5	<5	<5	<0.020	<i>♦</i>
	02/10/98	NA	523	1,670	104	434	92.7	409	ND	NT
	03/29/99 07/05/01	>3.0	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	01/28/03	>3.0	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	02/02/04	2.19	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	01/20/05 02/23/06	1.72	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	02/23/06	0.63	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	09/09/08	0.42	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	2.10	NG	NIG	NG	Dry	NG	MG	Nic	N.O.
	11/23/09 11/02/11	3.10 2.90	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS NS
	01/21/13	1.83	NS	NS	NS	NS	NS	NS	NS	NS
	09/15/99	NA NA	ND	ND	ND	ND	ND	ND 20.1	NT	NT
	07/05/01 01/28/03	NA NA	12.9 6.2	ND ND	ND ND	11.6 4.0	6.8 3.2	6.0	NT NT	NT NT
	02/02/04	NA	ND	ND	ND	ND	3.8	ND	NT	NT
	01/20/05	NA NA	ND ND	ND	ND	ND ND	ND	ND	ND ND	NT
MW 7	02/24/06	NA NA	ND NT	ND NT	ND NT	ND NT	ND NT	ND NT	ND NT	NT NT
MW-7	09/09/08			414	111	414	111		111	
MW-7	09/09/08 02/23/09	NA	34.0	ND	ND	40.6	2.8	89.9	0.23	NT
MW-7			34.0 <5 0.22J	ND <5 <5	ND <5 <5	40.6 <10 <5	2.8 <5 <5	89.9 <5 <5	0.23 <0.019 0.023	NT <5 <5

Historical Laboratory Analytical Results Volatile Organic Compounds Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #44418 BLE Project No. J12-1010-19

Well	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	MTBE (μg/L)	Naphthalene (μg/L)	EDB (µg/L)	1,2-DC/ (μg/L)
SC DHE	CRBSL	NA	5	1,000	700	10,000	40	25	0.05	5
	09/15/99	NA	ND	ND	ND	ND	ND	ND	NT	NT
	07/05/01	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/28/03	NA	ND	ND	ND	ND	ND	ND	NT	NT
	02/02/04	NA	ND	ND	ND	ND	ND	ND	NT	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
MW-8	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	< 0.019	<5
	01/21/13				Site	e Access Not Gra	nted			
	02/03/04	NA	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/23/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
MW-9	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
IVI VV - 9										
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	< 0.019	<5
	01/21/13	NA	<5	<5	<5	<5	<5	<5	< 0.019	<5
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	ND	ND	NT	NT
MW-10	09/09/08	NA	ND	ND	ND	ND	ND	ND	ND	ND
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	5.4J	<5	<5	<0.020	<5
	11/02/11	NA	<5	<5	<5	<5 2.21	<5	<5	<0.020	<5
	01/21/13	NA	<5	<5	<5	2.3J	<5	<5	< 0.019	<5
	02/02/04	NA	ND	ND	ND	ND	ND	ND	ND	NT
	01/20/05	NA	ND	ND	ND	ND	ND	ND	ND	NT
	02/24/06	NA	ND	ND	ND	ND	ND	ND	ND	NT
	05/29/07	NA	NT	NT	NT	NT	NT	NT	NT	NT
MW-11										
IVI VV - 1 1	09/09/08	NA	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09	NA	<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/02/11	NA	<5	<5	<5	<5	<5	<5	< 0.020	<5
	01/21/13				Site	e Access Not Gran	nted			
	02/24/06	NA	ND	ND	ND	ND	6.1	ND	ND	NT
	05/29/07	NA	ND	ND	ND	ND	11.0	ND	NT	NT
		NA NA	ND	ND	ND	ND		ND		ND
	09/09/08	NA	ND	ND	ND		11.8	ND	ND	ND
MW-12	02/23/09			,		Dry				
	11/23/09	NA	<5	<5	<5	<10	14.0	<5	< 0.02	<5
	11/02/11	NA	<5	<5	<5	<5	18.0	<5	< 0.019	<5
	01/21/13	NA	<5	<5	<5	<5	15.0	<5	< 0.019	<5
	02/24/06	NA	100	ND	ND	110	ND	100	0.76	NT
	05/29/07	NA	160	ND	ND	199	ND	170	0.62	NT
	09/09/08	NA	77.0	ND	ND	101	ND	226	0.162	ND
MW-13	02/23/09	NA	23.5	ND	ND	46.2	ND	68.1	0.18	NT
	11/23/09	NA	23.6	<5	<5	69.4	<5	58.4	0.46	<5
	11/02/11	NA	34.0	<5	<5	82.0	1.7J	130	0.30	<5
	01/21/13	NA	40.0	<25	<25	81.0	<25	190	0.12	<25
	02/24/06	NA	160	34.0	480	620	ND	160	0.46	NT
	05/29/07	NA	220	ND	550	700	ND	250	0.26	NT
	09/09/08	NA	82.4	3.81	54.8	67.1	ND	75.0	0.118	ND
MW-14	02/23/09	NA	175	9.9	303	119.8	1.9	194	0.20	NT
	11/23/09	NA	150	10.5	263	93.8J	<10	81.5	0.084	<10
	11/02/11	NA	36.0	2.0J	65.0	4.3J	<5	29.0	0.013J	<5
	01/21/13	NA NA	130	<25	360	<25	<25	160	< 0.021	<25
	02/24/06	NA	100	8.0	25.0	160	ND	140	0.54	NT
	05/29/07	NA	190	12.0	21.0	240	ND	390	0.45	NT
	09/09/08	0.29	NS	NS	NS	NS	NS	NS	NS	NS
MW-15	02/23/09	0.13	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	0.90	NS	NS	NS	NS	NS	NS	NS	NS
		0.87			NS		NS			
	11/02/11		NS NC	NS NC		NS NC		NS NC	NS	NS NC
	01/21/13	0.25	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	NA	ND	ND	ND	ND	ND	ND	ND	NT
MW 16	11/24/09	NA	<5	<5	<5	<10	<5	<5	< 0.020	<5
MW-16	11/02/11	NA	<5	<5	<5	<5	<5	<5	< 0.019	<5
	01/21/13	NA	<5	<5	<5	<5	<5	<5	< 0.019	<5
	02/23/09	0.79	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	11/23/09	2.31	NS	NS	NS	NS	NS	NS	NS	NS
1/	11/02/11	1.65	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13	2.90	NS	NS	NS	NS	NS	NS	NS	NS
	02/23/09	0.45	NS	NS	NS	NS	NS	NS	NS	NS
		0.11	NS	NS						
MW-18	11/23/09				NS	NS	NS	NS	NS	NS
	11/02/11	0.56	NS	NS	NS	NS	NS	NS	NS	NS
		0.40	NS	NS	NS	NS	NS	NS	NS	NS
	01/21/13									
eld Blank-1	01/21/13	<5	<5	<5	<5	<5	<5	<5	< 0.019	<5

Notes: µg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

mg/liter = milligrams/liter = approximate Parts Per Million (ppm)

Bold and shaded cells indicate concentrations above RBSLs

NA = Not Applicable
ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled NE = RBSL has not been established $RBSL = Risk\ Based\ Screening\ Level$

J = J-flagged result. The concentration was detected between the laboratory method detection limit and the laboratory reporting limit. This concentration should be considered approximate.

* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event; therefore no groundwater data is available. The well was abandoned on 12/5/05.

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #44418 BLE Project No. J12-1010-19

Boring ID#	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L)
SC DHE	C RBSL	128	240	NE	1,400	150	10,000	47	NE
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-1	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	02/23/09	NS	NS	NS	NS	NS	NS	NS	NS
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-2	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<50	<100	<25	<100	<25	< 500	<5	<100
MW-2 (DUP)	01/21/13	<50	<100	<25	<100	<25	< 500	<5	<100
	02/23/09	NT	70.5	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-2D	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
MW-3	02/23/06				Well Ab	andoned		ı	
	02/23/09			Well not sa	mpled due to 0.60	0 feet of free-prod	duct present		
	11/23/09			Well not sa	mpled due to 0.04	4 feet of free-prod	luct present		
MW-3R	11/02/11			Well not sa	mpled due to 0.33	5 feet of free-prod	duct present		
	01/21/13			Well not sa	mpled due to 0.2	1 feet of free-prod	duct present		
	02/23/09				D	-	-		
	11/23/09			Well not sa		7 feet of free-prod	duct present		
MW-4	11/02/11					2 feet of free-prod	-		
	01/21/13				<u> </u>	7 feet of free-prod			
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
were measured of	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	02/23/09		· · ·			ry			
	11/23/09			Well not sa		0 feet of free-prod	luct present		
MW-6	11/02/11					0 feet of free-prod	<u> </u>		
	01/21/13					3 feet of free-prod	<u> </u>		
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-7	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-8	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-9	11/23/09	<10	<20	<5	<20	<5	<100	<10	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1 <1	<20
	02/23/09	NT	<20 NT	NT	<20 NT	NT	<100 NT	NT	<20 NT
	11/23/09	<10	<100	<50	<100		<200		<100
MW-10						<5		<10	
	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, South Carolina UST Permit #11929; Cost Agreement #44418 BLE Project No. J12-1010-19

Boring ID#	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L)
SC DHE	C RBSL	128	240	NE	1,400	150	10,000	47	NE
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
M337 11	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-11	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	NT	NT	NT	NT	NT	NT	NT	NT
	02/23/09				D	ry			
MXV 10	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-12	11/02/11	0.67J	<20	<5	<20	<5	46J	<1	<20
	01/21/13	0.40J	<20	<5	<20	<5	<100	<1	<20
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
MW-13	11/24/09	<10	<100	<50	<100	<5	<200	<10	<100
IVI W -13	11/02/11	<10	9.1J	<5	11.0J	<5	<100	<1	<20
	01/21/13	<50	<100	<25	<100	<25	< 500	<5	<100
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
3.4337.1.4	11/23/09	<20	<200	<100	<200	<10	<400	<20	<200
MW-14	11/02/11	<10	<20	<5	22.0	<5	<100	<1	<20
	01/21/13	<50	110	<25	<100	<25	< 500	<5	<100
	02/23/09			Well not sa	mpled due to 0.13	3 feet of free-prod	luct present		
NASS 15	11/23/09			Well not sa	mpled due to 0.90	0 feet of free-prod	luct present		
MW-15	11/02/11			Well not sa	mpled due to 0.8	7 feet of free-prod	luct present		
	01/21/13			Well not sa	mpled due to 0.2:	5 feet of free-prod	luct present		
	02/23/09	NT	NT	NT	NT	NT	NT	NT	NT
MW 16	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
MW-16	11/02/11	<10	<20	<5	<20	<5	<100	<1	<20
	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	02/23/09			Well not sa	mpled due to 0.79	9 feet of free-prod	luct present		
M337 17	11/23/09			Well not sa	mpled due to 2.3	1 feet of free-prod	luct present		
MW-17	11/02/11			Well not sa	mpled due to 1.63	5 feet of free-prod	luct present		
	01/21/13			Well not sa	mpled due to 2.90	0 feet of free-prod	luct present		
	02/23/09			Well not sa	mpled due to 0.4:	5 feet of free-prod	luct present		
N/33 7 10	11/23/09			Well not sa	mpled due to 0.1	1 feet of free-prod	luct present		
MW-18	11/02/11			Well not sa	mpled due to 0.50	6 feet of free-prod	luct present		
	01/21/13			Well not sa	mpled due to 0.33	5 feet of free-prod	luct present		
Field Blank-1	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20
Trip Blank-1	01/21/13	<10	<20	<5	<20	<5	<100	<1	<20

Notes:

 $\mu g/liter = micrograms/liter = approximate\ Parts\ Per\ Billion\ (ppb)$ **Bold** and shaded cells indicate concentrations above RBSLs

ND = Not Detected at the Method Detection Limit

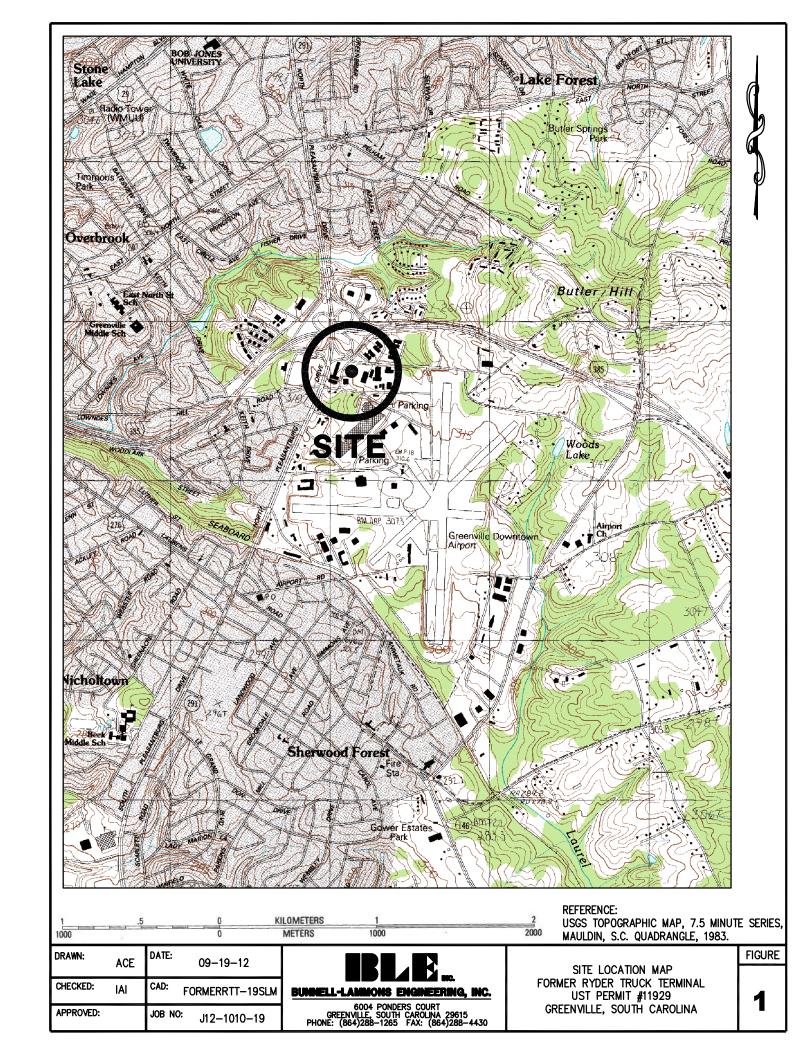
NT = Not Tested

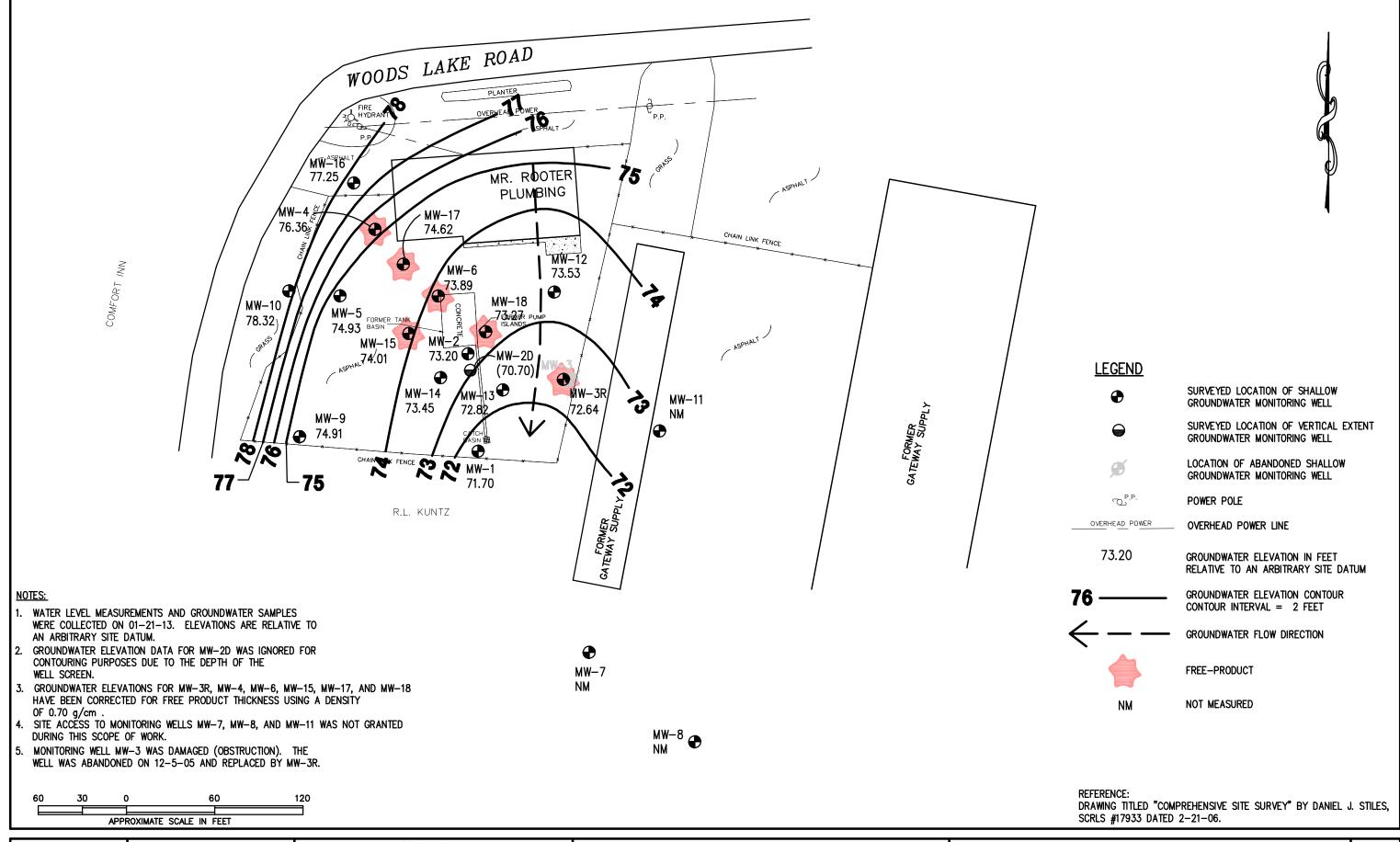
NE = RBSL has not been established RBSL = Risk Based Screening Level

The well was abandoned on 12/5/05.

^{* -} Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.







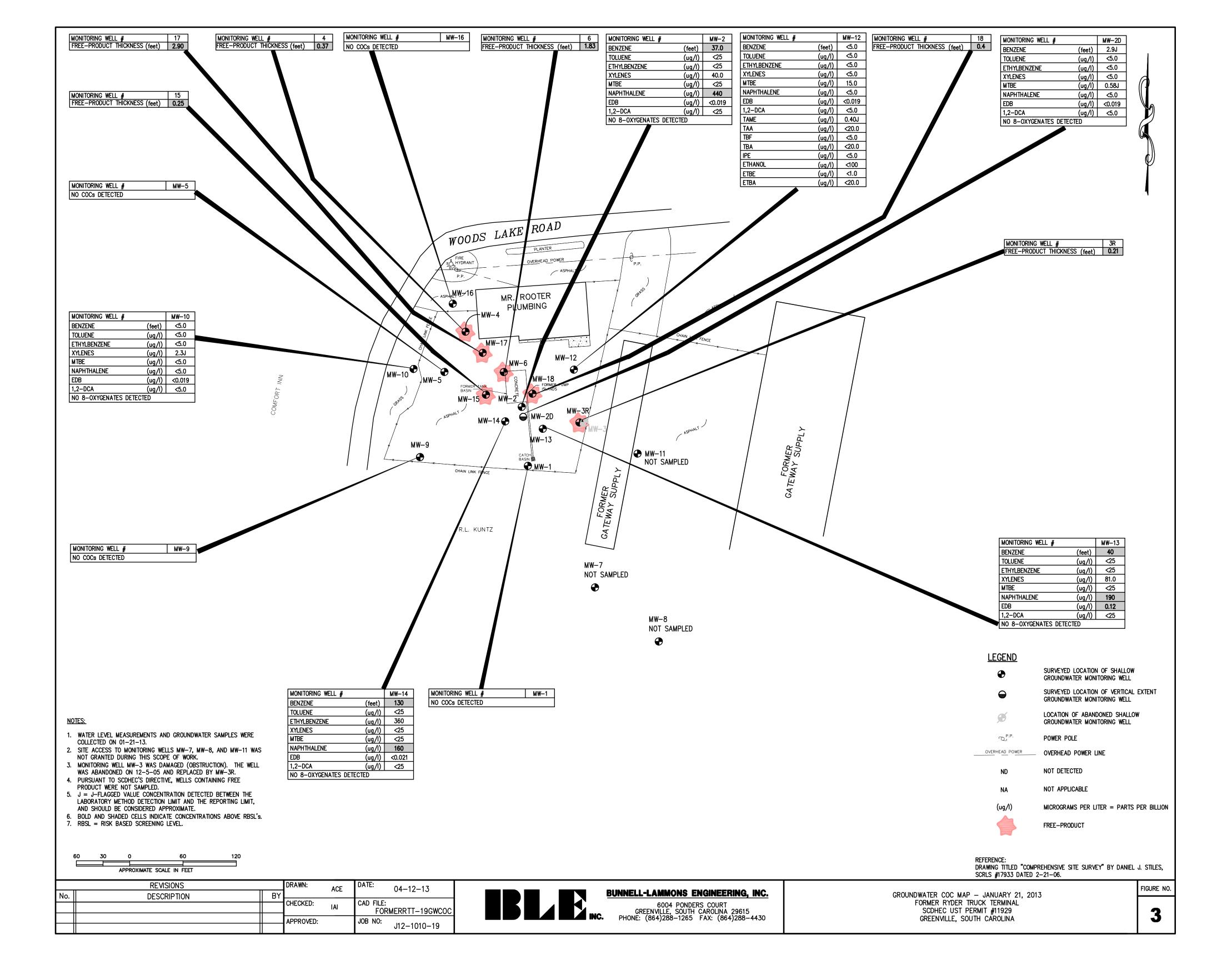
REVISIONS						
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BUNNELL-LAMMONS ENGREERING, INC.

6004 PONDERS COURT
CREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP — JANUARY 21, 2013 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA FIGURE





APPENDIX A GROUNDWATER SAMPLING PROCEDURES AND SAMPLING LOGS

APPENDIX A

MONITORING WELL PURGING AND SAMPLING PROCEDURES

Purging was conducted (if required) prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, and water temperature were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 4-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in glass vials or polypropylene containers with Teflon® lined lids and marked with identifying numbers. Samples were maintained at 4 Celsius in a refrigerated sample cooler and delivered via courier to Shealy Environmental Services in West Columbia, South Carolina for analysis.



Specific Conductivity

Water Temperature (°C)

Dissolved Oxygen (mg/l)

Turbidity (subjective: clear, slightly cloudy, cloudy)

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date	January 21, 2013					Well #	MW-1	_			
Field Personnel			Ivan A. Irizarry		_			_			
General weather	r Conditions		Partly Cloudy		_	Well Diamete	er (D)	2	inch of	31.00	feet(ft)
Ambient Air Ten	nperature (°F)		53		_	conversion fa	ctor (C): 3.143*	(D/2)^2	_		
	-				_		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tru	ıck Terminal	Site ID #:	1.	1929		for a 4 inch well	C = 0.652			
_	<u>*</u>		•			*Free Product	t Thickness		NA	ft	
		Quality Ass	surance			Total Well De	epth (TWD)		31.00	_ ft	
		-					undwater (DGW)		29.00	_ ft	
pH Sensor:	Oakton 356	30-62	Conductivity Se	ensor:	35630-32		ter Colum (LWC			2.00	ft
serial no.	o. <u>324976</u> serial no.				4976	1 Casing Volu	ume (LWC*C) =	2.00	X .17 =	0.34	 gals
pH =4.0							umes = 3 X	0.34	=	1.02	gals
pH = 7.0	7.0		Standard	1.	,413	-		(Standard Purge	e Volume)		
pH = 10.0	10.0		Standard		447			`	,		
DO Meter	YSI 60)	Standard		84						
Standard	0% cal	I	Turbidity:	1.0-1	0.0 NTU						
_		Chain of C	ustody			Total Volume	of Water Purgeo	d Before Samplin	g	1.0	gals
Ivan A.	Irizarry	1/22/13:1145	She	ealv	1/22/13:1145	*If free produc	ct is present over	r 1/8 inch, sampli	na will not be re	auired.	
	ished by	Date/Time	Receiv	,	Date/Time			, , , , , ,	3	1	
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	olume Purged (gallons) 0.5				0.5	1.0					
Time (military	me (military) 1000 1010				1010	1015					
pH (s.u)	•			5.76	5.88	6.01					

132.0

16.7

155

133.0

16.6

250

Remarks: Well dry after 1.0 gallons of water removed. Well sampled at 1020 on January 21, 2013.

130.5

16.6

10.3

0.21



Water Temperature (°C)

Dissolved Oxygen (mg/l)

Turbidity (subjective: clear, slightly cloudy, cloudy)

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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		<u></u>	<u> </u>	<u></u>	<u> </u>								
Date	January 21, 2013					Well #	MW-2						
Field Personnel	1		Ivan A. Irizarry			,		-					
General weather	r Conditions		Partly Cloudy		<u> </u>	Well Diamete	er (D)	2	inch of	30.00	feet(ft)		
Ambient Air Ten	nperature (°F)		53		<u> </u>	conversion fa							
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	11929	1	for a 4 inch well	C = 0.652					
						*Free Produc	t Thickness		NA	ft			
		Quality Ass	surance			Total Well De	∍pth (TWD)		30.00	30.00 ft			
					,	Depth to Grou	undwater (DGW)		25.9	ft			
pH Sensor:	Oakton 35	630-62	_ Conductivity Se	ensor:	35630-32	_	ater Colum (LWC			4.10	ft		
serial no.	32497	76	serial no.	3:	24976	1 Casing Volu	ume (LWC*C) =	4.10	_ X .17 =	0.70	gals		
pH =4.0	4.0		Standard	1	5,000	3 Casing Volu	umes = 3 X	0.70	<u> </u>	1.59	gals		
pH = 7.0	7.0		Standard	1	1,413	1		(Standard Purg	ge Volume)				
pH = 10.0	10.0)	Standard		447	,							
DO Meter	YSI 6	0ز	Standard		84	,							
Standard	0% ca	al	_Turbidity:	1.0-1	10.0 NTU	1							
		Chain of C	ustody			Total Volume	of Water Purged	Before Sampli	ng	8.0	gals		
Ivan A	. Irizarry	1/22/13:1145	Sh ^c	ealy	1/22/13:1145	*If free produ	ct is present over	1/8 inch, samp	ling will not be re	quired.			
Relinqı	uished by	Date/Time	Recei	ved by	Date/Time		•	-	· ·	•			
	Relinquished by Date/Time Received												
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample		
Volume Purç	Volume Purged (gallons)				0.5								
Time (militar	ime (military) 1031 1035				1035								
pH (s.u)	(s.u) 5.50 5.45				5.45								
Specific Con	pecific Conductivity 1				83.4								

20.4

863

Remarks: Well dry after 8.0 gallons of water removed. Well sampled at 1038 on January 21,2012

19.3

13.3

0.45



Remarks:

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date	January 21, 2013					Well#	MW-2D	_						
Field Personnel			Ivan A. Irizarry		_									
General weather	r Conditions		Partly Cloudy		_	Well Diameter	(D)	2	inch of	54.50	feet(ft)			
Ambient Air Ten	nperature (°F)		53		_	conversion fac	ctor (C): 3.143*(D/2)^2						
							for a 2 inch well	C = 0.163						
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	11	929		for a 4 inch well	C = 0.652						
						*Free Product	Thickness		NA	ft				
		Quality As	surance			Total Well Dep	oth (TWD)		54.50	ft				
						Depth to Grou	ndwater (DGW)		28.59	ft				
pH Sensor:	Oakton 356	630-62	_ Conductivity S	ensor:	35630-32	Length of Wat	er Colum (LWC	= TWD-DGW)		25.91	ft			
serial no.	32497	76	serial no.	324	4976	1 Casing Volu	me(LWC*C) =	25.91	X .17 =	4.40	gals			
pH =4.0	4.0		Standard	15	,000	3 Casing Volu	mes = 3 X	4.40	_ =	13.20	gals			
pH = 7.0	7.0		Standard	1,	413			(Standard Purge	e Volume)					
pH = 10.0						447								
DO Meter	YSI 6	0	Standard		84									
Standard	0% ca	al	Turbidity:	1.0-10).0 NTU									
		Chain of 0	<u>Custody</u>			Total Volume	of Water Purged	Before Sampling		10.5	gals			
Ivan A	. Irizarry	1/22/13:1145	Sh	ealy	1/22/13:1145	*If free produc	t is present over	1/8 inch, samplin	g will not be requ	iired.				
Relinqu	uished by	Date/Time	Recei	ived by	Date/Time									
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample			
Volume Purç	ged (gallons)				4.5	10.0								
Time (militai	Time (military) 1203													
pH (s.u) 6.56 6						6.02								
Specific Conductivity 123.1 145					145.5	150.0								
					19.5	19.8				1				
					10.8	12.9				1				
	•	<u> </u>	,,	1.2										
Dissolved Oxygen (mg/l) 1.2										1				

Well dry after 10.5 gallons of water removed. Well sampeld at 1225 on January 21, 2012.



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of

Date	January 21, 2013	_			Well#	MW-3R	_			
Field Personnel		Ivan A. Irizarry		_						
General weather	r Conditions	Partly Cloudy		_	Well Diamete	r (D)	2	inch of	32.40	feet(ft)
Ambient Air Ten	nperature (°F)	53		_	conversion fa	ctor (C): 3.143*(l	D/2)^2			
						for a 2 inch well				
Facility Name:	Former Ryder T	ruck Terminal Site ID #:	11	929	4	for a 4 inch well	C = 0.652			
					*Free Product				ft	
		Quality Assurance			Total Well De			32.40	ft	
					II .	undwater (DGW)		26.36	ft	_
pH Sensor:		Conductivity S	iensor:			ter Colum (LWC =			6.04	— ^{ft} .
serial no.		serial no.				ıme (LWC*C) =		_		gals
pH =4.0		Standard			3 Casing Voil	ımes = 3 X	(Standard Purge	_	3.09	gals
pH = 7.0 pH = 10.0		Standard Standard			1		(Standard Purge	e volume)		
DO Meter		Standard			1					
Standard		Turbidity:	-		1					
Gtaridard		Chain of Custody			Total Volume	of Water Purged	Before Sampling		NA	gals
		<u>Gridin di Gudicay</u>				· ·	, •			gaio
					*If free produc	ct is present over	1/8 inch, samplin	g will not be requir	ed.	
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
	ged (gallons)									
Time (milita	ry)									
pH (s.u)										
Specific Cor										
	perature (°C)									
Turbidity (su	ıbjective: clear,	slightly cloudy, cloudy)								
Dissolved O	xygen (mg/l)									
Remarks:	Well not same	oled due to 0.21 feet of fre	e-product det	ected						
Remarks.	vv cii riot sairi	DICT GUE TO U.Z I TOUT OF THE	o product det	<u> </u>						



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of

Date	January 21, 2013					Well#	MW-4				
Field Personnel		lva	an A. Irizarry		_			-			
General weather	r Conditions	P	artly Cloudy		_	Well Diamete	er (D)	2	inch of	29.50	feet(ft)
Ambient Air Ten	nperature (°F)		53		_	conversion fa	ctor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	11	1929		for a 4 inch well	C = 0.652			
						*Free Produc	t Thickness		0.37	ft	
		Quality Assura	nce			Total Well De	. , ,			ft	
							undwater (DGW)		26.31	ft	
pH Sensor:			nductivity Se	ensor:		11 -	ater Colum (LWC :		-	3.19	ft
serial no.			rial no.			11	ume (LWC*C) =		X .17 =	0.54	gals
pH =4.0			andard			3 Casing Volu	umes = 3 X	0.54	. = .	1.62	gals
pH = 7.0			andard					(Standard Purge	Volume)		
pH = 10.0			andard								
DO Meter			andard								
Standard			rbidity:								
		Chain of Custo	<u>ody</u>			Total Volume	of Water Purged	Before Sampling	-	NA	gals
						*If free produ	ct is present over	1/8 inch, sampling	g will not be require	ed.	
Relinqu	uished by	Date/Time	Receiv	ved by	Date/Time						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
	ged (gallons)										
Time (milita	ry)										
pH (s.u)											
Specific Cor	nductivity										
Water Temp	perature (°C)										
	bjective: clear, s	slightly cloudy, c	loudy)								
Turbidity (su											
Turbidity (su Dissolved O	xygen (mg/l)										
	xygen (mg/l)				•	•					•
	xygen (mg/l)										
		oled due to 0.37	feet of free	e-product det	tected.						·



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		*	•								•
Date	January 21, 2013					Well#	MW-5				
Field Personnel			Ivan A. Irizarry		Į!			_			
General weather C	2onditions		Partly Cloudy		<u>-</u>	Well Diameter	· (D)	2	inch of	29.00	feet(ft)
Ambient Air Tempe	perature (°F)		53		<u>-</u>	conversion fac	ctor (C): 3.143*(D/2)^2	-		_
	· · ·				<u>-</u>		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder True	ıck Terminal	Site ID #:	11	1929		for a 4 inch well	C = 0.652			
			-			*Free Product	Thickness		NA	ft	
		Quality Assu	urance		Į!	Total Well De	pth (TWD)		29.00	ft	
						Depth to Grou	indwater (DGW)		26.55	ft	
pH Sensor:	Oakton 3560	30-62	Conductivity Se	nsor:	35630-32	-	ter Colum (LWC	= TWD-DGW)		2.45	ft
serial no.	324976		serial no.		4976	•	me (LWC*C) =		X .17 =	0.42	 gals
pH =4.0					5,000	_	mes = 3 X	0.42	=	1.26	gals
pH = 7.0					,413	-		(Standard Purge	e Volume)		
pH = 10.0	10.0		Standard		147			-	,		
DO Meter	YSI 60)	Standard	1	84						
Standard	0% cal	1	Turbidity:	1.0-10	0.0 NTU						
_		Chain of Cu	<u></u>			Total Volume	of Water Purged	Before Sampling		0.5	gals
Ivan A. Ir	Irizarry	1/22/13:1145	She	alv	1/22/13:1145	*If free produc	et is present over	1/8 inch. samplin	g will not be require	ed.	
Relinquis		Date/Time	Receiv		Date/Time			,	9		
<u>'</u>											
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purge	Volume Purged (gallons)							1			T
	Volume Purged (gallons) 0.5 Time (military) 1147 1149										+
` `	pH (s.u) 5.27 4.98										+
					98.7					<u> </u>	+
	Water Temperature (°C) 17.9				18.0						+

839

Remarks: Well dry after 0.5 gallons of water removed. Well sampled at 1150 on January 21, 2013

15.6

1.93

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)



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Date	January 21, 2013	_				Well#	MW-6	_			
Field Personnel		Iva	n A. Irizarry								
General weather	r Conditions	Pa	rtly Cloudy			Well Diamete	er (D)	2	inch of	29.50	feet(ft)
Ambient Air Ten	nperature (°F)		53		_	conversion fa	ctor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tı	ruck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Produc	t Thickness		1.83	_ft	
		Quality Assuran	ce			Total Well De	epth (TWD)		29.50	ft	
						Depth to Gro	undwater (DGW)		27.85	ft	
pH Sensor:		Cor	nductivity Se	nsor:		Length of Wa	ater Colum (LWC	= TWD-DGW)		1.65	ft
serial no.		seri	al no.			1 Casing Vol	ume (LWC*C) =	1.65	X .17 =	0.25	gals
pH =4.0		Stai	ndard _			3 Casing Vol	umes = 3 X	0.25	_ =	0.75	gals
pH = 7.0		Stai	ndard _					(Standard Purge	· Volume)		
pH = 10.0		Stai	ndard _								
DO Meter		Stai	ndard _								
Standard		Tur	bidity:								
		Chain of Custoo	<u>dy</u>			Total Volume	of Water Purged	Before Sampling		NA	gals
Ivan A	. Irizarry	1/22/13:1145	She	aly	1/22/13:1145	*If free produ	ct is present over	1/8 inch, sampling	g will not be requi	red.	
Relinqu	uished by	Date/Time	Receiv	ed by	Date/Time						
							0.11/.1	44.14.1	=:1.17.1		
\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1./ 11. \		1	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
	ged (gallons)										
Time (militar	ry)										
pH (s.u)											
Specific Cor											
Water Temp	erature (°C)										
Turbidity (su	bjective: clear, s	slightly cloudy, cl	oudy)								
Dissolved O	xygen (mg/l)										
Remarks:	Well not sam	oled due to 1.83 t	eet of free	-product de	etected.						



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	04.0040					1	1 A) A / ¬				
	lanuary 21, 2013	<u>.</u>				Well #	MW-7	<u>-</u>			
Field Personnel			A. Irizarry		_		(5)				
General weather Co		Pa	rtly Cloudy		_	Well Diameter	. ,	2	inch of	32.80	feet(ft)
Ambient Air Tempe	erature (°F)		53		_		ctor (C): 3.143*(•			
							for a 2 inch well				
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929	41	for a 4 inch well	C = 0.652			
						*Free Product				ft	
		Quality Assurance	ce			Total Well De				ft	
						II .	indwater (DGW)			ft	
pH Sensor:		Con	ductivity S	Sensor:		11 ~	ter Colum (LWC :	,	-		ft
serial no.		seria	al no.						X .17 =		gals
pH =4.0		Star	ndard			3 Casing Volu	imes = 3 X		=		gals
pH = 7.0		Star	ndard					(Standard Purge	· Volume)		
pH = 10.0		Star	ndard								
DO Meter		Star	ndard]					
Standard		Turi									
	ard Turbidity: Chain of Custody						of Water Purged	Before Sampling	_	NA	gals
						*If froe produc	et is prosent over	1/9 inch samplin	g will not be require	od	
Relinquish	hed by	Date/Time	Rece	eived by	Date/Time	ii iiee produc	or is present over	1/0 mcn, sampiini	g will flot be require	c u.	
				-		1					
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purge	d (gallons)										
Time (military))										
pH (s.u)											
Specific Condu	uctivitv										
Water Temper											
		slightly cloudy, clo	oudy)								
Dissolved Oxy		signity bloday, on	<i>saay)</i>								
1111111111111	5 (3)					•					
Remarks:	Property acce	ss not granted. \	Vell unab	ole to be sam	pled.						
	marks: <u>Property access not granted. Well unable to be sampled.</u>										



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of

Date	January 21, 2013	,				Well#	MW-8	_			
Field Personnel		lva	n A. Irizarry		_						
General weather (Conditions	Pa	rtly Cloudy		_	Well Diameter	(D)	2	inch of	29.80	feet(ft)
Ambient Air Temp	perature (°F)		53		_	conversion fac	ctor (C): 3.143*(l	D/2)^2			
							for a 2 inch well				
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	11	929		for a 4 inch well	C = 0.652			
						*Free Product				ft	
		Quality Assuran	ce			Total Well De				ft	
							ndwater (DGW)			ft	
pH Sensor:			ductivity S	Sensor:		_	er Colum (LWC =	,			ft
serial no.			al no.						X .17 =		gals
pH =4.0			ndard			3 Casing Volu		(Ot I I D	= =		gals
pH = 7.0			ndard					(Standard Purge	e Volume)		
pH = 10.0 DO Meter			ndard ndard								
Standard			idard bidity:								
Standard		Chain of Custon		-		Total Valuma	of Water Purged	Roforo Compling		NA	aole
		Chain of Custon	<u>1À</u>			Total Volume	or water Furgeu	before Sampling	-	INA	gals
						*If free produc	t is present over	1/8 inch, samplin	g will not be require	ed.	
Relinquis	shed by	Date/Time	Rece	eived by	Date/Time						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purge	<u> </u>										
Time (military	/)										
pH (s.u)											
Specific Cond											
Water Tempe	erature (°C)										
Turbidity (sub	jective: clear, s	slightly cloudy, cl	oudy)								
Dissolved Ox	Dissolved Oxygen (mg/l)										
Remarks:	Property acce	ss not granted. \	<u>Nell unat</u>	ole to be sam	oled.						
	marks: Property access not granted. Well unable to be sampled.										



Water Temperature (°C)

Dissolved Oxygen (mg/l)

Turbidity (subjective: clear, slightly cloudy, cloudy)

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date	January 21, 2013					Well#	MW-9				
Field Personnel	_		Ivan A. Irizarry		_						
General weather	Ivan A. Ir weather Conditions		Partly Cloudy			Well Diameter	r (D)	2	inch of	30.70	feet(ft)
Ambient Air Ten	nperature (°F)		53			conversion fac	ctor (C): 3.143*([0/2)^2	_		
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tru	uck Terminal	Site ID #:	11	929		for a 4 inch well	C = 0.652			
			_			*Free Product	Thickness		NA	_ft	
		Quality As	surance			Total Well Dep	pth (TWD)		30.70	ft	
						Depth to Grou	indwater (DGW)		27.35	ft	
pH Sensor:	Oakton 356	630-62	Conductivity Se	ensor:	35630-32	Length of Wat	ter Colum (LWC =	= TWD-DGW)		3.35	ft
serial no.	32497	'6	serial no.	324	4976	1 Casing Volu	ime (LWC*C) =	3.35	X .17 =	0.57	gals
pH =4.0	4.0		Standard	15	,000	3 Casing Volu	imes = 3 X	0.57	=	2.22	gals
pH = 7.0	7.0		Standard	1,	413			(Standard Purge	Volume)		 "
pH = 10.0	10.0		Standard	4	147						
DO Meter	YSI 6	0	Standard		84						
Standard	0% ca	al	Turbidity:	1.0-10).0 NTU						
		Chain of (Custody			Total Volume	of Water Purged I	Before Sampling		1.5	gals
luon A	lrizorn.	1/22/12:11/5	Ch.	ealy	1/22/13:1145	*If froe produc	ct is present over	1/9 inch complin	a will not be requi	rod	
	,			ved bv	Date/Time	II Tree produc	is present over	i/o iricii, sampiiri	g will flot be requi	reu.	
rteiiiqt	district by	Date/Time	Necei	ved by	Date/Time						
				1.36.1	4.137.1	0 11/41	0.11/.1	40.37.1	50.37.1		0
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	17 11)			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
				1.0	1.5						
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			1133	1035	1138					
pH (s.u)	ime (military)			5.40	5.01	4.92					
Specific Con	H (s.u)			56.2	50.6	12 1	1		1	1	

18.1

931

18.4

>2,000

Remarks: Well dry after 1.5 gallons of water removed. Well sampled at 1140 on January 21, 2013.

18.3

10.9



Specific Conductivity

Water Temperature (°C)

Dissolved Oxygen (mg/l)

Turbidity (subjective: clear, slightly cloudy, cloudy)

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Date	January 21, 2013					Well#	MW-10	_			
Field Personnel			Ivan A. Irizarry		_			_			
General weathe	r Conditions		Partly Cloudy			Well Diameter	· (D)	2	inch of	30.10	feet(ft)
Ambient Air Ten	nperature (°F)		53		-	conversion fac	ctor (C): 3.143*(D/2)^2	_		
	•				-		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	11	929		for a 4 inch well	C = 0.652			
,	·					*Free Product	Thickness		NA	ft	
		Quality Ass	urance			Total Well De	pth (TWD)		30.10	- ft	
						•	indwater (DGW)		26.35	- ft	
pH Sensor:	Oakton 356	630-62	Conductivity Se	ensor:	35630-32	· '	ter Colum (LWC :	= TWD-DGW)		- 3.75	ft
serial no.	32497	76	serial no.		1976	1 Casing Volu	me (LWC*C) =	3.75	X .17 =	0.64	 gals
pH =4.0	4.0		Standard	15,	000	3 Casing Volu		0.64	=	2.00	gals
pH = 7.0	7.0		Standard	1,4	413			(Standard Purge	Volume)		_ •
pH = 10.0	10.0		Standard		47			,	•		
DO Meter	YSI 6	0	Standard	8	34						
Standard	0% ca	al	Turbidity:	1.0-10	.0 NTU						
		Chain of Cu	ustody			Total Volume	of Water Purged	Before Sampling		1.0	gals
Ivan A	. Irizarry	1/22/13:1145	She	ealy	1/22/13:1145	*If free produc	t is present over	1/8 inch, sampling	g will not be requi	red.	
Relinqu	uished by	Date/Time	Recei	ved by	Date/Time				-		
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Pur	ged (gallons)				1.0						
Time (milita				1250	1307						
nH (s II)	3 /			5.62	4 91						

130.0

18.8

18.8

Remarks: Well dry after 1.0 gallons of water removed. Well sampled at 1310 on January 21, 2013.

123.7

18.7

7.3

1.85



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					1					
Date January	<u>/ 21, 2013</u>				Well#	MW-11	-			
Field Personnel	Iva	an A. Irizarry		_						
General weather Conditio	ns P	artly Cloudy		_	Well Diameter	. ,	2	inch of	31.00	feet(ft)
Ambient Air Temperature	(°F)	53		_	conversion fac	ctor (C): 3.143*(D/2)^2			
						for a 2 inch well	C = 0.163			
Facility Name: Form	ner Ryder Truck Terminal	Site ID #:	11	1929	-11	for a 4 inch well	C = 0.652			
					*Free Product	Thickness		NA	ft	
	Quality Assurar	nce			Total Well De	, ,		31.00	ft	
					II .	indwater (DGW)			ft	
pH Sensor:		nductivity S	Sensor:		41	ter Colum (LWC :	•	-		ft
serial no.		ial no.						X .17 =		gals
pH =4.0	Sta	ındard			3 Casing Volu	mes = 3 X		=		gals
pH = 7.0		ındard					(Standard Purge	e Volume)		
pH = 10.0	Sta	ındard								
DO Meter		ındard								
Standard	Tu									
	Chain of Custo	<u>dy</u>			Total Volume	of Water Purged	Before Sampling	-	NA	gals
					*If free produc	t is present over	1/8 inch. samplin	g will not be require	ed.	
Relinquished by	Date/Time	Rece	eived by	Date/Time	1		, ,	3		
					-					
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (ga	llons)									
Time (military)										
pH (s.u)										
Specific Conductivi	ty									
Water Temperature										
Turbidity (subjective	e: clear, slightly cloudy, c	loudy)								
Dissolved Oxygen (
Jan San San San San San San San San San S				1		1	1	l.		
Remarks: Prop	erty access not granted.	Well unab	ole to be sam	<u>pled.</u>						
	•			· —						



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of

Date	January 21, 2013					Well#	MW-12				
Field Personnel	,	•	Ivan A. Irizarry					-			
General weather	r Conditions		Partly Cloudy		_	Well Diameter	(D)	2	inch of	30.90	feet(ft)
Ambient Air Ten	mperature (°F)		53			conversion fac	ctor (C): 3.143*(D/2)^2	•		
	, , ,				_		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
			_			*Free Product	Thickness		NA	ft	
		Quality As	surance			Total Well Dep	oth (TWD)		30.90	ft	
						Depth to Grou	ndwater (DGW)		27.85	ft	
pH Sensor:	Oakton 356	630-62	_Conductivity S	ensor:	35630-32	Length of Wat	er Colum (LWC	= TWD-DGW)		3.05	ft
serial no.	32497	76	serial no.	32	24976	1 Casing Volu	me (LWC*C) =	3.05	X .17 =	0.52	gals
pH =4.0	4.0		Standard	15	5,000	3 Casing Volu	mes = 3 X	0.52	=	1.56	gals
pH = 7.0	7.0 Standard 10.0 Standard YSI 60 Standard				,413			(Standard Purge	Volume)		
pH = 10.0	7.0 Standard 10.0 Standard YSI 60 Standard 0% cal Turbidit				447						
DO Meter	10.0 Standard YSI 60 Standard 0% cal Turbidity				84						
Standard	YSI 60 Standard			1.0-1	0.0 NTU						
	0% cal Turbidity Chain of Custody		<u> Sustody</u>			Total Volume	of Water Purged	Before Sampling		0.5	gals
Ivan A	Chain of Custody Ivan A. Irizarry 1/22/13:1145		Sh	ealy	1/22/13:1145	*If free produc	t is present over	1/8 inch, sampling	g will not be requir	red.	
Relinqu	uished by	Date/Time	Rece	ived by	Date/Time		•		,		
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Pur	ged (gallons)				0.5						
Time (milita				1120	1123						
pH (s.u)	3 /			4.96	4.93						
Specific Cor	nductivity			125.3	123.2						
	Water Temperature (°C)			20.3	20.4						
Turbidity (subjective: clear, slightly cloudy, cloudy)			9.75	>2,000							
Dissolved Oxygen (mg/l)			0.21	1 2,000							
2,000,000	Dissolved Oxygen (mg/l)				1			1		<u>I</u>	
Remarks:	emarks:										



Water Temperature (°C)

Dissolved Oxygen (mg/l)

Turbidity (subjective: clear, slightly cloudy, cloudy)

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Date	January 21, 2013					Well#	MW-13				
Field Personnel			Ivan A. Irizarry					_			
General weather	Conditions		Partly Cloudy			Well Diameter	r (D)	2	inch of	33.20	feet(ft)
Ambient Air Tem	perature (°F)		53			conversion fac	ctor (C): 3.143*(D/2)^2	_		
					_		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
_			_			*Free Product	Thickness		NA	ft	
		Quality As	surance			Total Well De	pth (TWD)		33.20	ft	
						Depth to Grou	ındwater (DGW)		25.8	ft	
pH Sensor:	Oakton 356	630-62	Conductivity Se	ensor:	35630-32	Length of Wa	ter Colum (LWC :	= TWD-DGW)		7.40	ft
serial no.	32497	76	serial no.	32	24976	1 Casing Volu	ıme (LWC*C) =	7.40	X .17 =	1.26	gals
pH =4.0	4.0		Standard	15	5,000	3 Casing Volu	imes = 3 X	1.26	_	4.00	gals
pH = 7.0	7.0		Standard	1	,413			(Standard Purg	e Volume)		
pH = 10.0	10.0	1	_Standard		447						
DO Meter	YSI 6	0	_Standard		84						
Standard	0% ca	al	_Turbidity:	1.0-1	0.0 NTU						
		Chain of C	Custody			Total Volume	of Water Purged	Before Sampling	9	1.5	gals
Ivan A.	Irizarry	1/22/13:1145	Sh	ealy	1/22/13:1145	*If free produc	ct is present over	1/8 inch, samplir	ng will not be requi	red.	
Relinqu	ished by	Date/Time	Recei	ved by	Date/Time	-	-				
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)				1.5							
Time (military)			1105	1109							
pH (s.u)	pH (s.u)				5.20						
Specific Con	ime (military)				81.2						

19.4

>2,000

Remarks: Wells dry after 1.5 gallons of water removed. Well sampled at 1112 on January 21, 2013.

20.3

15.2

1.10



Specific Conductivity

Water Temperature (°C)

Dissolved Oxygen (mg/l)

Turbidity (subjective: clear, slightly cloudy, cloudy)

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date	January 21, 2013					Well#	MW-14	_			
Field Personnel	_		Ivan A. Irizarry								
General weather	Conditions		Partly Cloudy			Well Diameter	(D)	2	inch of	32.00	feet(ft)
Ambient Air Tem	perature (°F)		53		_	conversion fac	ctor (C): 3.143*(D/2)^2	_		
	•				_		for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
_	ĺ		•			*Free Product	Thickness		NA	ft	
		Quality Ass	urance			Total Well Der	oth (TWD)		32.00	- ft	
		, ,				ll '	ndwater (DGW)		25.85	ft	
pH Sensor:	Oakton 356	630-62	Conductivity Se	ensor:	35630-32		er Colum (LWC	= TWD-DGW)		6.15	ft
serial no.	32497	' 6	serial no.	32	24976		me (LWC*C) =		X .17 =	1.05	gals
pH =4.0	4.0		Standard	15	5,000	3 Casing Volu		1.05	=	3.15	gals
pH = 7.0	7.0		Standard	1	,413			(Standard Purge	Volume)		
pH = 10.0	10.0		Standard		447			,	•		
DO Meter	YSI 6	0	Standard		84						
Standard	0% ca	al	Turbidity:	1.0-1	0.0 NTU						
-		Chain of C	<u>ustody</u>			Total Volume	of Water Purged	Before Sampling		1.5	gals
luon A	lrizorn/	1/22/12:11/5	She	a alv	1/22/13:1145	*If froe produc	ut in propont over	1/8 inch, samplin	a will not be requi	rod	<u></u>
					Date/Time	ii ii ee pioduc	it is present over	1/6 IIICII, Sampiini	g will flot be requi	ieu.	
Keiiriqu	Relinquished by Date/Time Rec			ved by	Date/Time						
				1 22 1	4.37.1	0 11/1	0 11/ 1	44. 37.1	54 V I		
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
_	volumo i argoa (ganono)				1.0						
Time (militar	ne (military)			1049	1053						
pH (s.u)	Ivan A. Irizarry 1/22/13:1145 Relinquished by Date/Time me Purged (gallons) e (military)			5.45	5.37						

95.5

20.9

953

106.5

20.7

8.7

1.3

Remarks: Weoll dry after 1.5 gallons of water removed. Well sampled at 1056 on January 21, 2012.



Page

of

Date	January 21, 2013	•			Well#	MW-15	-			
Field Personnel			n A. Irizarry	_						
General weather	Conditions	Pa	artly Cloudy	_	Well Diameter	r (D)	2	inch of	33.50	feet(ft)
Ambient Air Tem	perature (°F)		53	_	conversion fac	ctor (C): 3.143*(D/2)^2			
						for a 2 inch well				
Facility Name:	Former Ryder Tr	uck Terminal	Site ID #: 1	1929		for a 4 inch well	C = 0.652			
					*Free Product				ft	
		Quality Assurar	ice		Total Well De			33.50	ft	
					· ·	indwater (DGW)		26.38	ft	
pH Sensor:			nductivity Sensor:		_	ter Colum (LWC	•		7.12	ft
serial no.			ial no.		_	Ime (LWC*C) =		X .17 =	1.21	gals
pH =4.0			ndard		3 Casing Volu	imes = 3 X		_ =	5.07	gals
pH = 7.0			ndard				(Standard Purge	e Volume)		
pH = 10.0			ndard							
DO Meter _			ndard							
Standard			rbidity:							
		Chain of Custo	<u>dy</u>		Total Volume	of Water Purged	Before Sampling			gals
					*If free produc	t is present over	1/8 inch, samplin	g will not be requir	ed.	
Relinqui	shed by	Date/Time	Received by	Date/Time		·	•			
					•					
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purg	ed (gallons)									
Time (military	y)									
pH (s.u)										
Specific Cond	ductivity									
Water Tempe										
		slightly cloudy, c	oudv)							
Dissolved Ox		gy	, o a. a. y ,							
2.0001700 OX	· / 3 ~ · · · · · · · · · · /		l	1	1	1	1	1	<u> </u>	
Remarks:	Well not same	oled due to 0.25	feet of free-phase peti	oleum product	present.					
II										



Specific Conductivity

Water Temperature (°C)

Dissolved Oxygen (mg/l)

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Page

Date	January 21, 2013					Well#	MW-16	_			
Field Personnel	Ivan A.		Ivan A. Irizarry								
General weather	Conditions		Partly Cloudy			Well Diameter	(D)	2	inch of	34.40	feet(ft)
Ambient Air Tem	perature (°F)		53		•	conversion fac	ctor (C): 3.143*(l	D/2)^2	•		_
	Air Temperature (°F) 53 Pame: Former Ryder Truck Terminal Site Quality Assurance Quality Assurance Oakton 35630-62 Conduct 324976 serial no. 4.0 Standard 7.0 Standard 10.0 Standard YSI 60 Standard 0% cal Turbidity				_		for a 2 inch well	C = 0.163			
Facility Name:	Ame: Former Ryder Truck Terminal Sit Quality Assurance Quality Assurance Standard 324976 serial no. 4.0 Standard 7.0 Standard 10.0 Standard			11:	929		for a 4 inch well	C = 0.652			
_	· ·		_			*Free Product	Thickness		NA	ft	
		Quality Ass	surance			Total Well Dep	oth (TWD)		34.40	ft	
						-	ndwater (DGW)		25.49	- ft	
pH Sensor:	Oakton 356	630-62	Conductivity Se	ensor:	35630-32		er Colum (LWC =	= TWD-DGW)		8.91	ft
serial no.	32497	76	serial no.		1976	Ŭ	me (LWC*C) =	,	X .17 =	1.51	 gals
pH =4.0	4.0		Standard	15.	000	_	mes = 3 X		=	4.05	gals
pH = 7.0	7.0		Standard	1.4	413	J		(Standard Purge	Volume)		_ ~
pH = 10.0	10.0	 	-		47			(,		
DO Meter			-	8	34						
Standard			Turbidity:		.0 NTU						
_						Total Volume	of Water Purged	Before Sampling		4.5	gals
							· ·				_9
	· · · · · · · · · · · · · · · · · · ·			ealy	1/22/13:1145	*If free produc	t is present over	1/8 inch, sampling	g will not be requi	red.	
Relinqu	ished by	Date/Time	Recei	ved by	Date/Time						
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)				1.5	3.0	4.5					
	Time (military)			0846	0851	0859	0900				
μ.(u.a)	ime (military)			5.90	4.98	4.97	4.99				1

70.10

17.6

356

71.30

17.7

>2,000

71.40

17.7

>2,000

69.7

17.9

58.3

2.91

Remarks: Well sampled at 0900 on January 21, 2013.

Turbidity (subjective: clear, slightly cloudy, cloudy)



Page

of

Date	January 21, 2013	_				Well #	MW-17	_			
Field Personnel		Iv	an A. Irizarry		_						
General weather	r Conditions	P	artly Cloudy		_	Well Diamete	r (D)	2	inch of	35.00	feet(ft)
Ambient Air Ten	nperature (°F)		53		_	conversion fac	ctor (C): 3.143*(D/2)^2			
							for a 2 inch well	C = 0.163			
Facility Name:	Former Ryder T	ruck Terminal	Site ID #:	1	1929		for a 4 inch well	C = 0.652			
						*Free Product	t Thickness		2.90	ft	
		Quality Assura	nce			Total Well De	pth (TWD)		35.00	ft	
							undwater (DGW)		27.47	ft	
pH Sensor:			onductivity So	ensor:		-	ter Colum (LWC :			7.53	ft
serial no.		se	rial no.			_	ıme (LWC*C) =		X .17 =	1.28	gals
pH =4.0			andard			3 Casing Volu	ımes = 3 X	1.28	_ =	3.84	gals
pH = 7.0			andard					(Standard Purge	· Volume)		
pH = 10.0			andard								
DO Meter			andard								
Standard			rbidity:								
		Chain of Custo	<u>ody</u>			Total Volume	of Water Purged	Before Sampling		NA	gals
						*If free produc	ct is present over	1/8 inch, sampling	g will not be requi	red.	
Relinqu	uished by	Date/Time	Recei	ved by	Date/Time						
				1 22 1	4 ()()	0 11/ 1	0.11/.1	44. 37. 1	5/L \ / L		
	1.7 11 \			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
	ged (gallons)				<u> </u>						
Time (milita	ry)										
pH (s.u)											
Specific Cor											
	perature (°C)										
	ıbjective: clear,	slightly cloudy, c	loudy)		1						
Dissolved O	xygen (mg/l)										
Remarks:	Well not sam	pled due to 2.90	feet of free	e-phase petro	oleum product	present.					



Page

of

Date	January 21, 2013	-				Well#	MW-18	=						
Field Personnel		Iva	n A. Irizarry		_									
General weather Conditions Partly Cloudy					Well Diameter (D) 2 inch of 35.60 feet(ft)									
Ambient Air Temperature (°F) 53						conversion factor (C): 3.143*(D/2)^2								
							for a 2 inch well	C = 0.163						
Facility Name:	Facility Name: Former Ryder Truck Terminal Site ID #: 11929					for a 4 inch well								
							*Free Product Thicknessft							
Quality Assurance						Total Well Depth (TWD) 35.60 ft								
					Depth to Grou	ft								
pH Sensor:	Conductivity Sensor:				Length of Wa	ter Colum (LWC:	8.48	ft						
serial no.	serial no.				1 Casing Volu	ume (LWC*C) =	8.48	X .17 =	1.44	gals				
pH =4.0	Standard				3 Casing Volu	umes = 3 X	1.44	_ = _	4.17	gals				
pH = 7.0	Standard					(Standard Purge Volume)								
pH = 10.0	Standard													
DO Meter	Standard													
Standard	Turbidity:													
		Chain of Custoo	<u>ly</u>			Total Volume	of Water Purged	NA	gals					
						*If free product is present over 1/8 inch, sampling will not be required.								
Relinquished by Date/Time Received by Date/Time					ii ii ce produ	ot is present ever	170 mon, samping	y will flot be require	ou.					
				,		<u> </u>								
				Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample			
Volume Purg	ged (gallons)													
Time (milita	ry)													
pH (s.u)														
Specific Cor	nductivity													
Water Temp	perature (°C)													
	• • •	slightly cloudy, cl	oudy)											
	xygen (mg/l)	<u> </u>	- //											
	70° (3°)				-8	1	-8	1	ı		· I			
Remarks:	Well not samp	oled due to 0.40 f	eet of free-	phase petro	oleum product	present.								

APPENDIX B PURGE WATER DISPOSAL MANIFEST



5.	NON-HAZARDOUS WASTE MANIFEST Consecutor's Normal and Mailing Address		r.	gency Respons		That	4. Waste Tracking Number				
	Generator's Name and Mailing Address		Generat	oi s oile Addres	o (ii dilierent	than mailing add					
	8004 PONDERS GOURT GREENVILLE, SC 28615	į	ι, .			, ,					
	enerator's Phone: 66.4.2.6.5.1.6.5. Transporter 1 Company Name					U.S. EPA ID	Number	· ·			
	(f) (f)		2				,				
7.	Transporter 2 Company Name	9				U.S. EPA ID	Number	8.0			
8.	Designated Facility Name and Site Address VLS RECOVERY SERVICE	S'110'	Y	*		U.S. EPA ID	Number	en esta en entre sono a se	1.59		
	305 S. MAIN STREET MAULLIIN, 3C 29562	Act of State of					3) k	STRUUT Q450) (A)		
г.	acility's Phone: 354-952-5953			No.		. [(4) (4)			
ra	Waste Shipping Name and Description			10. Conta	iners	11. Total	12. Unit		* 14		
USU		11	· .	No.	Туре	Quantity	Wt./Vol.				
	1. NON HAZ NON REG KE HOTT SHE WELL WATER MAD LOKE WITH THE WAY THE WAY TO SEE THE WAY TO SEE THE WAY TO SEE THE WAY T	S. SC.				802	131				
	2 NON HAZ NON MEB Souther Green	1		2 g		40	9				
	3. NON HAR NOW BY STATE	ield.		8	1	167	(°)				
	4000HK2NDP PO Para Ryc oct once (0 cholsta)	CE ROLL			×	23	G				
	GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents marked and labeled/placarded, and are in all respects in proper condition for transpersator's/Offeror's Printed/Typed Name	sport according to ap	t are fully and oplicable inte Signature	d accurately des rnational and na	cribed above tional govern	e by the proper sh nmental regulation	nipping name	e, and are classi Month	fied, pack		
aei	BSSY L1 TE, a Sou	Samuel and the same of the sam	olgriature	A beauty	ži.	* .*	**	3	S		
	International Shipments Import to U.S.	Export from	ı U.S.	Port of ent Date leavi			· · · · · · · · · · · · · · · · · · ·				
	Transporter Acknowledgment of Receipt of Materials	e:									
	nsporter 1 Printed/Typed Name	S	ignature	desiration of the same	9-			Month	Day		
		1		A CONTRACTOR OF STREET	15te a report			The state of	112		
Tra	nsporter 2 Printed/Typed Name	S	ignature	The state of the s	10 to a copy of ferrown .			Month	Day		
Tra Tra		S	ignature	and distributions	1550 a anga w barrenson .	· .			1 al		
Trai	Discrepancy	. 1	ignature	Residue	Table & constitution .	Partial Reis	ection	Month	Day		
Trai	Discrepancy	. 1		Residue	Site annie buttere	Partial Reje	ection	Month	1 al		
Trai	Discrepancy	. 1		Residue est Reference N	umber:	Partial Reje	,	Month	Day		
Trai	Discrepancy a. Discrepancy Indication Space Quantity Ty	. 1			umber:		,	Month	Day		
Trai	Discrepancy a. Discrepancy Indication Space Quantity Ty D. Alternate Facility (or Generator) Sility's Phone:	. 1			umber:		,	Month	Day		
Trai	Discrepancy a. Discrepancy Indication Space Quantity Ty D. Alternate Facility (or Generator)	. 1			umber:		,	Month	Day		
Trai Trai 17. 17a	Discrepancy a. Discrepancy Indication Space Quantity Ty D. Alternate Facility (or Generator) Sility's Phone:	. 1			umber:		,	Month	Day		
Trai 17. 17a 17b 17c	Discrepancy a. Discrepancy Indication Space Quantity Ty D. Alternate Facility (or Generator) Sility's Phone:	pe	Manif	in Item 17a	umber:	U.S. EPA ID N	,	Month	Day		

APPENDIX C LABORATORY ANALYTICAL DATA SHEETS

SHEALY ENVIRONMENTAL SERVICES, INC.

Report of Analysis

Bunnell-Lammons Engineering, Inc.

6004 Ponders Court Greenville, SC 29615 Attention: Trevor Benton

Project Name: Former Ryder Truck

Project Number:1010-19

Lot Number: OA22055

Date Completed: 02/06/2013

Project Manager



This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

* OA22055*

SHEALY ENVIRONMENTAL SERVICES, INC.

SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329

Case Narrative Bunnell-Lammons Engineering, Inc.

Lot Number: OA22055

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

SHEALY ENVIRONMENTAL SERVICES, INC.

Sample Summary Bunnell-Lammons Engineering, Inc.

Lot Number: OA22055

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	MW-1	Aqueous	01/21/2013 1020	01/22/2013
002	MW-2	Aqueous	01/21/2013 1038	01/22/2013
003	MW-2 (DUP)	Aqueous	01/21/2013 1040	01/22/2013
004	MW-5	Aqueous	01/21/2013 1150	01/22/2013
005	MW-9	Aqueous	01/21/2013 1140	01/22/2013
006	MW-10	Aqueous	01/21/2013 1310	01/22/2013
007	MW-12	Aqueous	01/21/2013 1125	01/22/2013
800	MW-13	Aqueous	01/21/2013 1112	01/22/2013
009	MW-14	Aqueous	01/21/2013 1056	01/22/2013
010	MW-16	Aqueous	01/21/2013 0900	01/22/2013
011	MW-2D	Aqueous	01/21/2013 1225	01/22/2013
012	FB-1	Aqueous	01/21/2013 1240	01/22/2013
013	ТВ	Aqueous	01/21/2013	01/22/2013

(13 samples)

SHEALY ENVIRONMENTAL SERVICES, INC.

Executive Summary Bunnell-Lammons Engineering, Inc.

Lot Number: OA22055

Sample	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	MW-2	Aqueous	Benzene	8260B	37		ug/L	6
002	MW-2	Aqueous	Naphthalene	8260B	440		ug/L	6
002	MW-2	Aqueous	Xylenes (total)	8260B	40		ug/L	6
003	MW-2 (DUP)	Aqueous	Benzene	8260B	31		ug/L	7
003	MW-2 (DUP)	Aqueous	Naphthalene	8260B	370		ug/L	7
003	MW-2 (DUP)	Aqueous	Xylenes (total)	8260B	30		ug/L	7
006	MW-10	Aqueous	Xylenes (total)	8260B	2.3	J	ug/L	10
007	MW-12	Aqueous	tert-Amyl methyl ether (TAME)	8260B	0.40	J	ug/L	11
007	MW-12	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	15		ug/L	11
800	MW-13	Aqueous	Benzene	8260B	40		ug/L	12
800	MW-13	Aqueous	Naphthalene	8260B	190		ug/L	12
800	MW-13	Aqueous	Xylenes (total)	8260B	81		ug/L	12
800	MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.12		ug/L	12
009	MW-14	Aqueous	tert-Amyl alcohol (TAA)	8260B	110		ug/L	13
009	MW-14	Aqueous	Benzene	8260B	130		ug/L	13
009	MW-14	Aqueous	Ethylbenzene	8260B	360		ug/L	13
009	MW-14	Aqueous	Naphthalene	8260B	160		ug/L	13
011	MW-2D	Aqueous	Benzene	8260B	2.9	J	ug/L	15
011	MW-2D	Aqueous	Methyl tertiary butyl ether (MTBE)	8260B	0.58	J	ug/L	15

(19 detections)

Description: MW-1

Date Sampled:01/21/2013 1020 Date Received: 01/22/2013

Laboratory ID: OA22055-001 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method Ar 1 5030B	nalytical Method 8260B	Dilution An 1 01/3	alysis Date 31/2013 040	Analyst JAC	Prep [atch 2898		
Parameter		Nun		nalytical Method	Result	Q PO	ΩL MDL	Units	Run
tert-Amyl alcohol (TAA)			85-4	8260B	ND		20 6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-(05-8	8260B	ND		10 0.20	ug/L	1
Benzene		71-4	43-2	8260B	ND	Ę	5.0 0.20	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	Ę	5.0 1.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	Ę	5.0 0.30	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	Ę	5.0 0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND		20 1.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND	1	00 33	ug/L	1
Ethylbenzene		100-4	41-4	8260B	ND	5	5.0 1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE))	1634-0	04-4	8260B	ND	Ę	5.0 0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	Ę	5.0 1.7	ug/L	1
tert-butyl alcohol (TBA)		75-6	65-0	8260B	ND		20 6.7	ug/L	1
Toluene		108-8	38-3	8260B	ND	Ę	5.0 1.7	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	Ę	5.0 1.7	ug/L	1
Surrogate	Q	Run 1 / % Recovery	Acceptance Limits						
1,2-Dichloroethane-d4		93	70-130						
Bromofluorobenzene		94	70-130						
Toluene-d8		94	70-130						

FDR & DRCP by Microeytraction

		EDD & DDCP	by Microex	liaction				
Run Prep Method 1 8011	Analytical Method 8011	Dilution Analysis 1 01/26/2013	,	Prep Date 01/24/2013 20	Batch 045 12473			
Parameter		CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.020	0.020	ug/L	1
Surrogate	Q	Run 1 Accept % Recovery Limi						
1,1,1,2-Tetrachloroethane		107 57-1	37					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$ Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

S = MS/MSD failure Page: 5 of 33

Description: MW-2

Date Sampled:01/21/2013 1038 Date Received: 01/22/2013

Laboratory ID: OA22055-002

Matrix: Aqueous

Volatile Organic Compounds by GC/M	S
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Run Prep Method 2 5030B	Analytical Method 8260B		sis Date 2013 1707	Analyst AAC	Prep I	Date	Batch 13157			
Parameter		CA Numbe		lytical ethod	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	4	8260B	ND		100	34	ug/L	2
tert-Amyl methyl ether (TAME)		994-05-8	3	8260B	ND		50	1.0	ug/L	2
Benzene		71-43-2	2	8260B	37		25	1.0	ug/L	2
tert-Butyl formate (TBF)		762-75-4	4 :	8260B	ND		25	5.0	ug/L	2
1,2-Dichloroethane		107-06-2	2	8260B	ND		25	1.5	ug/L	2
Diisopropyl ether (IPE)		108-20-3	3	8260B	ND		25	2.0	ug/L	2
3,3-Dimethyl-1-butanol		624-95-3	3	8260B	ND		100	5.0	ug/L	2
Ethanol		64-17-5	5	8260B	ND		500	170	ug/L	2
Ethylbenzene		100-41-4	4	8260B	ND		25	8.5	ug/L	2
Ethyl-tert-butyl ether (ETBE)		637-92-3	3	8260B	ND		5.0	1.0	ug/L	2
Methyl tertiary butyl ether (MTB	E)	1634-04-4	4	8260B	ND		25	2.0	ug/L	2
Naphthalene		91-20-3	3	8260B	440		25	8.5	ug/L	2
tert-butyl alcohol (TBA)		75-65-0	0 0	8260B	ND		100	34	ug/L	2
Toluene		108-88-3	3	8260B	ND		25	8.5	ug/L	2
Xylenes (total)		1330-20-7	7	8260B	40		25	8.5	ug/L	2
Surrogate	Q	Run 2 Acc % Recovery L	ceptance _imits							
1,2-Dichloroethane-d4		97	70-130					·	·	
Bromofluorobenzene		124	70-130							
Toluene-d8		97	70-130							

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,	Prep 01/24/2	Date 013 2045	Batch 12473			
Para	meter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-0	Dibromoethane (EDB)			106-93-4	8011	ND		0.019	0.019	ug/L	1
Surr	ogate	Q	Run % Reco								
1,1,1	,2-Tetrachloroethane		117	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$ Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Date Sampled:01/21/2013 1040

Description: MW-2 (DUP)

Laboratory ID: OA22055-003 Matrix: Aqueous

Date Received: 01/22/2013 Volatile Organic Compounds by GC/MS

	olatile Organic C						
Run Prep Method Analytical Method 1 5030B 8260			Prep Date	Batch 12898			
Parameter	CAS	Analytical	Result Q	PQL	MDL	Units	Run
	Number	Method					IXUIT
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	100	34	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	50	1.0	ug/L	1
Benzene	71-43-2	8260B	31	25	1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	25	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	25	1.5	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	100	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND	500	170	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	370	25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	100	34	ug/L	1
Toluene	108-88-3	8260B	ND	25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	30	25	8.5	ug/L	1
Surrogate C	Run 1 Acceptar % Recovery Limits						
1,2-Dichloroethane-d4	96 70-13	0					
Bromofluorobenzene	101 70-13	0					
Toluene-d8	97 70-13	0					

FDR &	DRCP hy	Microextraction
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Run Pre	ep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,	Prep I 01/24/2	Date 013 2045	Batch 12473			
Paramete	er			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibro	moethane (EDB)			106-93-4	8011	ND		0.019	0.019	ug/L	1
Surrogat	te	Q	Run % Reco								
1,1,1,2-T	etrachloroethane		112	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range P = The RPD between two GC columns exceeds 40%

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$ Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

S = MS/MSD failure Page: 7 of 33

Description: MW-5

Date Sampled:01/21/2013 1150 Date Received: 01/22/2013

Laboratory ID: OA22055-004 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution A	Analysis E 1/31/2013		Prep [itch 898		
Parameter		N.	CAS	Analytical	Result	Q PQ	L MDL	Units	Run
			ımber	Method					
tert-Amyl alcohol (TAA)			5-85-4	8260B	ND		0 6.7	ug/L	1
tert-Amyl methyl ether (TAME))		1-05-8	8260B	ND		0 0.20	ug/L	1
Benzene			1-43-2	8260B	ND	5		ug/L	1
tert-Butyl formate (TBF)			2-75-4	8260B	ND	5		ug/L	1
1,2-Dichloroethane			7-06-2	8260B	ND	5		ug/L	1
Diisopropyl ether (IPE)		108	3-20-3	8260B	ND	5	0 0.40	ug/L	1
3,3-Dimethyl-1-butanol			1-95-3	8260B	ND		0 1.0	ug/L	1
Ethanol		64	4-17-5	8260B	ND	10	0 33	ug/L	1
Ethylbenzene		100)-41-4	8260B	ND	5	0 1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637	7-92-3	8260B	ND	1	0 0.20	ug/L	1
Methyl tertiary butyl ether (MT	BE)	1634	4-04-4	8260B	ND	5	0 0.40	ug/L	1
Naphthalene		91	1-20-3	8260B	ND	5	0 1.7	ug/L	1
tert-butyl alcohol (TBA)		75	5-65-0	8260B	ND	2	0 6.7	ug/L	1
Toluene		108	3-88-3	8260B	ND	5	0 1.7	ug/L	1
Xylenes (total)		1330	0-20-7	8260B	ND	5	0 1.7	ug/L	1
Surrogate	Q	Run 1 % Recover	Accepta y Limit						
1,2-Dichloroethane-d4		83	70-13	30					
Bromofluorobenzene		98	70-13	30					
Toluene-d8		92	70-13	30					

EDB & DBCP by Microextraction

Run Pr 1	ep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,	Prep l 01/25/2	Date 013 1121	Batch 12536			
Parame	ter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibre	omoethane (EDB)			106-93-4	8011	ND		0.019	0.019	ug/L	1
Surroga	ate	Q	Run % Reco								
1,1,1,2-	Tetrachloroethane	_	97	57-1	37		•	•	•	•	

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL

 $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-9

Date Sampled:01/21/2013 1140 Date Received:01/22/2013 Laboratory ID: OA22055-005 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method Analy 1 5030B	ytical Method 8260B	Dilution A	nalysis Da 1/31/2013 0	,	Prep [Batch 12898			
Parameter		Nu	CAS ımber	Analytical Method	Result	Q P	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75	5-85-4	8260B	ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994	-05-8	8260B	ND		10	0.20	ug/L	1
Benzene		71	-43-2	8260B	ND		5.0	0.20	ug/L	1
tert-Butyl formate (TBF)		762	2-75-4	8260B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107	-06-2	8260B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108	3-20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624	-95-3	8260B	ND		20	1.0	ug/L	1
Ethanol		64	l-17-5	8260B	ND	•	100	33	ug/L	1
Ethylbenzene		100)-41-4	8260B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637	'-92-3	8260B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634	1-04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene		91	-20-3	8260B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75	5-65-0	8260B	ND		20	6.7	ug/L	1
Toluene		108	3-88-3	8260B	ND		5.0	1.7	ug/L	1
Xylenes (total)		1330)-20-7	8260B	ND		5.0	1.7	ug/L	1
Surrogate	Q	Run 1 % Recovery	Acceptano y Limits	ce						
1,2-Dichloroethane-d4		94	70-130							
Bromofluorobenzene		95	70-130							
Toluene-d8		95	70-130							

EDB & DBCP by Microextraction

				DDCF	by wic	IUCX	паспо	111				
Run	Prep Method	Analytical Method	Dilution	Analysis	Date A	nalyst	Prep	Date	Batch			
1	8011	8011	1	01/26/2013	3 1934	AMY	01/25/2	013 112	1 12536			
				CAS	Analyt	ical						
Para	meter			Number	Meth	od	Result	Q	PQL	MDL	Units	Run
1,2-D	Dibromoethane (EDB)			106-93-4	8	011	ND		0.019	0.019	ug/L	1
Surro	ogate	Q	Run % Reco									
1,1,1	,2-Tetrachloroethane		104	57-1	137							

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

Description: MW-10

Date Sampled:01/21/2013 1310 Date Received: 01/22/2013

Laboratory ID: OA22055-006

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method Analytic		Dilution Analy		t Prep Date	Batch			
1 5030B	8260B	1 01/31/	2013 0505 JAC		12898			
		CA	S Analytical					
Parameter		Numbe	er <u>Method</u>	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-	4 8260B	ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-	8 8260B	ND	10	0.20	ug/L	1
Benzene		71-43-	2 8260B	ND	5.0	0.20	ug/L	1
tert-Butyl formate (TBF)		762-75-	4 8260B	ND	5.0	1.0	ug/L	1
1,2-Dichloroethane		107-06-	2 8260B	ND	5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108-20-	3 8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-	3 8260B	ND	20	1.0	ug/L	1
Ethanol		64-17-	5 8260B	ND	100	33	ug/L	1
Ethylbenzene		100-41-	4 8260B	ND	5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-	3 8260B	ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-	4 8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-20-	3 8260B	ND	5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75-65-	0 8260B	ND	20	6.7	ug/L	1
Toluene		108-88-	3 8260B	ND	5.0	1.7	ug/L	1
Xylenes (total)		1330-20-	7 8260B	2.3 J	5.0	1.7	ug/L	1
Surrogate	Q S		ceptance Limits					
1,2-Dichloroethane-d4		92	70-130					
Bromofluorobenzene		96	70-130					
Toluene-d8		98	70-130					

EDB & DBCP by Microextraction

Run P	rep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,	Prep I 01/25/2	Date 013 1121	Batch 12536			
Param	eter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Dib	romoethane (EDB)			106-93-4	8011	ND		0.019	0.019	ug/L	1
Surrog	ate										
1,1,1,2	-Tetrachloroethane		98	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-12

Date Sampled:01/21/2013 1125 Date Received: 01/22/2013

Laboratory ID: OA22055-007

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method Analytical Meth	3	,	Prep Date	Batch			
1 5030B 826	OB 1 01/31/2013	0422 JAC		12898			
	CAS	Analytical					
Parameter	Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	0.40 J	10	0.20	ug/L	1
Benzene	71-43-2	8260B	ND	5.0	0.20	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	5.0	0.30	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	1.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	33	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	15	5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	ND	5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	6.7	ug/L	1
Toluene	108-88-3	8260B	ND	5.0	1.7	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND	5.0	1.7	ug/L	1
Surrogate	Run 1 Accepta Q % Recovery Limit						
1,2-Dichloroethane-d4	93 70-1	30			•	•	•
Bromofluorobenzene	94 70-13	30					
Toluene-d8	95 70-13	30					

FDR & DRCP by Microextraction

				ODCE	Dy IVII	CIUEX	nacno	11				
Run Pre	ep Method	Analytical Method	Dilution	Analysis		Analyst	Prep		Batch			
1	8011	8011	1	01/26/201	3 2017	AMY	01/25/2	013 1121	12536			
				CAS	Analy	/tical						
Paramet	er			Number	Met	hod	Result	Q	PQL	MDL	Units	Run
1,2-Dibro	moethane (EDB)			106-93-4		8011	ND		0.019	0.019	ug/L	1
Surrogat	te	Q	Run % Reco									
1,1,1,2-T	etrachloroethane		95	57-1	137							

1,1,1,2-Tetrachloroethane

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time P = The RPD between two GC columns exceeds 40%

Q = Surrogate failure L = LCS/LCSD failure S = MS/MSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $J = Estimated result < PQL and <math>\geq MDL$

N = Recovery is out of criteria

Page: 11 of 33

Description: MW-13

Date Sampled:01/21/2013 1112 Date Received: 01/22/2013

Laboratory ID: OA22055-008

Matrix: Aqueous

Volatile Organic Compounds by G	SC/MS
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Run Prep Method Analytical Method 1 5030B 8260		,	Prep Date	Batch 12898			
Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	100	34	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	50	1.0	ug/L	1
Benzene	71-43-2	8260B	40	25	1.0	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND S	25	5.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND	25	1.5	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	25	2.0	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	100	5.0	ug/L	1
Ethanol	64-17-5	8260B	ND	500	170	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	25	2.0	ug/L	1
Naphthalene	91-20-3	8260B	190	25	8.5	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	100	34	ug/L	1
Toluene	108-88-3	8260B	ND	25	8.5	ug/L	1
Xylenes (total)	1330-20-7	8260B	81	25	8.5	ug/L	1
Surrogate	Run 1 Accepta 2 % Recovery Limit						
1,2-Dichloroethane-d4	87 70-1	30					
Bromofluorobenzene	99 70-1	30					
Toluene-d8	96 70-1	30					

FDB & DBCP by Microextraction

					by Microc	Allactic	71.1				
Run	Prep Method	Analytical Method	Dilution	Analysis	Date Analys	st Prep	Date	Batch			
1	8011	8011	1	01/26/2013	3 2038 AMY	01/25/2	2013 11	21 12536			
Dana				CAS	Analytical	Decult		DOI	MDI	Unito	Divin
Para	meter			Number	Method	Result	Q	PQL	MDL	Units	Run
1,2-0	Dibromoethane (EDB)			106-93-4	8011	0.12		0.019	0.019	ug/L	1
Surre	ogate	Q	Run % Reco								
1,1,1	,2-Tetrachloroethane		93	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-14

Date Sampled:01/21/2013 1056 Date Received: 01/22/2013

Laboratory ID: OA22055-009

Matrix: Aqueous

Volatile Organic Compounds by GC/M	S
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Run Prep Method Ana	lytical Method	Dilution Analysis	,	Prep Date	Batch			
1 5030B	8260B	5 01/31/2013	3 0653 JAC		12898			
		CAS	Analytical					
Parameter		Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	110	100	34	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	50	1.0	ug/L	1
Benzene		71-43-2	8260B	130	25	1.0	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	25	5.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	25	1.5	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	25	2.0	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	100	5.0	ug/L	1
Ethanol		64-17-5	8260B	ND	500	170	ug/L	1
Ethylbenzene		100-41-4	8260B	360	25	8.5	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	5.0	1.0	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	25	2.0	ug/L	1
Naphthalene		91-20-3	8260B	160	25	8.5	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	100	34	ug/L	1
Toluene		108-88-3	8260B	ND	25	8.5	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND	25	8.5	ug/L	1
Surrogate	Q	Run 1 Accept % Recovery Limi						
1,2-Dichloroethane-d4	_	84 70-1	30	_				
Bromofluorobenzene		97 70-1	30					
Toluene-d8		96 70-1	30					

EDB & DBCP by Microextraction

					$\mathcal{L}_{\mathcal{J}}$ inner $\mathcal{L}_{\mathcal{L}}$	min a o tre	J 1 1				
Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,		Date 2013 11	Batch 121 12536			
Parar	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-D	bromoethane (EDB)			106-93-4	8011	ND	Q	0.021	0.021	ug/L	1
Surro	gate	Q	Run % Reco								
1,1,1,	2-Tetrachloroethane		120	57-1	37						

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$ E = Quantitation of compound exceeded the calibration range H = Out of holding time P = The RPD between two GC columns exceeds 40%

Q = Surrogate failure L = LCS/LCSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

S = MS/MSD failure Page: 13 of 33

Description: MW-16

Date Sampled:01/21/2013 0900 Date Received: 01/22/2013

Laboratory ID: OA22055-010 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution And 1 01/3	alysis Date 1/2013 0526	Analyst JAC	Prep [tch 898		
		(CAS Ana	alytical					
Parameter		Num	ber M	lethod	Result	Q PQ	L MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4	8260B	ND	2	0 6.7	ug/L	1
tert-Amyl methyl ether (TAM	1E)	994-0	5-8	8260B	ND	1	0 0.20	ug/L	1
Benzene		71-4	3-2	8260B	ND	5.	0 0.20	ug/L	1
tert-Butyl formate (TBF)		762-7	5-4	8260B	ND	5.	0 1.0	ug/L	1
1,2-Dichloroethane		107-0	6-2	8260B	ND	5.	0.30	ug/L	1
Diisopropyl ether (IPE)		108-2	0-3	8260B	ND	5.	0 0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND	2	0 1.0	ug/L	1
Ethanol		64-1	7-5	8260B	ND	10	0 33	ug/L	1
Ethylbenzene		100-4	1-4	8260B	ND	5.	0 1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-9	2-3	8260B	ND	1.	0 0.20	ug/L	1
Methyl tertiary butyl ether (N	MTBE)	1634-C	4-4	8260B	ND	5.	0 0.40	ug/L	1
Naphthalene		91-2	0-3	8260B	ND	5.	0 1.7	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND	2	0 6.7	ug/L	1
Toluene		108-8	8-3	8260B	ND	5.	0 1.7	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	ND	5.	0 1.7	ug/L	1
Surrogate	Q	Run 1 A % Recovery	cceptance Limits						
1,2-Dichloroethane-d4		95	70-130						
Bromofluorobenzene		94	70-130						
Toluene-d8		94	70-130						

FDR & DRCP by Microeytraction

		EDD & DDCP	by Microex	liaction				
Run Prep Method 1 8011	Analytical Method 8011	Dilution Analysis 1 01/26/2013	,	Prep Date 01/25/2013 11	Batch 21 12536			
Parameter		CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.019	0.019	ug/L	1
Surrogate	Q	Run 1 Accept % Recovery Limi						
1,1,1,2-Tetrachloroethane		97 57-1	37					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: MW-2D

Date Sampled:01/21/2013 1225 Date Received: 01/22/2013

Laboratory ID: OA22055-011 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method Analytical M 1 5030B	Method Diluti 8260B 1	on Analysi 01/31/20		nalyst P JAC	rep D	Date	Batch 12898			
Parameter		CAS	Analyt	Dag	sult	Q	PQL	MDL	Units	Run
		Number	Meth	<u>uu</u>		Q				
tert-Amyl alcohol (TAA)		75-85-4			ND		20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	82		ND		10	0.20	ug/L	1
Benzene		71-43-2	82	50B	2.9	J	5.0	0.20	ug/L	1
tert-Butyl formate (TBF)		762-75-4	82	50B	ND		5.0	1.0	ug/L	1
1,2-Dichloroethane		107-06-2	82	50B	ND		5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108-20-3	82	50B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	82	50B	ND		20	1.0	ug/L	1
Ethanol		64-17-5	82	50B	ND		100	33	ug/L	1
Ethylbenzene		100-41-4	82	50B	ND		5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	82	50B	ND		1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	82	50B 0).58	J	5.0	0.40	ug/L	1
Naphthalene		91-20-3	82	50B	ND		5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	82	50B	ND		20	6.7	ug/L	1
Toluene		108-88-3	82	50B	ND		5.0	1.7	ug/L	1
Xylenes (total)		1330-20-7	82	50B	ND		5.0	1.7	ug/L	1
Surrogate		ın 1 Acce covery Liı	ptance mits							
1,2-Dichloroethane-d4	(96 70)-130							
Bromofluorobenzene	(95 70)-130							
Toluene-d8	(95 70)-130							

EDB & DBCP by Microextraction

					by miler con		• •				
Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,	Prep 01/25/2	Date 013 1121	Batch 12536			
Paran	neter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-Di	bromoethane (EDB)			106-93-4	8011	ND		0.019	0.019	ug/L	1
Surro	gate	Q	Run % Reco								
1,1,1,:	2-Tetrachloroethane		94	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: FB-1

Date Sampled:01/21/2013 1240 Date Received: 01/22/2013

Laboratory ID: OA22055-012

Matrix: Aqueous

Vc	olatile (Organic	Com	pounds	by	GC/MS
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Run Prep Method Ana 1 5030B	alytical Method 8260B	Dilution Analys	is Date Analyst 013 0233 JAC	Prep Date	Batch 12898			
Parameter		CAS Number		Result Q	PQL	MDL	Units	Run
		75-85-4	mounda	ND ND	20	6.7		1
tert-Amyl alcohol (TAA) tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND ND	10	0.20	ug/L	1
, , ,		71-43-2			5.0		ug/L	1
Benzene				ND		0.20	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	1.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	1.0	ug/L	1
Ethanol		64-17-5		ND	100	33	ug/L	1
Ethylbenzene		100-41-4	8260B	ND	5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND	5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	20	6.7	ug/L	1
Toluene		108-88-3	8260B	ND	5.0	1.7	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND	5.0	1.7	ug/L	1
Surrogate	Q		eptance imits					
1,2-Dichloroethane-d4		89 7	0-130					
Bromofluorobenzene		95 7	0-130					
Toluene-d8		96 7	0-130					

EDB & DBCP by Microextraction

					<u></u>						
Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Dilution Analysis Date A 1 01/26/2013 2204			Date 013 112	Batch 1 12536			
Para	ımeter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-[Dibromoethane (EDB)			106-93-4	8011	ND		0.019	0.019	ug/L	1
Surr	ogate	Q	Run 7 % Recov								
1.1.1	.2-Tetrachloroethane	_	102	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

ND = Not detected at or above the MDL

Shealy Environmental Services, Inc.

 $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: TB

Date Sampled:01/21/2013 Date Received: 01/22/2013 Laboratory ID: OA22055-013

Matrix: Aqueous

	ical Method	Dilution Analysis	,	Prep Date	Batch			
1 5030B	8260B	1 01/31/201	3 0255 JAC		12898			
		CAS	Analytical					
Parameter		Number	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND	20	6.7	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.20	ug/L	1
Benzene		71-43-2	8260B	ND	5.0	0.20	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	1.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	5.0	0.30	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	1.0	ug/L	1
Ethanol		64-17-5	8260B	ND	100	33	ug/L	1
Ethylbenzene		100-41-4	8260B	ND	5.0	1.7	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.20	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND	5.0	1.7	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	20	6.7	ug/L	1
Toluene		108-88-3	8260B	ND	5.0	1.7	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND	5.0	1.7	ug/L	1
Surrogate	Q	Run 1 Accept % Recovery Limi						
1,2-Dichloroethane-d4		90 70-1	30				•	
Bromofluorobenzene		93 70-1	30					
Toluene-d8		95 70-1	30					

EDB & DBCP by Microextraction

Run 1	Prep Method 8011	Analytical Method 8011	Dilution 1	Analysis 01/26/2013	,	Prep 01/25/2	Date 013 1121	Batch 12536			
Para	ımeter			CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
1,2-[Dibromoethane (EDB)			106-93-4	8011	ND		0.020	0.020	ug/L	1
Surr	rogate	Q	Run ' % Recov								
1.1.1	.2-Tetrachloroethane		104	57-1	37						

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

Q = Surrogate failure L = LCS/LCSD failure

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

 $\label{eq:J} J = Estimated \ result < PQL \ and \ge MDL$

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: 0Q12898-001 Batch: 12898

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	6.7	ug/L	01/31/2013 0201
tert-Amyl methyl ether (TAME)	ND	1	10	0.20	ug/L	01/31/2013 0201
Benzene	ND	1	5.0	0.20	ug/L	01/31/2013 0201
tert-Butyl formate (TBF)	ND	1	5.0	1.0	ug/L	01/31/2013 0201
1,2-Dichloroethane	ND	1	5.0	0.30	ug/L	01/31/2013 0201
Diisopropyl ether (IPE)	ND	1	5.0	0.40	ug/L	01/31/2013 0201
3,3-Dimethyl-1-butanol	ND	1	20	1.0	ug/L	01/31/2013 0201
Ethanol	ND	1	100	33	ug/L	01/31/2013 0201
Ethylbenzene	ND	1	5.0	1.7	ug/L	01/31/2013 0201
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	0.20	ug/L	01/31/2013 0201
Methyl tertiary butyl ether (MTBE)	ND	1	5.0	0.40	ug/L	01/31/2013 0201
Naphthalene	ND	1	5.0	1.7	ug/L	01/31/2013 0201
tert-butyl alcohol (TBA)	ND	1	20	6.7	ug/L	01/31/2013 0201
Toluene	ND	1	5.0	1.7	ug/L	01/31/2013 0201
Xylenes (total)	ND	1	5.0	1.7	ug/L	01/31/2013 0201
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	95	70-130				
1,2-Dichloroethane-d4	88	70-130				
Toluene-d8	97	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ12898-002

Batch: 12898

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1000	1	103	70-130	01/31/2013 0033
tert-Amyl methyl ether (TAME)	50	54	1	108	70-130	01/31/2013 0033
Benzene	50	51	1	101	70-130	01/31/2013 0033
tert-Butyl formate (TBF)	250	280	1	110	70-130	01/31/2013 0033
1,2-Dichloroethane	50	46	1	92	70-130	01/31/2013 0033
Diisopropyl ether (IPE)	50	55	1	110	70-130	01/31/2013 0033
3,3-Dimethyl-1-butanol	1000	1000	1	102	70-130	01/31/2013 0033
Ethanol	5000	4700	1	94	70-130	01/31/2013 0033
Ethylbenzene	50	52	1	104	70-130	01/31/2013 0033
Ethyl-tert-butyl ether (ETBE)	50	54	1	109	70-130	01/31/2013 0033
Methyl tertiary butyl ether (MTBE)	50	55	1	111	70-130	01/31/2013 0033
Naphthalene	50	51	1	101	70-130	01/31/2013 0033
tert-butyl alcohol (TBA)	1000	960	1	96	70-130	01/31/2013 0033
Toluene	50	50	1	99	70-130	01/31/2013 0033
Xylenes (total)	100	110	1	107	70-130	01/31/2013 0033
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	97	70-130	·			
1,2-Dichloroethane-d4	88	70-130				
Toluene-d8	99	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - MS

Sample ID: OA22055-008MS

Batch: 12898

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	ND	5000	5000		5	101	70-130	01/31/2013 0820
tert-Amyl methyl ether (TAME)	ND	250	270		5	109	70-130	01/31/2013 0820
Benzene	40	250	300		5	103	70-130	01/31/2013 0820
tert-Butyl formate (TBF)	ND	1300	270	Ν	5	22	70-130	01/31/2013 0820
1,2-Dichloroethane	ND	250	220		5	88	70-130	01/31/2013 0820
Diisopropyl ether (IPE)	ND	250	280		5	114	70-130	01/31/2013 0820
3,3-Dimethyl-1-butanol	ND	5000	5200		5	104	70-130	01/31/2013 0820
Ethanol	ND	25000	26000		5	104	70-130	01/31/2013 0820
Ethylbenzene	ND	250	270		5	106	70-130	01/31/2013 0820
Ethyl-tert-butyl ether (ETBE)	ND	250	270		5	110	70-130	01/31/2013 0820
Methyl tertiary butyl ether (MTBE)	ND	250	270		5	110	70-130	01/31/2013 0820
Naphthalene	190	250	460		5	109	70-130	01/31/2013 0820
tert-butyl alcohol (TBA)	ND	5000	5500		5	109	70-130	01/31/2013 0820
Toluene	ND	250	250		5	101	70-130	01/31/2013 0820
Xylenes (total)	81	500	600		5	104	70-130	01/31/2013 0820
Surrogate	Q % Re	Acc	eptance Limit					
1,2-Dichloroethane-d4	82	-	70-130					
Bromofluorobenzene	96	-	70-130					
Toluene-d8	96	7	70-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - MSD

Sample ID: OA22055-008MD

Batch: 12898

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPI	
tert-Amyl alcohol (TAA)	ND	5000	5000		5	100	0.85	70-130	20	01/31/2013 0841
tert-Amyl methyl ether (TAME)	ND	250	270		5	107	1.8	70-130	20	01/31/2013 0841
Benzene	40	250	300		5	103	0.44	70-130	20	01/31/2013 0841
tert-Butyl formate (TBF)	ND	1300	230	Ν	5	19	16	70-130	20	01/31/2013 0841
1,2-Dichloroethane	ND	250	210		5	86	2.9	70-130	20	01/31/2013 0841
Diisopropyl ether (IPE)	ND	250	280		5	113	0.84	70-130	20	01/31/2013 0841
3,3-Dimethyl-1-butanol	ND	5000	5200		5	104	0.68	70-130	20	01/31/2013 0841
Ethanol	ND	25000	23000		5	92	12	70-130	20	01/31/2013 0841
Ethylbenzene	ND	250	260		5	105	1.0	70-130	20	01/31/2013 0841
Ethyl-tert-butyl ether (ETBE)	ND	250	270		5	108	1.7	70-130	20	01/31/2013 0841
Methyl tertiary butyl ether (MTBE)	ND	250	270		5	107	2.8	70-130	20	01/31/2013 0841
Naphthalene	190	250	460		5	108	0.47	70-130	20	01/31/2013 0841
tert-butyl alcohol (TBA)	ND	5000	5300		5	106	2.8	70-130	20	01/31/2013 0841
Toluene	ND	250	250		5	102	0.41	70-130	20	01/31/2013 0841
Xylenes (total)	81	500	600		5	104	0.47	70-130	20	01/31/2013 0841
Surrogate	Q % Re	С	eptance Limit							
1,2-Dichloroethane-d4	81	7	70-130							
Bromofluorobenzene	95	7	70-130							
Toluene-d8	97	7	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - MB

Sample ID: 0Q13157-001 Batch: 13157

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	6.7	ug/L	02/03/2013 1503
tert-Amyl methyl ether (TAME)	ND	1	10	0.20	ug/L	02/03/2013 1503
Benzene	ND	1	5.0	0.20	ug/L	02/03/2013 1503
tert-Butyl formate (TBF)	ND	1	5.0	1.0	ug/L	02/03/2013 1503
1,2-Dichloroethane	ND	1	5.0	0.30	ug/L	02/03/2013 1503
Diisopropyl ether (IPE)	ND	1	5.0	0.40	ug/L	02/03/2013 1503
3,3-Dimethyl-1-butanol	ND	1	20	1.0	ug/L	02/03/2013 1503
Ethanol	ND	1	100	33	ug/L	02/03/2013 1503
Ethylbenzene	ND	1	5.0	1.7	ug/L	02/03/2013 1503
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	0.20	ug/L	02/03/2013 1503
Methyl tertiary butyl ether (MTBE)	ND	1	5.0	0.40	ug/L	02/03/2013 1503
Naphthalene	ND	1	5.0	1.7	ug/L	02/03/2013 1503
tert-butyl alcohol (TBA)	ND	1	20	6.7	ug/L	02/03/2013 1503
Toluene	ND	1	5.0	1.7	ug/L	02/03/2013 1503
Xylenes (total)	ND	1	5.0	1.7	ug/L	02/03/2013 1503
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	109	70-130				
1,2-Dichloroethane-d4	95	70-130				
Toluene-d8	92	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: OQ13157-002

Batch: 13157 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Spike % Rec Amount Result (ug/L) Q % Rec Limit Parameter (ug/L) Dil Analysis Date tert-Amyl alcohol (TAA) 1000 870 1 87 70-130 02/03/2013 1338 tert-Amyl methyl ether (TAME) 1 95 50 47 70-130 02/03/2013 1338 Benzene 50 45 1 90 70-130 02/03/2013 1338 tert-Butyl formate (TBF) 250 230 1 91 70-130 02/03/2013 1338 1,2-Dichloroethane 50 40 1 81 70-130 02/03/2013 1338 Diisopropyl ether (IPE) 92 50 46 70-130 02/03/2013 1338 3,3-Dimethyl-1-butanol 1000 800 1 80 70-130 02/03/2013 1338 5000 5200 104 Ethanol 1 70-130 02/03/2013 1338 Ethylbenzene 50 52 104 70-130 02/03/2013 1338 Ethyl-tert-butyl ether (ETBE) 50 46 92 70-130 02/03/2013 1338 Methyl tertiary butyl ether (MTBE) 50 45 90 70-130 02/03/2013 1338 50 57 Naphthalene 113 70-130 02/03/2013 1338 tert-butyl alcohol (TBA) 1000 870 87 70-130 02/03/2013 1338 Toluene 50 47 1 95 70-130 02/03/2013 1338 Xylenes (total) 100 110 109 70-130 02/03/2013 1338 Acceptance Limit Surrogate Q % Rec Bromofluorobenzene 111 70-130 1,2-Dichloroethane-d4 93 70-130

70-130

PQL = Practical quantitation limit

Toluene-d8

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

96

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: OQ13157-003

Batch: 13157

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	870		1	87	0.11	70-130	20	02/03/2013 1359
tert-Amyl methyl ether (TAME)	50	48		1	95	0.69	70-130	20	02/03/2013 1359
Benzene	50	47		1	93	3.1	70-130	20	02/03/2013 1359
tert-Butyl formate (TBF)	250	230		1	92	1.2	70-130	20	02/03/2013 1359
1,2-Dichloroethane	50	41		1	82	1.0	70-130	20	02/03/2013 1359
Diisopropyl ether (IPE)	50	47		1	93	1.3	70-130	20	02/03/2013 1359
3,3-Dimethyl-1-butanol	1000	800		1	80	0.76	70-130	20	02/03/2013 1359
Ethanol	5000	5500		1	110	5.9	70-130	20	02/03/2013 1359
Ethylbenzene	50	54		1	107	2.9	70-130	20	02/03/2013 1359
Ethyl-tert-butyl ether (ETBE)	50	48		1	96	4.5	70-130	20	02/03/2013 1359
Methyl tertiary butyl ether (MTBE)	50	46		1	91	0.84	70-130	20	02/03/2013 1359
Naphthalene	50	57		1	114	0.80	70-130	20	02/03/2013 1359
tert-butyl alcohol (TBA)	1000	870		1	87	0.35	70-130	20	02/03/2013 1359
Toluene	50	48		1	97	2.1	70-130	20	02/03/2013 1359
Xylenes (total)	100	110		1	113	3.2	70-130	20	02/03/2013 1359
Surrogate	Q % Red	: Ac	cceptance Limit						
Bromofluorobenzene	111		70-130			·			
1,2-Dichloroethane-d4	96		70-130						
Toluene-d8	96		70-130						

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MB

Sample ID: OQ12473-001

Batch: 12473

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 01/24/2013 2045

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.020	ug/L	01/26/2013 0855
Surrogate	Q % Rec	Acceptance Limit				
1.1.1.2-Tetrachloroethane	105	57-137	_	_	•	

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - LCS

Sample ID: OQ12473-002

Batch: 12473

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 01/24/2013 2045

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29	1	115	60-140	01/26/2013 0917
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	108	57-137				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MS

Sample ID: OA22055-001MS

Batch: 12473

Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

Prep Date: 01/24/2013 2045

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.27		1	111	60-140	01/26/2013 1601
Surrogate	Q % Re		ptance imit					
1,1,1,2-Tetrachloroethane	106	57	7-137					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MSD

Sample ID: OA22055-001MD

Batch: 12473

Matrix: Aqueous Prep Method: 8011

Prep Date: 01/24/2013 2045

Analytical Method: 8011

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPI Limit	
1,2-Dibromoethane (EDB)	ND	0.24	0.27		1	113	1.4	60-140	20	01/26/2013 1622
Surrogate	Q % Re		ptance imit							
1,1,1,2-Tetrachloroethane	111	57	' -137							_

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MB

Sample ID: OQ12536-001

Batch: 12536 Analytical Method: 8011 Matrix: Aqueous Prep Method: 8011

Prep Date: 01/25/2013 1121

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.020	ug/L	01/26/2013 1748
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	103	57-137				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - LCS

Sample ID: OQ12536-002

Batch: 12536

Matrix: Aqueous Prep Method: 8011

Prep Date: 01/25/2013 1121

Analytical Method: 8011

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.29		1	118	60-140	01/26/2013 1809
Surrogate	Q % Rec	Acceptano Limit	ce				
1,1,1,2-Tetrachloroethane	105	57-137					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MS

Sample ID: OA22055-004MS

Batch: 12536

Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

Prep Date: 01/25/2013 1121

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.25		1	106	60-140	01/26/2013 1852
Surrogate	Q % Re		ptance imit					
1,1,1,2-Tetrachloroethane	100	57	7-137					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MSD

Sample ID: OA22055-004MD

Batch: 12536

Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

Prep Date: 01/25/2013 1121

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPI	
1,2-Dibromoethane (EDB)	ND	0.24	0.25		1	106	0.079	60-140	20	01/26/2013 1913
Surrogate	Q % Red		ptance imit							
1,1,1,2-Tetrachloroethane	101	57	7 -137							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Chain of Custody Record

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, South Carolina 29172 Telephone No. (803) 791-9111

Number 27284

		MM	www.shealylab.com		
Client.	Report to Contact		Sampler (Printed Name)		Quote No.
4	Trevar Realful	(m)	Traw A.	Ivinamy	
t	×	ail	Waybill No.)	Page
7 Condons C.	864 \$ 82 1265 / The	Theyour Bleconf. com			l of N
State Zip Code					Number of Containers
Greensille SC 29415	1. Unpres. 4. HNO3 7. NaOH	НО			Bottle (See Instructions on back)
	2. NaOH/ZnA 5. HCL	G c			Preservative
Ryder Truck	3. H2SO4 6. Na Thio.	ભાર			Lot No.
	q	si	1198		Stacko.
Sample ID / Description (Containers for each sample may be combined on one line)	Time G=GW DW WW	Other Other Analys	503		Remarks / Cooler ID
1/2/1 1- will	7 6 620	7	2		
	1038				
(000)	1040				
S- mm	1150				
ww - 9	1140				
0) - 10m	(310				
Mw -12	1125				
mw - (3	(112				
p) - ww	1050				
7) - mm	400 0 9	-)	->		
Turn Argund Time Required (Prior lab approval required for expedited TAT)	xpedited TAT) Sample Disposal	O	QC Requirements (Specify) Poss	Possible Hazard Identification	
G Standard Rush (Please Specify)	CI Return to Client	□ Æposal by Lab	ONO	□Non-Hazard □Flammable □Skin limbant	t CPoison OUnknown
1. Relinquished by / Sampler	Dale 1/2	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1. Received by	Date/ 1/13	Time
1 50	Date	Time 2	2. Received by	Date	Time
3. Relinquished by	Date	Time 3	3. Received by	Date	Time
4. Relinquished by Arrox	936e /12	Time 78 4	4. Laboratory Received by	1/2 2/3	JIMBS K
Note: All samples are retained for six weeks from receipt unless other arrangements are made.	d for six weeks from r jements are made.		LAB USE ONLY Received on Ice (Check) (1765 A No CI top Pack	Pack Recept Temp. 1-0 °C	Temp. Blank \Box Y / \Box N

Bottle (See Instructions on back) □ Unknown Remarks / Cooler ID OY/ON Number of Containers Preservative Lot No. 5 Temp. Blank □Poison 27283 Quote No. d Time Time Time Page DNon-Hazard DRammable DSkin Irritani ô Number ε Possible Hazard Identification Receipt Temp. Date ☐ Ice Pack Telephone No. (803) 791-9700 Fax No. (803) 791-9111 O Yés O No Shealy Environmental Services, Inc. Sampler (Printed Name) West Columbia, South Carolina 29172 QC Requirements (Specify) 106 Vantage Point Drive 3748 Received on Ice (Chack) Waybill No. www.sheelylab.com Received by 4. Laboratory Re 3. Received by LAB USE ONL' Received by 408 BOH 82000 120cl Treyord Hecoup.co R-Disposal by Lab Analysis Time // // Note: All samples are retained for six weeks from receipt Other 7 7 Time Ime 7. NAOH Treyor Dewhow Telephone No. / Fax No. / Email Matrix WWW. ☐ Return to Clent Sample Disposal will unless other arrangements are made. 6. Na Thio. 4. HN03 BC9 2881265 5. HC! > Date Report to Contact Preservative 5 G=Grab 2. NaOH/ZnA Avound Time Required (Prior lab approval required for expedited TAT) 1225 1. Unpres. 12.40 3. H2SO4 Time Chain of Custody Record 12 13 12113 Date 29615 Zip Code Rush (Please Specify) (Containers for each sample may be Sample ID / Description Relinquished by / Sample combined on one line) F 400 E 1010-19 2. Relinquished by 3. Relinquished by 4. Relinquished by 3 recesso ! (Le Project Number 2-مُحمود Project Name Standard ¢ SHEALS 4004 J. FB

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc. Page 1 of 1 Document Number: F-AD-016 Replaces Date: 05/06/11 Revision Number 9 Sample Receipt Checklist (SRC) Lot #: 0A 2205 Cooler Inspected by/date: 6 CL Client: Means of receipt: Client ☐ UPS FedEx Airborne Exp Other No 1. Were custody seals present on the cooler? Yes 2. If custody scals were present, were they intact and unbroken? No Cooler ID/temperature upon receipt /- 4 Method: Temperature Blank Against Bottles Method of coolant: Wet Ice Blue Ice Dry Ice None If response is No (or Yes for 14, 15, 16), an explanation/resolution must be provided. If temperature of any cooler exceeded 6.0°C, was Project Manager notified? NAP Yes No 🗌 PM notified by SRC, phone, note (circle one), other: coolers received via commercial courier, PMs are to be notified immediately. Yes No NA Is the commercial courier's packing slip attached to this form? Yes No Were proper custody procedures (relinquished/received) followed? Yes No NA V 5a Were samples relinquished by client to commercial courier? Yes I No Were sample IDs listed? Yes No Was collection date & time listed? Yes No 8. Were tests to be performed listed on the COC? Yes No Did all samples arrive in the proper containers for each test? Yes No 10. Did all container label information (ID, date, time) agree with COC? Yes No 11. Did all containers arrive in good condition (unbroken, lids on, etc.)? Yes No Was adequate sample volume available? 13. Were all samples received within 1/2 the holding time or 48 hours, whichever Yes -No comes first? Yes No Were any samples containers missing? Yes No Were there any excess samples not listed on COC? Were bubbles present >"pea-size" (1/2" or 6mm in diameter) in any VOA Yes No C NA vials? Yes Were all metals/O&G/HEM/nutrient samples received at a pH of <2? No NA. Yes No Were all cyanide and/or sulfide samples received at a pH >12? 19. Were all applicable NH3/TKN/cyanide/phenol/BNA/pest/PCB/herb Yes _ No (<0.2mg/L) samples free of residual chlorine? Yes No Were collection temperatures documented on the COC for NC samples? Were client remarks/requests (i.e. requested dilutions, MS/MSD designations. Yes No etc...) correctly transcribed from the COC into the comment section in LIMS? Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) Sample(s) were received incorrectly preserved and were adjusted accordingly in sample receiving with (H2SO4,HNO3,HCl,NaOH) with the SR # (number) Sample(s) were received with bubbles >6 mm in diameter. Sample(s) were received with TRC >0.2 mg/L for NH3/ TKN/cyanide/BNA/pest/PCB/herb. Corrective Action taken, if necessary: Was client notified: Yes No Did client respond: Yes No SESI employee: Date of response: Comments:

APPENDIX D CONTRACTOR CHECKLIST

Title: Programmatic QAPP Revision Number: 1 Revision Date: January 2011 Page: 188 of 195

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	\checkmark		
2	Is UST Owner/Operator name, address, & phone number provided?			
3	Is name, address, & phone number of current property owner provided?			
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	√		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			√
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	V		
7	Has the facility history been summarized?			
8	Has the regional geology and hydrogeology been described?			
9	Are the receptor survey results provided as required?			
10	Has current use of the site and adjacent land been described?			
11	Has the site-specific geology and hydrogeology been described?			
12	Has the primary soil type been described?			
13	Have field screening results been described?			
14	Has a description of the soil sample collection and preservation been detailed?			V
15	Has the field screening methodology and procedure been detailed?			
16	Has the monitoring well installation and development dates been provided?			V
17	Has the method of well development been detailed?			
18	Has justification been provided for the locations of the monitoring wells?			
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			V
20	Has the groundwater sampling methodology been detailed?	\checkmark		
21	Have the groundwater sampling dates and groundwater measurements been provided?	V		
22	Has the purging methodology been detailed?	\checkmark		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	V		
24	If free-product is present, has the thickness been provided?			
25	Does the report include a brief discussion of the assessment done and the results?	V		
26	Does the report include a brief discussion of the aquifer evaluation and results?			V
27	Does the report include a brief discussion of the fate & transport models used?			V

Title: Programmatic QAPP Revision Number: 1 Revision Date: January 2011 Page: 189 of 195

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			\checkmark
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			V
31	Have recommendations for further action been provided and explained?	\checkmark		
32	Has the soil analytical data for the site been provided in tabular format?			V
33	Has the potentiometric data for the site been provided in tabular format?	V		
34	Has the current and historical laboratory data been provided in tabular format?	V		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			V
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			V
37	Has the topographic map been provided with all required elements? (Figure 1)	V		
38	Has the site base map been provided with all required elements? (Figure 2)			
39	Have the CoC site maps been provided?			
40	Has the site potentiometric map been provided?			
41	Have the geologic cross-sections been provided?			
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			√
43	Has the site survey been provided and include all necessary elements?			1
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements?	√		
45	Is the laboratory performing the analyses properly certified?			
46	Has the tax map been included with all necessary elements?			
47	Have the soil boring/field screening logs been provided?			
48	Have the well completion logs and SCDHEC Form 1903 been provided?			\
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			V
50	Have the disposal manifests been provided?	$\sqrt{}$		
51	Has a copy of the local zoning regulations been provided?			$\sqrt{}$
52	Has all fate and transport modeling been provided?			
53	Have copies of all access agreements obtained by the contractor been provided?			V
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	V		



Briney, Stephanie M. <bri>

Strineysm@dhec.sc.gov>

UST Permit # 11929 Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC 29607

1 message

Briney, Stephanie M. <bri>dhec.sc.gov> To: ngleason@downeybrand.com

Wed, May 22, 2013 at 1:45 PM

Nicole.

In accordance with your request February 25, 2013 I have enclosed a copy of the monitoring report submitted by Bunnell-Lammons Engineering, Inc on May 2, 2013. The next scope of work is Aggressive Fluid Vapor Recovery (AFVR) events to remove free product at the site. Please call me if you have any questions.

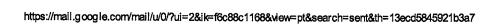
Please note that we will be moving to a new office building the first week of June.

Stephanie Briney Corrective Action Section **UST Management Division** Bureau of Land and Waste Management

PH: (803) 896-6323 Fax: (803) 896-6245



11929 Monitoring Report received 5-2-13.pdf 6850K





Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

US , The location

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602



Re:

Aggressive Fluid and Vapor Recovery Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit # 11929; CA# 46042 Release #2 reported February 25, 1997 Monitoring Report received May 2, 2013 Greenville County

Dear Ms. Mumbauer:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor. The next appropriate scope of work is to continue aggressive fluid and vapor recovery (AFVR) events to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC). Please have your contractor conduct four events on MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. The first event should be conducted on MW-4 and MW-17. The second event should be conducted on MW-6 and MW-17. The third event should be conducted on MW-6, MW-15, and MW-18. The fourth event should be conducted on MW-3R and MW-18. The events should be spaced a minimum of fifteen days apart to allow equilibrium conditions to reestablish, and must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP). A copy of the QAPP is available at http://www.scdhec.gov/environment/lwm/usthome/Qapp.htm.

Cost Agreement # 46042 has been approved in the amount shown on the enclosed cost agreement form for the AFVR events. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

An AFVR report and invoice must be submitted to the Division within <u>90</u> days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

The Division grants pre-approval for transportation of free-phase product and petroleum-contaminated groundwater from the referenced facility to a permitted treatment facility for disposal. The transport and disposal must be conducted in accordance with the QAPP.

On all correspondence concerning this facility, please reference UST Permit #11929. If there are any questions concerning this project, feel free to contact me by telephone at (803) 896-6323, by fax at (803) 896-6245, or by e-mail at brineysm@dhec.sc.gov.

Sincerely,

Stephanie Briney, Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc)

Technical File (w/enc)

Approved Cost Agreement 46042

Facility: 11929 FORMER RYDER TERMINAL

BRINEYSM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
04 MOB/DEMOB				
	A EQUIPMENT B PERSONNEL	4,0000 4,000	575.00 290.00	2,300.00 1,160.00
17 DISPOSAL				
	A WASTEWATER	10,000.0000	0.80	8,000.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PCT PERCENT	0.1500	24,580.00	3,687.00
23 EFR				
	A 8 HOUR EVENT	4.0000	3,000.00	12,000.00
	C OFF GAS TREATMENT	32.0000	35.00	1,120.00
		Total Amo	unt	28,267.00



REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

Former Ryder Terminal 10 Woods Lake Drive Greenville, South Carolina UST Permit # 11929; Cost Agreement # 46042

Prepared For:

Ms. Ingrid Auten c/o Ms. Annie Mumbauer BB&T Wealth Management Post Office Box 408 Greenville, South Carolina 29602

Prepared By:

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-0010

September 12, 2013

BLE Project Number J13-1010-20



September 12, 2013

South Carolina Department of Health and Environmental Control Bureau of Underground Storage Tank Management 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Ms. Stephanie Briney

Hydrogeologist

Subject: Report of Multiple Aggressive Fluid Vapor Recovery Events

Former Ryder Terminal 10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929; CA #46042 BLE Project No. J13-1010-20

Dear Ms. Briney:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed a series of four Aggressive Fluid Vapor Recovery (AFVR) events at the subject site. This scope of work was performed in response to South Carolina Department of Health and Environmental Control's (SCDHEC) directive dated May 28, 2013. The results of our activities are provided herein.

Sincerely,

BUNNELL-LAMMONS ENGINEERI

Trevor J. Benton, P.O. Project Hydrogeologist

Registered, South Carolina No. 2395

Thomas L. Lammons, P.G

Principal Hydrogeologist
Registered, South Carolina No. 893

cc: Ms. Ingrid Auten, c/o Annie Mumbauer, BB&T Wealth Management, PO Box 408, Greenville, SC 29602



PROJECT INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four underground storage tanks (USTs) were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments (ESAs) of the site. The Phase II ESA detected soil and groundwater contamination from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments were performed in 2003/2004 and from 2006 to 2012 by BLE to define the extent of petroleum contamination and to remove free-phase petroleum product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

During the January 2013 sampling event, free-phase petroleum product free-phase petroleum product was detected in monitoring wells MW-3R, MW-4, MW-6, MW-15, MW-17, and MW-18. In an effort to remove free-phase product from these wells, the SCDHEC has directed a series of four AFVR events be performed at the site. The results of these AFVR events are provided herein.

AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

On June 12, 2013, July 11, 2013, August 1, 2013, and August 12, 2013, BLE personnel mobilized to the site to perform four AFVR events on monitoring well clusters MW-4 and MW-17 (AFVR Event #1), MW-6 and MW-17 (AFVR Event #2), MW-6, MW-15, and MW-18 (AFVR Event #3), and MW-3R and MW-18 (AFVR Event #4). A hydrogeologist from BLE's Greenville, South Carolina office was on-site for observation and monitoring during each event. The AFVR events



were performed by Landprobe Drilling Services (Landprobe) of Greenville, South Carolina. A site and well location plan is shown as Figure 2. The results of each AFVR event are provided below.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #1 – JUNE 12, 2013

On June 12, 2013, the first 8-hour AFVR event was conducted in monitoring wells MW-4 and MW-17. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122 and approximately 1.36-feet (MW-4) and 0.01-feet (MW-17) of free-phase petroleum product was detected (Figure 2). Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-5, MW-6, and MW-16 were measured (feet below top of PVC casing (btoc)) and recorded on Table 1.

The AFVR event was initiated at 0745 and concluded at 1545. The general weather conditions observed during this period of time were clear skies; winds varied between 0 to 12 miles per hour (mph) with an ambient temperature between 73° and 90° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 27 inches of mercury was applied to MW-4 and MW-17. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in MW-5, MW-6, and MW-16 to evaluate drawdown. Gauging data observed during the event is shown in Table 1.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a granular activated carbon (GAC) unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae[®] 2000 Photo Ionization Detector (PID) and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 1A.

At the completion of the AFVR event, a total volume of 194 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately one-gallon of free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to



separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.09 pounds of gasoline vapor which is equivalent to approximately 0.01 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 1A.

Following the conclusion of the event, approximately 0.01-feet and 0.14-feet of free-phase petroleum product was detected in AFVR monitoring wells MW-4 and MW-17, respectively. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 1.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #2 – JULY 11, 2013

On July 11, 2013, the second 8-hour AFVR event was conducted in monitoring wells MW-6 and MW-17. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst® Interface Meter Model 122 and approximately 1.86-feet (MW-6) and 0.20-feet (MW-17) of free-phase petroleum product was detected (Figure 2). Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-4, MW-5, and MW-18 were measured (feet btoc) and recorded on Table 2.

The AFVR event was initiated at 0800 and concluded at 1600. The general weather conditions observed during this period of time were mostly cloudy to overcast; winds varied between 0 to 8 mph with an ambient temperature between 75° and 82° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging from 26 to 29 inches of mercury was applied to MW-6 and MW-17. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in monitoring wells MW-4, MW-5, and MW-18 to evaluate drawdown. Gauging data observed during the event is shown in Table 2.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30



minutes throughout the event using a MiniRae[®] 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 2A.

At the completion of the AFVR event, a total volume of 194 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 2.5-gallons of free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.60 pounds of gasoline vapor which is equivalent to approximately 0.10 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 2A.

Following the conclusion of the event, approximately 0.79-feet and 1.13-feet of free-phase petroleum product was detected in AFVR monitoring wells MW-6 and MW-17, respectively. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 2.

AGGRESSIVE FLUID VAPOR RECOVERY EVENT #3 – AUGUST 1, 2013

On August 1, 2013, the third 8-hour AFVR event was conducted in monitoring wells MW-6, MW-15, and MW-18. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst[®] Interface Meter Model 122 and approximately 0.88-feet (MW-6) and 0.01-feet (MW-18) of free-phase petroleum product was detected (Figure 2). No free-phase petroleum product was detected in monitoring well MW-15. Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-5 and MW-17 were measured (feet btoc) and recorded on Table 3.

The AFVR event was initiated at 0730 and concluded at 1530. The general weather conditions observed during this period of time were overcast with periods of rain; winds varied between 0 to 8

September 12, 2013 BLE Project No. J13-1010-20



Report of Multiple Aggressive Fluid Vapor Recovery Events Former Ryder Terminal UST Permit #11929; CA #46042

mph with an ambient temperature between 73° and 84° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 20 and 27 inches of mercury was applied to MW-6, MW-15, and MW-18. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in wells MW-5 and MW-17 to evaluate drawdown. Gauging data observed during the event is shown in Table 3.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae® 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 3A.

At the completion of the AFVR event, a total volume of 725 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 0.5-gallons of free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.

A total of approximately 0.56 pounds of gasoline vapor which is equivalent to approximately 0.09 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 3A.

Following the conclusion of the event, approximately 0.01-feet and 0.02-feet of free-phase petroleum product was detected in AFVR monitoring wells MW-6 and MW-18, respectively. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 3.



AGGRESSIVE FLUID VAPOR RECOVERY EVENT #4 – AUGUST 12, 2013

On August 12, 2013, the fourth 8-hour AFVR event was conducted in monitoring wells MW-3R and MW-18. Prior to initiating the event, BLE personnel gauged the monitoring wells using a Solinst[®] Interface Meter Model 122 and approximately 0.01-feet of free-phase petroleum product was detected in monitoring well MW-3R (Figure 2). No free-phase petroleum product was detected in monitoring well MW-18. Additionally, the initial depth to free-phase petroleum product and/or groundwater readings in adjacent source area monitoring wells MW-2 and MW-12 were measured (feet btoc) and recorded on Table 4.

The AFVR event was initiated at 0745 and concluded at 1545. The general weather conditions observed during this period of time were clear to partly cloudy; winds varied between 0 to 9 mph with an ambient temperature between 75° and 91° Fahrenheit. Throughout the duration of the AFVR event, a continuous vacuum ranging between 20.5 to 22 inches of mercury was applied to MW-3R and MW-18. In addition to collecting vacuum readings, the depth to free-phase petroleum product / groundwater (feet btoc) was measured every 30 minutes in wells MW-2 and MW-12 to evaluate drawdown. Gauging data observed during the event is shown in Table 4.

Due to the close proximity of the site to a populated area, volatile air emissions were treated on-site by Landprobe personnel utilizing a GAC unit. Influent and effluent vapor concentrations along with the off-gas stack temperature, relative humidity, and airflow velocity were measured every 30 minutes throughout the event using a MiniRae[®] 2000 PID and an Extech 45160 Thermo-Hygro-Anemometer. The observed off gas vapor concentrations are shown in Table 4A.

At the completion of the AFVR event, a total volume of 1,079 gallons of petroleum-impacted groundwater was determined to have been recovered from the site. No free-phase petroleum product was measured in the holding tanks at the end of the AFVR event. Please note that petroleum product losses may occur through emulsification with groundwater and volatilization during an AFVR event. Additionally, the liquids may not have had sufficient time to separate in order to obtain an accurate free-phase petroleum product thickness. Waste transportation and disposal records for the petroleum-impacted groundwater recovered during the AFVR event are provided in Appendix A.



A total of approximately 0.45 pounds of gasoline vapor which is equivalent to approximately 0.07 gallons of gasoline, were calculated to have been recovered during the AFVR event. The AFVR emissions calculations for this event are provided as Table 4A.

Following the conclusion of the event, free-phase petroleum product was not detected in the source area monitoring wells. Total free-phase petroleum product/groundwater level changes for this event are shown in Table 4.

CONCLUSIONS AND RECOMMENDATIONS

BLE personnel remobilized to the site on August 30, 2013 to gauge monitoring wells MW-2, MW-3R, MW-4, MW-5, MW-6, MW-12, MW-15, MW-16, MW-17, and MW-18 for free-phase petroleum product. Approximately 0.72-feet (MW-6), 0.01-feet (MW-15), 0.18-feet (MW-17), and 0.01-feet (MW-18) of free-phase petroleum product was detected in the monitoring wells. No free-phase petroleum product was observed in the remaining wells that were gauged (MW-2, MW-3R, MW-4, MW-5, MW-12, and MW-16). Post AFVR free-phase petroleum product measurements are shown in Table 5.

A combined total volume of 2,192-gallons of petroleum-impacted groundwater was recovered during the current scope of work. Of this total, approximately 4.27 gallons of petroleum free-product (liquid and vapor-phase) was calculated to have been recovered.

The AFVR events performed during this scope of work have been successful at reducing free-phase petroleum product at the site. As the next scope of work, we recommend a series of four additional AFVR events be conducted on monitoring wells MW-6, MW-15, MW-17, and MW-18 in a continued effort to remove free-phase product from the site. Upon completion of the AFVR events, we recommend a comprehensive groundwater sampling event of all monitoring wells associated with the site be conducted to evaluate contaminant concentration trends. The subject site has not been sampled since January 2013.



QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten, c/o Annie Mumbauer, BB&T Wealth Management. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

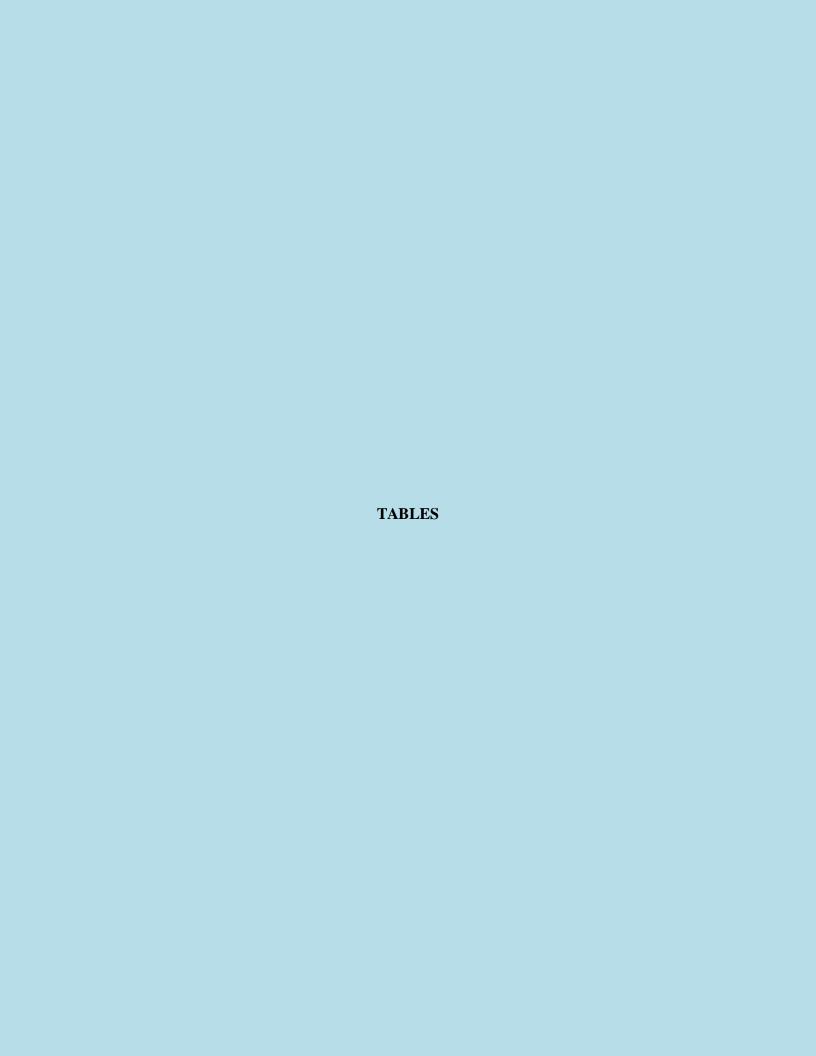


TABLE 1

AFVR Gauging Data - June 12, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

				Mon	itoring Well Gauging	Data			Air En	nissions
			Readings f Hg)		Dep	oth to Free Product/W (feet BTOC)	ater		Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW04	11929-MW17	11929-MW04	11929-MW05	11929-MW06	11929-MW16	11929-MW17		
06/12/13	0745	26.0	26.0	22.70 / 24.06	22.02	23.05 / 23.12	22.10	22.62 / 22.63	266	10.8
06/12/13	0815	26.0	26.0		22.02	23.28 / 23.24	22.16		284	23.0
06/12/13	0845	27.0	27.0		22.02	23.51 / 25.35	22.22		288	25.8
06/12/13	0915	27.0	27.0		22.04	23.57 / 24.43	22.27		202	18.7
06/12/13	0945	27.0	27.0		22.05	23.62 / 25.50	22.31		230	19.4
06/12/13	1015	27.0	27.0		22.05	23.67 / 25.58	22.34		244	20.2
06/12/13	1045	27.0	27.0	Ę	22.05	23.72 / 25.65	22.36	Ę	371	26.4
06/12/13	1115	27.0	27.0	VE	22.05	23.76 / 25.69	22.40	Λ <u>Ε</u>	227	20.2
06/12/13	1145	27.0	27.0	鱼	22.05	23.80 / 25.73	22.43	鱼	229	21.0
06/12/13	1215	27.0	27.0	AFVR EVENT	22.05	23.83 / 25.79	22.47	AFVR EVENT	426	29.3
06/12/13	1245	27.0	27.0	AF	22.05	23.86 / 25.85	22.50	AF.	463	34.2
06/12/13	1315	27.0	27.0		22.05	23.89 / 25.89	22.52		419	32.2
06/12/13	1345	27.0	27.0		22.05	23.91 / 25.92	22.53		441	31.5
06/12/13	1415	27.0	27.0		22.05	23.94 / 25.99	22.53		407	31.0
06/12/13	1445	27.0	27.0		22.05	23.96 / 26.05	22.53	1	437	34.7
06/12/13	1515	27.0	27.0		22.05	23.98 / 26.06	22.53		440	36.4
06/12/13	1545	27.0	27.0	24.22 / 24.23	22.05	24.00 / 26.04	22.53	26.51 / 26.65	446	35.6
		Water Level	Change (feet)	0.17	0.03	2.92	0.43	4.02		
		Initial FP th	ickness (feet)	1.36	NFP	0.07	NFP	0.01		
		Final FP thi	ckness (feet)	0.01	NFP	2.04	NFP	0.14		

NOTES:

AFVR event performed on June 12, 2013.

1.36, 0.07, and 0.01.-feet of free product was detected in 11929-MW04, -MW06, and -MW17, respectively, prior to initiating the AFVR event.

0.01, 2.04, and 0.14-feet of free product was detected in 11929- MW04, -MW06, and -MW17, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free-Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free-Product detected

TABLE 1A

AFVR Emissions Field Data - June 12, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

							WEL	L ID#: 119)29-MW(04 & 11	929-MW17						
			AFV	R FIELD	MEASU	REMENTS						EM	ISSION CALCU	LATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q_{std}	PPM_d	PPM _c	K	C_{cm}	C_{c}	PMR_c	PMR_g	
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
6/12/2013	0745	27.0	77	3	80	78.3	266	0:00	3.41	288.48	1,153.91	4	575.76	3.59E-05	0.01	0.01	0.00
6/12/2013	0815	26.5	77	3	80	76.8	284	0:30	3.41	308.00	1,231.99	4	614.72	3.84E-05	0.01	0.01	0.00
6/12/2013	0845	27.0	77	3	92	82.8	288	1:00	3.33	312.34	1,249.34	4	623.37	3.89E-05	0.01	0.01	0.00
6/12/2013	0915	27.0	77	3	100	85.5	202	1:30	3.29	219.07	876.28	4	437.23	2.73E-05	0.01	0.01	0.00
6/12/2013	0945	27.0	97	3	102	87.7	230	2:00	4.12	249.43	997.74	4	497.83	3.11E-05	0.01	0.01	0.00
6/12/2013	1015	27.0	97	3	104	81.5	244	2:30	4.11	264.62	1,058.47	4	528.14	3.30E-05	0.01	0.01	0.00
6/12/2013	1045	27.0	97	3	110	76.8	371	3:00	4.07	402.35	1,609.40	4	803.03	5.01E-05	0.01	0.01	0.00
6/12/2013	1115	27.0	175	3	110	83.1	227	3:30	7.34	246.18	984.73	4	491.34	3.07E-05	0.01	0.02	0.00
6/12/2013	1145	27.0	138	3	110	83.0	229	4:00	5.79	248.35	993.40	4	495.67	3.09E-05	0.01	0.01	0.00
6/12/2013	1215	27.0	175	3	118	84.6	426	4:30	7.24	462.00	1,847.99	4	922.07	5.76E-05	0.02	0.03	0.00
6/12/2013	1245	27.0	135	3	118	77.2	463	5:00	5.58	502.12	2,008.49	4	1,002.16	6.26E-05	0.02	0.02	0.00
6/12/2013	1315	27.0	97	3	118	84.3	419	5:30	4.01	454.41	1,817.62	4	906.92	5.66E-05	0.01	0.02	0.00
6/12/2013	1345	27.0	97	3	118	83.4	441	6:00	4.01	478.26	1,913.06	4	954.54	5.96E-05	0.01	0.02	0.00
6/12/2013	1415	27.0	118	3	118	82.6	407	6:30	4.88	441.39	1,765.56	4	880.95	5.50E-05	0.02	0.02	0.00
6/12/2013	1445	27.0	77	3	118	81.7	437	7:00	3.18	473.93	1,895.70	4	945.88	5.91E-05	0.01	0.01	0.00
6/12/2013	1515	27.0	97	3	120	80.2	440	7:30	4.00	477.18	1,908.72	4	952.38	5.95E-05	0.01	0.02	0.00
6/12/2013	1545	27.0	77	3	120	79.6	446	8:00	3.17	483.69	1,934.75	4	965.36	6.03E-05	0.01	0.01	0.00
Average \	Values	27.0	105	3	108.0	81.7	342		4.41	371.28	1,485.13	4	741.02	4.63E-05	0.01	0.01	0.00
\mathbf{B}_{ws}	0.078	$\mathbf{B}_{ ext{wsw}}$	0.047					·			·	Total P	ounds of Carb	on Recovered	as Emissio	ons:	0.08

NOTES:

AFVR event performed on June 12, 2013.

Vacuum applied to monitoring well 11929-MW04 and 11929-MW17.

0.01, 2.04, and 0.14-feet of free product was detected in 11929- MW04, -MW06, and -MW17, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

in. of Hg - inches of mercury

ppm - parts per million

Q_{std} flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPM, - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

C_{cm}- mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMR_g - pollutant mass removal of VOCs as gasoline

Bwsw - lb of water per lb of dry air

 $B_{\mbox{\scriptsize ws}}$ - water vapor % by volume

Calculations have been derived from published guidance

0.09

0.01

TABLE 2

AFVR Gauging Data - July 11, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

				Mon	itoring Well Gauging	Data			Air En	nissions
			Readings f Hg)		Dep	oth to Free Product/W (feet BTOC)	ater		Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW06	11929-MW17	11929-MW04	11929-MW05	11929-MW06	11929-MW17	11929-MW18		
07/11/13	0800	26.0	26.0	21.67	20.94	22.55 / 24.41	22.09 / 22.29	22.06 / 22.15	287	24.6
07/11/13	0830	26.0	26.0	21.68	20.94			22.10 / 22.25	298	26.8
07/11/13	0900	26.0	26.0	21.69	20.40			22.16 / 22.34	310	29.0
07/11/13	0930	26.0	26.0	21.71	20.96			22.22 / 22.40	210	19.5
07/11/13	1000	26.0	26.0	21.75	20.96			22.26 / 22.44	189	17.4
07/11/13	1030	26.0	26.0	21.75	20.97			22.29 / 22.52	192	18.7
07/11/13	1100	26.0	26.0	21.76	20.97	Ę	Ę	22.33 / 22.60	160	15.1
07/11/13	1130	26.0	26.0	21.78	20.97	AFVR EVENT	AFVR EVENT	22.35 / 22.62	220	19.4
07/11/13	1200	26.0	26.0	21.79	20.97	듈		22.35 / 22.70	316	25.9
07/11/13	1230	26.0	26.0	21.79	20.97	Z X	K X	22.35 / 22.70	348	20.3
07/11/13	1300	26.0	26.0	21.79	20.97	AF.	AF.	22.37 / 22.74	384	26.4
07/11/13	1330	26.0	26.0	21.79	20.97			22.39 / 22.77	333	23.6
07/11/13	1400	26.0	26.0	21.79	20.97			22.39 / 22.77	319	22.4
07/11/13	1430	26.0	26.0	21.81	20.97			22.39 / 22.77	348	23.5
07/11/13	1500	26.0	26.0	21.82	20.97			22.39 / 22.77	362	24.5
07/11/13	1530	26.0	26.0	21.83	20.97			22.39 / 22.77	312	26.2
07/11/13	1600	20.0	26.0	21.85	20.95	26.01 / 26.80	25.67 / 26.80	22.29 / 24.70	330	27.5
		Water Level	Change (feet)	0.18	0.01	2.39	4.51	2.55		
		Initial FP th	ickness (feet)	NFP	NFP	1.86	0.20	0.09		
		Final FP thi	ckness (feet)	NFP	NFP	0.79	1.13	2.41		

NOTES:

AFVR event performed on July 11, 2013.

1.86, 0.20, and 0.09-feet of free product was detected in 11929-MW06, -MW17 and -MW18, respectively, prior to initiating the AFVR event.

0.79, 1.13, and 2.41-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free Product detected

TABLE 2A

AFVR Emissions Field Data - July 11, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

							WEI	L ID #: 119	929-MW(06 & 11	929-MW17						
			AFV	R FIELI) MEASU	REMENTS						EM	ISSION CALCU	LATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q_{std}	PPM_d	PPM _c	K	C _{cm}	C_c	PMR_c	PMR_g	
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
7/11/2013	0800	27.0	877	3	80	86.9	287	0:00	38.46	314.07	1,256.30	4	626.84	3.91E-05	0.09	0.10	0.02
7/11/2013	0830	25.0	506	3	120	90.6	298	0:30	20.66	326.11	1,304.45	4	650.87	4.06E-05	0.05	0.06	0.01
7/11/2013	0900	25.0	667	3	120	90.2	310	1:00	27.24	339.24	1,356.98	4	677.08	4.23E-05	0.07	0.08	0.01
7/11/2013	0930	27.0	687	3	120	84.1	210	1:30	28.05	229.81	919.24	4	458.67	2.86E-05	0.05	0.06	0.01
7/11/2013	1000	27.0	664	3	110	87.4	189	2:00	27.59	206.83	827.32	4	412.80	2.58E-05	0.04	0.05	0.01
7/11/2013	1030	27.0	654	3	110	86.0	192	2:30	27.17	210.11	840.45	4	419.35	2.62E-05	0.04	0.05	0.01
7/11/2013	1100	27.0	666	3	110	86.0	160	3:00	27.67	175.09	700.38	4	349.46	2.18E-05	0.04	0.04	0.01
7/11/2013	1130	27.0	680	3	110	88.3	220	3:30	28.25	240.75	963.02	4	480.51	3.00E-05	0.05	0.06	0.01
7/11/2013	1200	27.0	658	3	110	85.8	316	4:00	27.34	345.81	1,383.24	4	690.18	4.31E-05	0.07	0.08	0.01
7/11/2013	1230	27.0	660	3	110	86.0	348	4:30	27.42	380.83	1,523.32	4	760.08	4.75E-05	0.08	0.09	0.01
7/11/2013	1300	27.0	720	3	110	86.0	384	5:00	29.92	420.23	1,680.90	4	838.70	5.24E-05	0.09	0.11	0.02
7/11/2013	1330	27.0	664	3	110	82.0	333	5:30	27.59	364.41	1,457.66	4	727.31	4.54E-05	0.08	0.09	0.01
7/11/2013	1400	27.0	660	3	110	80.9	319	6:00	27.42	349.09	1,396.37	4	696.74	4.35E-05	0.07	0.08	0.01
7/11/2013	1430	27.0	602	3	110	86.0	348	6:30	25.01	380.83	1,523.32	4	760.08	4.75E-05	0.07	0.08	0.01
7/11/2013	1500	27.0	662	3	110	84.5	362	7:00	27.51	396.15	1,584.60	4	790.65	4.94E-05	0.08	0.09	0.02
7/11/2013	1530	27.0	560	3	110	85.6	312	7:30	23.27	341.43	1,365.73	4	681.45	4.25E-05	0.06	0.07	0.01
7/11/2013	1600	27.0	620	3	110	84.2	330	8:00	25.76	361.13	1,444.52	4	720.76	4.50E-05	0.07	0.08	0.01
Average `	Values	26.8	659	3	110.0	85.9	289		27.43	316.59	1,266.34	4	631.86	3.94E-05	0.06	0.08	0.01
\mathbf{B}_{ws}	0.086	$\mathbf{B}_{\mathrm{wsw}}$	0.052									Total P	ounds of Carb	on Recovered	as Emissio	ons:	0.52

NOTES:

AFVR event performed on July 11, 2013.

Vacuum applied to monitoring wells 11929-MW06 and 11929-MW17.

0.79, 1.13, and 2.41-feet of free product was detected in 11929-MW06,. -MW17, and -MW18, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

in. of Hg - inches of mercury

ppm - parts per million

Q_{std} flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPM_c - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

Ccm- mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMRg - pollutant mass removal of VOCs as gasoline

Bwsw - lb of water per lb of dry air

 \boldsymbol{B}_{ws} - water vapor % by volume

Calculations have been derived from published guidance

0.60

0.10

TABLE 3

AFVR Gauging Data - August 1, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

					Monitoring We	ll Gauging Data				Air Em	issions
			Vacuum Readings (In. of Hg)			Dep	oth to Free Product/W (feet BTOC)	ater		Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW06	11929-MW15	11929-MW18	11929-MW05	11929-MW06	11929-MW15	11929-MW17	11929-MW18		
08/01/13	0730	27.0	27.0	27.0	19.65	21.73 / 22.61	19.84	21.05 / 21.25	21.19 / 21.20	380	34.0
08/01/13	0800	27.0	27.0	27.0	19.75			21.10 / 21.31		334	32.6
08/01/13	0830	27.0	27.0	27.0	19.75			21.17 / 21.37		350	41.0
08/01/13	0900	27.0	27.0	27.0	19.75			21.22 / 21.42		340	38.0
08/01/13	0930	27.0	27.0	27.0	19.75			21.29 / 21.49		336	44.0
08/01/13	1000	20.0	23.0	20.0	19.77			21.36 / 21.61		349	46.0
08/01/13	1030	20.0	23.0	20.0	19.80	VENT	ENT	21.61 / 21.92	EVENT	433	50.0
08/01/13	1100	20.0	23.0	20.0	19.90	AE A	X E	21.76 / 22.10	Λ.Ε.	387	42.8
08/01/13	1130	20.0	23.0	20.0	20.02	<u> </u>	鱼	21.85 / 22.15	鱼	685	74.6
08/01/13	1200	20.0	23.0	20.0	20.07	AFVR	K K	21.89 / 22.15	X.	654	71.2
08/01/13	1230	20.0	23.0	20.0	20.15	AF.	AF.	21.92 / 22.18	AF.	668	72.9
08/01/13	1300	20.0	23.0	20.0	20.16			22.96 / 22.28		454	56.9
08/01/13	1330	20.0	23.0	20.0	20.22			22.01 / 22.31		483	57.2
08/01/13	1400	20.0	23.0	20.0	20.28			22.02 / 22.35		498	59.3
08/01/13	1430	20.0	23.0	20.0	20.31			22.02 / 22.369		375	49.0
08/01/13	1500	20.0	23.0	20.0	20.35			22.05 / 22.40		464	58.3
08/01/13	1530	20.0	23.0	20.0	20.39	25.75 / 25.76	22.11	21.98 / 22.38	22.00 / 22.02	494	59.5
			ater Level Change (fe		0.74	3.15	2.27	1.15	0.82		
		I	nitial FP thickness (fee	t)	NFP	0.88	NFP	0.20	0.01		
		I	Final FP thickness (fee	t)	NFP	0.01	NFP	0.40	0.02		

NOTES:

AFVR event performed on August 1, 2013.

0.88, 0.20, and 0.01-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, prior to initiating the AFVR event. 0.01, 0.40, and 0.02-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

 $NFP = No \ Free \ Product \ detected$

TABLE 3A

AFVR Emissions Field Data - August 1, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

						W	ELL ID#:	11929-MW	06, 11929	9-MW-1	15, & 11929	-MW18					
			AFV	R FIELD	MEASU	REMENTS						EM	ISSION CALCU	LATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	PPM _{measured}	Elapsed Time	Q_{std}	PPM_d	PPM _c	K	C_{cm}	C _c	PMR_c	PMR_g	
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
8/1/2013	0730	27.0	116	3	90	87.8	380	0:00	4.88	425.89	1,703.57	4	850.02	5.31E-05	0.02	0.02	0.00
8/1/2013	0800	27.0	97	3	100	89.4	334	0:30	4.01	374.34	1,497.35	4	747.12	4.66E-05	0.01	0.01	0.00
8/1/2013	0830	27.0	97	3	106	86.2	350	1:00	3.96	392.27	1,569.08	4	782.91	4.89E-05	0.01	0.01	0.00
8/1/2013	0900	27.0	77	3	110	84.6	340	1:30	3.12	381.06	1,524.25	4	760.54	4.75E-05	0.01	0.01	0.00
8/1/2013	0930	27.0	116	3	118	86.1	336	2:00	4.64	376.58	1,506.31	4	751.59	4.69E-05	0.01	0.02	0.00
8/1/2013	1000	25.0	487	3	120	89.3	349	2:30	19.42	391.15	1,564.59	4	780.67	4.87E-05	0.06	0.07	0.01
8/1/2013	1030	25.0	487	3	120	87.8	433	3:00	19.42	485.29	1,941.17	4	968.57	6.05E-05	0.07	0.08	0.01
8/1/2013	1100	25.0	429	3	120	90.7	387	3:30	17.10	433.74	1,734.95	4	865.67	5.40E-05	0.06	0.06	0.01
8/1/2013	1130	25.0	623	3	122	87.9	685	4:00	24.75	767.73	3,070.91	4	1,532.26	9.57E-05	0.14	0.16	0.03
8/1/2013	1200	25.0	799	3	122	87.7	654	4:30	31.75	732.98	2,931.93	4	1,462.92	9.13E-05	0.17	0.20	0.03
8/1/2013	1230	25.0	760	3	124	87.7	668	5:00	30.09	748.67	2,994.70	4	1,494.24	9.33E-05	0.17	0.19	0.03
8/1/2013	1300	25.0	741	3	126	87.7	454	5:30	29.24	508.83	2,035.32	4	1,015.54	6.34E-05	0.11	0.13	0.02
8/1/2013	1330	25.0	646	3	122	85.2	483	6:00	25.67	541.33	2,165.33	4	1,080.41	6.75E-05	0.10	0.12	0.02
8/1/2013	1400	25.0	701	3	122	83.7	498	6:30	27.85	558.14	2,232.57	4	1,113.97	6.95E-05	0.12	0.13	0.02
8/1/2013	1430	25.0	779	3	122	82.4	375	7:00	30.95	420.29	1,681.15	4	838.83	5.24E-05	0.10	0.11	0.02
8/1/2013	1500	25.0	760	3	122	80.7	464	7:30	30.20	520.04	2,080.15	4	1,037.91	6.48E-05	0.12	0.14	0.02
8/1/2013	1530	25.0	740	3	122	84.3	494	8:00	29.40	553.66	2,214.64	4	1,105.02	6.90E-05	0.12	0.14	0.02
Average `	Values	25.6	497	3	116.9	86.4	452		19.79	506.59	2,026.35	4	1,011.07	6.31E-05	0.07	0.09	0.01
\mathbf{B}_{ws}	0.108	$\mathbf{B}_{ ext{wsw}}$	0.065									Total P	ounds of Carb	on Recovered	as Emissio	ons:	0.49

NOTES:

AFVR event performed on August 1, 2013.

Vacuum applied to monitoring well 11929-MW06, 11929-MW15, and 11929-MW18.

0.01, 0.40, and 0.02-feet of free product was detected in 11929-MW06, -MW17, and -MW18, respectively, at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

in. of Hg - inches of mercury

ppm - parts per million

Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

PPM, - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

Total Gallons of Gasoline Recovered as Emissions:

K - number of carbons in calibration gas

C_{cm}- mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMR_g - pollutant mass removal of VOCs as gasoline

Bwsw - lb of water per lb of dry air

 $\boldsymbol{B}_{ws}\text{-}$ water vapor % by volume

Calculations have been derived from published guidance

0.56

0.09

TABLE 4

AFVR Gauging Data - August 12, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

				Monitoring We	ell Gauging Data			Air En	nissions
			Readings f Hg)		Depth to Free 1 (feet B			Influent (ppm)	Effluent (ppm)
Date	Time	11929-MW03R	11929-MW18	11929-MW02	11929-MW03R	11929-MW12	11929-MW18		
08/12/13	0745	22.0	20.5	19.51	20.88 / 20.89	22.24	20.39	182	0.4
08/12/13	0815	20.5	21.0	19.62		22.42		210	1.5
08/12/13	0845	20.5	21.0	19.74		22.58		579	3.2
08/12/13	0915	20.5	21.5	19.80		22.76		621	14.3
08/12/13	0945	20.5	21.5	19.95		22.88		680	15.5
08/12/13	1015	21.0	21.5	20.05		23.03		635	14.3
08/12/13	1045	21.0	21.0	20.18	Z	23.16	Ę	745	10.5
08/12/13	1115	21.5	21.0	20.40	AFVR EVENT	23.29	AFVR EVENT	948	12.0
08/12/13	1145	21.5	21.0	20.53	<u> </u>	23.38	<u> </u>	669	14.3
08/12/13	1215	21.5	21.0	20.62	V.	23.49	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	563	15.4
08/12/13	1245	21.0	20.5	20.68	AF	23.62	AF	684	16.2
08/12/13	1315	21.0	21.0	20.74		23.81		600	15.3
08/12/13	1345	21.0	20.5	20.84		23.92		649	5.0
08/12/13	1415	21.0	20.5	20.98		24.07		567	17.6
08/12/13	1445	21.0	20.5	21.13		24.16		966	20.5
08/12/13	1515	21.0	20.5	21.22		24.28		687	17.9
08/12/13	1545	21.0	20.5	21.28	24.45	24.33	26.86	783	21.2
		Water Level	Change (feet)	1.77	3.56	2.09	6.47		
		Initial FP th	ickness (feet)	NFP	0.01	NFP	NFP		
		Final FP thi	ckness (feet)	NFP	NFP	NFP	NFP		

NOTES:

AFVR event performed on August 12, 2013.

0.01-feet of free product was detected in 11929-MW03R prior to initiating the AFVR event.

No free-product was detected in 11929-MW02, -MW03R, -MW12, or -MW18 at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-ionization detector (PID).

in. of Hg = inches of mercury

BTOC - Below Top Of Casing

FP - Free Product

ppm - parts per million

Water Level Change (feet) = Final depth to water minus initial depth to water; positive = drawdown; negative = rise

NFP = No Free Product detected

TABLE 4A

AFVR Emissions Field Data - August 12, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

							WEL	L ID #: 119	29-MW0	3R & 11	1929-MW18	3					
			AFV	R FIELI	MEASU	REMENTS						EM	ISSION CALCU	LATIONS			
		Vacuum	Velocity	Pipe D	Temp	Rel. Humidity	$PPM_{measured}$	Elapsed Time	Q_{std}	PPM_d	PPM _c	K	C_{cm}	C_c	PMR_c	PMR_g	
Date	Time	(in. Hg)	(ft/min)	(in)	(F)	(%)	(ppm)	(hr:min)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
8/12/2013	0745	26.0	233	3	82	88.0	182	0:00	9.48	214.39	857.55	4	427.88	2.67E-05	0.02	0.02	0.00
8/12/2013	0815	26.0	175	3	100	86.7	210	0:30	6.89	246.24	984.96	4	491.45	3.07E-05	0.01	0.01	0.00
8/12/2013	0845	26.0	194	3	120	87.4	579	1:00	7.38	680.89	2,723.55	4	1,358.95	8.48E-05	0.04	0.04	0.01
8/12/2013	0915	26.0	232	3	122	87.1	621	1:30	8.79	729.90	2,919.61	4	1,456.77	9.09E-05	0.05	0.06	0.01
8/12/2013	0945	26.0	232	3	124	86.3	680	2:00	8.76	798.66	3,194.64	4	1,594.00	9.95E-05	0.05	0.06	0.01
8/12/2013	1015	26.5	175	3	130	88.0	635	2:30	6.54	746.12	2,984.49	4	1,489.14	9.30E-05	0.04	0.04	0.01
8/12/2013	1045	26.5	292	3	130	87.1	745	3:00	10.91	875.65	3,502.59	4	1,747.65	1.09E-04	0.07	0.08	0.01
8/12/2013	1115	26.5	389	3	130	82.8	948	3:30	14.54	1,114.25	4,456.98	4	2,223.86	1.39E-04	0.12	0.14	0.02
8/12/2013	1145	26.5	272	3	131	86.8	669	4:00	10.15	785.73	3,142.92	4	1,568.20	9.79E-05	0.06	0.07	0.01
8/12/2013	1215	26.5	331	3	131	81.9	563	4:30	12.35	661.14	2,644.57	4	1,319.54	8.24E-05	0.06	0.07	0.01
8/12/2013	1245	26.5	370	3	136	82.6	684	5:00	13.69	803.95	3,215.80	4	1,604.56	1.00E-04	0.08	0.10	0.02
8/12/2013	1315	26.5	389	3	138	88.1	600	5:30	14.34	705.22	2,820.87	4	1,407.51	8.79E-05	0.08	0.09	0.01
8/12/2013	1345	26.5	370	3	137	82.1	649	6:00	13.67	762.81	3,051.25	4	1,522.45	9.50E-05	0.08	0.09	0.01
8/12/2013	1415	26.5	350	3	140	89.7	567	6:30	12.86	666.43	2,665.73	4	1,330.09	8.30E-05	0.06	0.07	0.01
8/12/2013	1445	26.5	350	3	138	86.1	966	7:00	12.91	1,135.40	4,541.61	4	2,266.09	1.41E-04	0.11	0.13	0.02
8/12/2013	1515	26.5	292	3	138	81.5	687	7:30	10.77	807.48	3,229.90	4	1,611.60	1.01E-04	0.07	0.08	0.01
8/12/2013	1545	26.5	262	3	140	86.4	783	8:00	9.63	920.31	3,681.24	4	1,836.80	1.15E-04	0.07	0.08	0.01
Average V	Values	26.4	289	3	127.5	85.8	633		10.80	744.39	2,977.54	4	1,485.68	9.28E-05	0.06	0.07	0.01
\mathbf{B}_{ws}	0.149	$\mathbf{B}_{\mathrm{wsw}}$	0.09									Total P	ounds of Carb	on Recovered	as Emissio	ons:	0.39

NOTES:

AFVR event performed on August 12, 2013.

Vacuum applied to monitoring well 11929-MW06, 11929-MW15, and 11929-MW18.

No free-product was detected in 11929-MW02, -MW03R, -MW12, or -MW18 at the conclusion of the AFVR event.

Vapor concentrations measured using a portable MiniRAE® 2000 Photo-Ionization Detector (PID).

in. of Hg - inches of mercury

ppm - parts per million

Q_{std} . flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

 PPM_d - "dry" concentration

Total Gallons of Gasoline Recovered as Emissions:

 $\mbox{PPM}_{\mbox{\tiny C}}$ - volumetric concentration of VOC emissions as carbon, dry basis, at STP

Total Pounds of Gasoline Recovered as Emissions:

 \boldsymbol{K} - number of carbons in calibration gas

 $C_{\text{cm}}\text{-}$ mass concentration of VOC emissions as carbon

PMR_c- pollutant mass removal of VOCs as carbon

PMRg - pollutant mass removal of VOCs as gasoline

 \boldsymbol{B}_{wsw} - lb of water per lb of dry air

 $B_{\mbox{\scriptsize ws}}$ - water vapor % by volume

Calculations have been derived from published guidance

0.45

0.07

TABLE 5

Post AFVR Gauging Data - August 30, 2013 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #46042 BLE Project Number J13-1010-20

Well ID	11929-MW02	11929-MW03R	11929-MW04	11929-MW05	11929-MW06	11929-MW12
Depth to Free-Product / Groundwater	NFP / 20.37	NFP / 20.15	NFP / 19.91	NFP / 19.08	21.26 / 21.98	NFP / 21.96
Free-Product Thickness (ft)	NFP	NFP	NFP	NFP	0.72	NFP

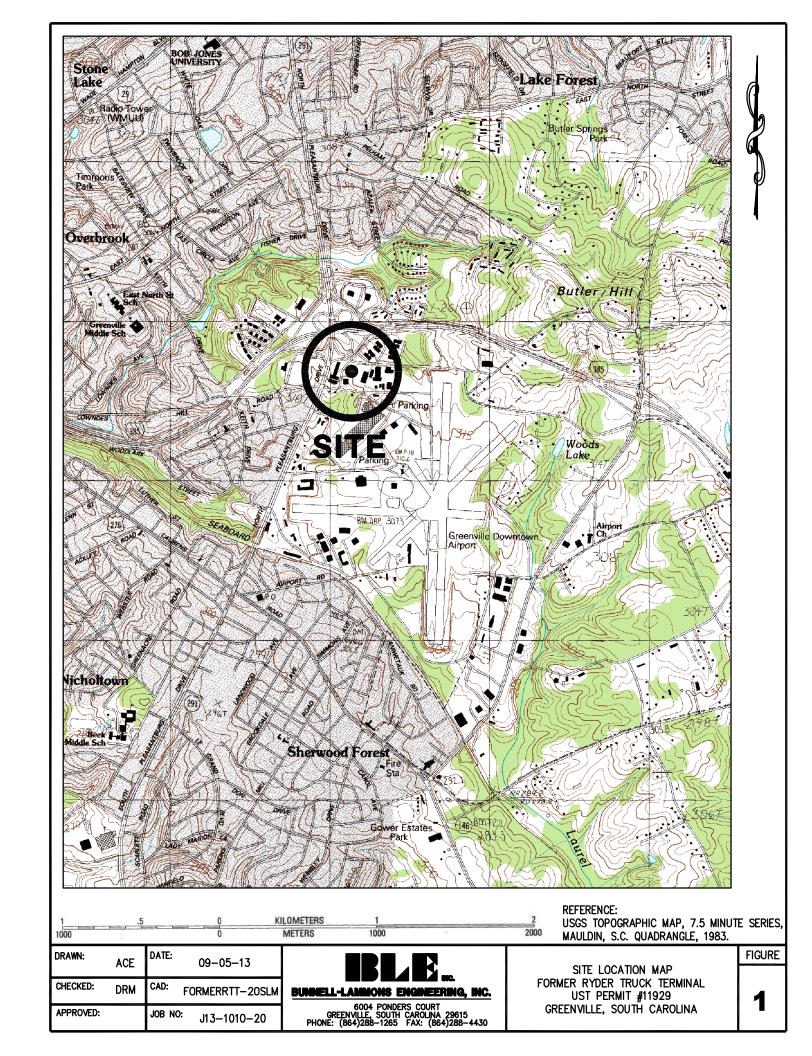
Well ID	11929-MW15	11929-MW16	11929-MW17	11929-MW18
Depth to Free-Product / Groundwater	19.54 / 19.55	NFP / 19.59	20.37 / 20.55	20.63 / 20.64
Free-Product Thickness (ft)	0.01	NFP	0.18	0.01

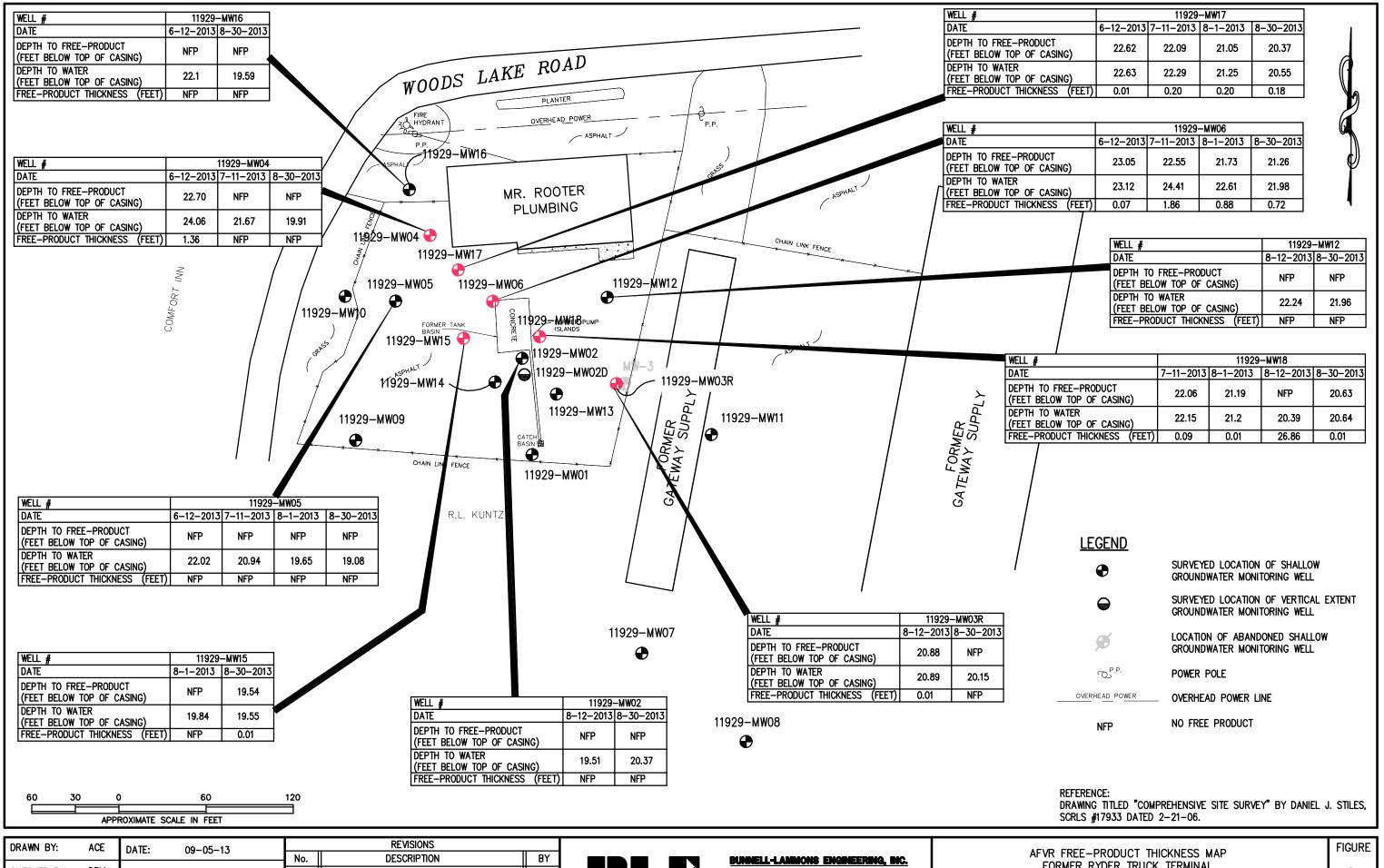
NOTES:

NFP - No Free-Product

Measurements are in feet below top of casing







DRAWN BY:	ACE	DATE:	09-05-13	REVISIONS					
		DATE.	16. 09-05-15		DESCRIPTION	BY			
CHECKED BY:	DRM	FILE:	FORMERRTT-20FPTM	No.					
APPROVED BY:		JOB NO:	J13-1010-20						



6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288–1265 FAX: (864)288–4430

FVR FREE-PRODUCT THICKNESS MAP FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 GREENVILLE, SOUTH CAROLINA

2



APPENDIX A WASTE TRANSPORTATION AND DISPOSAL RECORDS



5. Generator's Name and Mai			2. Page 1 of	3. Emergency Respons	se Phone	4. Waste T	racking Nu	mber	
J. Generator's Name and Mai	EUNNELL-LAMI 5004 PÄNDERS	COURT		Generator's Site Addres	ss (if different	than mailing add	ress)		
Generator's Phone: 6. Transporter 1 Company Na	GREEVILE, (er 42010				U.S. EPA ID	Number		
7. Transporter 2 Company Na	ELE .	-		,		U.S. EPA ID			
						U.S. EFAID	Number		
8. Designated Facility Name a	VLS RECCA SOS S. MAIA MAULDIN, S		PL			U.S. EPA ID		CK00076748	10
Facility's Phone:		· 多月 4.3 · · · · · · · · · · · · · · · · · · ·	*	10. Conta	ninoro				
9. Waste Shipping Nam	•	LILL ATER	1966 25	No.	Type	11. Total Quantity	12. Unit Wt./Vol.	,>	
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1	NGN-HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2. Page 1 of 3. Eme			4. Waste Ti	E	mber	
	5. Generator's Name and Mailing Address	Genera	itor's Site Address	s (It different	than mailing addr	ess)	1 -	
	71.00 ELLA - 10 TRIB HOTE 110 POPULAR LOURY 120 POPULAR LOURY 120 PROSENTE E. NO 18315	,			. * .			· ·
1	Generator's Phone:						· · · · · · · · · · · · · · · · · · ·	
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). □ □ #						<u> </u>	
	7. Transporter 2 Company Name	•			U.S. EPA ID I	Number 	•	
	8. Designated Facility Name and Site Address	3			U.S. EPA ID I			
	VLS RECOVERY SERVICES, LLC 206 S. MAIN STREET MAINLON, SC 25652				r. ·	ล้า(00.00.00.00	
	Facility's Phone: 설립사회하다시회되다							
	9. Waste Shipping Name and Description		10. Conta	iners Type	11. Total Quantity	12. Unit Wt./Vol.		
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7	4 11312 UT# 11929						and the second second	
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S.	Facility's Phone:				1			
	17c. Signature of Alternate Facility (or Generator)	•			L		Month Day	Year
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and A state



	1	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2. Page 1 c	of 3. Emergency Response Phone	4. Waste Tracking Number
	1	5. Generator's Name and Mailing Address	,		1010-18
		BUNNELL-LAMMON 6004 PONDERS CC Generator's Phone: GREENVILLE, SC	LIST	Generator's Site Address (if different than	n mailing address)
		6. Transporter 1 Company Name	Garar 133	,	U.S. EPA ID Number
	7	7. Transporter 2 Company Name		<i>;</i>	U.S. EPA ID Number
	. 8	Designated Facility Name and Site Address VLS RECOVER*	Y SERVICES, LLC		U.S. EPA ID Number
	F	505 S. MAIN STI MAULDIN, SC 2 Facility's Phone: 854-952-9953	REET 9662		\$GR000752468
	341	Waste Shipping Name and Description	•	No. Type	11. Total 12. Unit Quantity Wt./Vol.
GENERATOR		NON HAZ NON REG WELL WATER #11312	Tormer Ryder Truck to wood take Br. Greenville + 11929		7256 9
195		3.	,		
		4.	`		
	14.	Special Handling Instructions and Additional Information GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare the marked and labeled/placarded, and are in all respects in proper congenerator's/Offeror's Printed/Typed Name	atternor transport according to appli	re fully and accurately described above by th cable international and national government nature	al regulations.
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E		nsporter 2 Printed/Typed Name	Sign	ature	Month Day Year
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ALLIA I	17b.	b. Alternate Facility (or Generator)		Manifest Reference Number: U.S	S. EPA ID Number
-		ility's Phone: . Signature of Alternate Facility (or Generator)		-	. Month Day Year
DESIGN					
1	8. D	Designated Facility Owner or Operator: Certification of receipt of material	rials covered by the manifest except a	is noted in Item 17a	3
	rinte	ted/Typed Name	Cigno		Month Day Year



Facility's Phone: 864-962-9953 9. Waste Shipping Name and Description 11. NON HAZ NON REG WELL WATER #11312 13. Special Handling Instructions and Additional Information 14. GENERATOR's/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping rarked and labeled/placarded, and are in all respects in proper condition for transport according to applicable International and national governmental regulations. Generator's/Offeror's Printed/Typed Name Signature 11. Total No. Type Unity 11. Total No. Type Unity 2. Unity 2. Unity 3. Unity 4. U	CR000762458
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7. Transporter 2 Company Name 8. Designated Facility Name and Site Address V.S. RECOVERY SERVICES, LLC SGS S. MAIN STREET MAJLIDIN, SC 29662 Facilitys Phone: 854-962-9658 9. Waste Shipping Name and Description 10. Containers 11. Total 12. Universely William of Country Street Stre	Back Street
8. Designated Facility Name and Site Address VLS RECOVERY SERVICES, LLC SOS S. MAIN STREET MAULDIN, SC 2862 Facility's Phone: 864-962-9638 9. Waste Shipping Name and Description 10. Containers No. Type Quantity Wt.Vol Vell, WATER VS+ # 11929 2. 13. Special Handling Instructions and Additional Information 14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping or marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. Generator's/Offeror's Printed/Typed Name Signature Signature	Section 1
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16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Signature	Month Day Year
16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name Transporter 2 Printed/Typed Name Signature Signature	Month Day Year
17. Discrepancy 17a. Discrepancy Indication Space Quantity Type Residue Partial Rejection Manifest Reference Number:	Full Rejection
U.S. EPA ID Number	iis.5
The Alternate Facility (or Generator) Facility's Phone: 17c. Signature of Alternate Facility (or Generator)	
18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a Printed/Typed Name Signature Sign	Month Day Year

ands



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602

AUG 1 3 2015

Re: Site Specific Work Plan Request

Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC

UST Permit # 11929

Release reported February 25, 1997

AFVR Report received September 17, 2013

Greenville County

Dear Ms. Mumbauer:

The UST Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the status of the referenced site and the next appropriate scope of work at the site is a comprehensive groundwater sampling event.

The groundwater sampling event should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) revision 2.0 and must be conducted in compliance with all applicable regulations. Groundwater samples should be collected from all monitoring wells, creeks, and drainage ditches associated with the release and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, 8 oxygenates, and EDB. Analyses should be in accordance with Appendix E of the QAPP to include duplicate samples, field and trip blanks. As it has been more than one year since the last sampling event, all wells must be purged prior to sampling. A copy of the Agency QAPP for the UST Management Division is available at http://www.scdhec.gov/environment/docs/QAPP_Rev-2 April2013.pdf

Please have your contractor complete and submit the Site Specific Work Plan and Cost Proposal within thirty (30) days of the date of this letter. The Site Specific Work Plan form can be found at http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that technical and financial preapproval from the Agency must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #11929. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0614, by fax at (803) 898-0673, or by e-mail at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT

Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

cc: Bunnell-Lammons Engineering, Inc, 6004 Ponders Ct, Greenville, SC 29615

Technical File



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

MS INGRID AUTEN C/O ANNIE MUMBAUER BB&T WEALTH MANAGEMENT PO BOX 408 GREENVILLE SC 29602

OCT 2 9 2015



Re: Groundwater Sampling Directive

Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC UST Permit # 11929; CA# 50815 Release #2 reported February 25, 1997 Site Specific Work Plan received October 1, 2015 Greenville County

Dear Ms. Auten:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan (SSWP) submitted on your behalf by Bunnell-Lammons Engineering, Inc. The next appropriate scope of work at the site is a comprehensive groundwater sampling event. All work should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 2.0, Bunnell-Lammons' approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and must be conducted in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/environment/docs/QAPP Rev-2 April2013.pdf.

Groundwater sampling activities at the site should begin immediately upon receipt of this letter. Cost agreement #50815 has been approved for the amount shown on the enclosed cost agreement form for sampling all monitoring wells associated with the referenced release. Groundwater samples should be collected and analyzed for BTEX, naphthalene, MtBE, 1,2 DCA, 8 oxygenates, and EDB.

In accordance with the QAPP, a weekly status report of the project should be provided via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the QAPP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Bunnel-Lammons can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB

Ms. Auten UST #11929 - GWS Directive Page 2

Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note, if unnecessary dilutions are completed resulting in reporting limits of individual chemicals of concern (CoC) in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

The Agency grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the QAPP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference UST Permit # 11929 and Cost Agreement #50815. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0614, by fax at (803) 898-0673, or by e-mail at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT

Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc, 6004 Ponders Ct, Greenville, 29615 (with enc.)

Technical File (with enc.)

Approved Cost Agreement 50815

Facility 11929 FORMER RYDER TERMINAL

BARNESKT

PO Number

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
01 PLAN				
	A1 SITE SPECIFIC WORK PLAN	1 0000	150 00	150.00
04 MOB/DEMOB				
	B1 PERSONNEL	2 0000	423 00	846 00
10 SAMPLE COLLECTION				
	A1 GROUNDWATER (PURGE)	19 0000	60 00	1,140 00
,	D1 GROUNDWATER NO PURGE/DUPLICATE	1 0000	28 00	28 00
L	H1 FIELD BLANK	1 0000	24 60	24 60
11 ANALYSES	, , , , , , , , , , , , , , , , , , ,			
GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22 0000	122 00	2,684.00
	F1 EDB BY 8011	21 0000	45 20	949 20
17 DISPOSAL				·
	AA WASTEWATER	50 0000	0 56	28 00
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0 1200	5,899 80	707 98
25 WELL REPAIR				
	A1 ADDITIONAL COPIES OF REPORT	1 0000	50 00	50 00
		Total Amo	unt	6,607 78

Document Receipt Information

Hard Copy	CD	Email
Date Received	4-13-2016	
Permit Number	11929	
Project Manager	Levin Barnes	
Name of Contractor	BLE	
UST Certification Number		
Docket Number	32 tch	
Scanned		
Description Report of	1 GW Samplis Janu	ary 2016



GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF COMPREHENSIVE GROUNDWATER SAMPLING EVENT -JANUARY 2016

FORMER RYDER TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #50815

Prepared For

Ms. Ingrid Auten C/O Ms. Annie Mumbauer BB&T Wealth Management P.O. Box 408 Greenville, South Carolina 29602

Prepared By

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-0010

April 8, 2016

BLE Project Number J15-1010-21



April 8, 2016

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Management Division 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Mr. Kevin T. Barnes, GIT

Hydrogeologist

Subject: Report of Comprehensive Groundwater Sampling Event – January 2016

Former Ryder Terminal 10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929; CA #50815 BLE Project No. J15-1010-21

Dear Mr. Barnes:

On behalf of BB&T Wealth Management (BB&T), Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated October 29, 2015 and is in accordance with BLE's Site Specific Work Plan (SSWP) submitted on September 28, 2015. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Reid A. Doherty, P.G.
Staff Hydrogeologist
Registered, South Carolina No. 2654
Thomas L. Lammons, P.G
Principal Hydrogeologist

cc: Mr. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 29602.

PHONE (864) 288-1265

(864) 288-4430

Registered, South Carolina No. 893.



Report of Comprehensive Groundwater Sampling Event – January 2016 Former Ryder Terminal UST Permit #11929; CA #50815

BACKGROUND INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by the Mr. Rooter Plumbing and Rainbow International business. This business conducts plumbing and carpet cleaning activities in addition to other cleaning and restoration services.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten (a.k.a Ingrid J. Auten) and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments have been performed at the subject site to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

In an effort to evaluate current groundwater chemicals of concern (CoC) trends at the subject site, the SCDHEC has required a comprehensive groundwater sampling event be conducted. The results of this scope of work are provided herein.

GROUNDWATER SAMPLING								
Date Sampled:	January 28, 2016							
Total Number of Wells Associated with	19	MW-01, MW-02, MW-02D, MW-03R, and						
Site:		MW-04 through MW-18						
Total Number of Wells Sampled:	12	MW-01, MW-02, MW-02D, MW-03R, and						
		MW-05, MW-09, MW-10, MW-12 through						
		MW-14, MW-16, and MW-18						



Report of Comprehensive Groundwater Sampling Event – January 2016 Former Ryder Terminal UST Permit #11929; CA #50815

Total Number of Wells NOT Sampled:	7	MW-04, MW-06, MW-15, and MW-17 (Free-			
		Product) and MW-07, MW-08, and MW-11			
		(Wells Not Accessible / Denied Property			
		Access)			
Receptors Sampled	0	None Associated			
QA / QC Samples	3	1 Duplicate Sample (MW-03R DUP), 1 Field			
		Blank, and 1 Trip Blank			
Total Purge Volume (gallons)	95	Disposal Manifest Included in Appendix A			
Analytical Laboratory	Shealy Er	nvironmental Services, Inc.			
Analytical Methods	EPA Met	hod 8260B and EPA Method 8011			
Free-Phase Petroleum Product	MW-04 (0.08-Feet), MW-06 (0.33-Feet), MW-15 (1.06-			
	Feet), and MW-17 (0.06-Feet)				
Contaminants Exceeding Risk Based	Benzene, Naphthalene, and 1,2-Dibromoethane (EDB)				
Screening Level Concentrations					
Groundwater Level Measurements	See Table	: 1			
Groundwater Sampling Logs and	See Appe	ndix B			
Procedures					
Laboratory Analytical Summary	See Table	e 2A and Table 2B			
Laboratory Analytical Results	See Appe	ndix C			
Potentiometric Map	See Figur	e 2			
CoC Map	See Figur	e 3			

CONCLUSIONS AND RECOMMENDATIONS

Based on current laboratory analytical results the extent of the contamination plume appears to be substantially defined in the horizontal and vertical directions. However, monitoring wells MW-04, MW-06, MW-15, and MW-17 contained measurable thicknesses of free-phase petroleum product. Therefore, we recommend a series of three 96-Hour Aggressive Fluid Vapor Recovery (AFVR) events be conducted on these wells in order to remove free-phase petroleum product from the subsurface and reduce source area CoC concentrations.



Report of Comprehensive Groundwater Sampling Event – January 2016 Former Ryder Terminal UST Permit #11929; CA #50815

Approximately thirty days after the last AFVR event, BLE recommends conducting a comprehensive groundwater sampling event in order to evaluate the effectiveness of the AFVR event, evaluate CoC concentration trends, and monitor plume migration.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten c/o BB&T. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

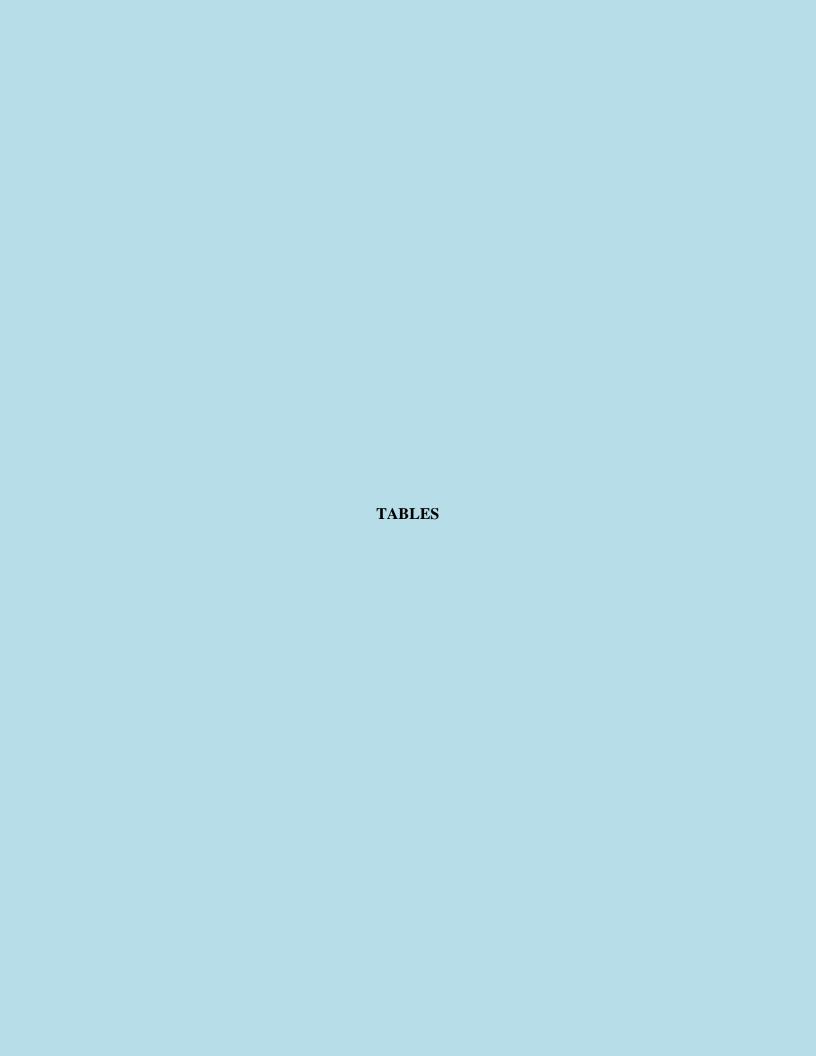


TABLE 1

Monitoring Well and Groundwater Surface Elevation Data

Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #50815 BLE Project No. J15-1010-21

Well Identification	Date Measured	Top of Casing Elevation	Ground Surface Elevation	Free Product Thickness	Groundwater Depth BTOC	Groundwater Elevation	Well Depth	Screened Interval Depth	Screened Interval Elevation
11929-MW01	1/21/2013 1/28/2016	100.70	98.48		29.00 20.01	71.70 80.69	31.0	21.0 - 31.0	77.5 - 67.5
11929-MW02	1/28/2016 1/21/2013 1/28/2016	100.10	100.54		26.90 19.15	73.20 80.95	30.0	20.0 - 30.0	80.5 - 70.5
11929-MW02D	1/23/2010 1/21/2013 1/28/2016	99.29	99.76		28.59	70.70 78.26	54.5	49.5 - 54.5	50.3 - 45.3
11929-MW03	1/21/2013					d December 5, 200	5		
11929-MW03R	1/21/2013* 1/28/2016	99.00	99.57	0.21	26.36 18.78	72.64 80.22	32.4	22.2 - 32.2	77.4 - 67.4
11929-MW04	1/21/2013* 1/28/2016*	102.67	102.91	0.37	26.31 20.03	76.36 82.64	29.5	19.5 - 29.5	83.4 - 73.4
11929-MW05	1/21/2013 1/28/2016	101.48	101.71		26.55 17.62	74.93 83.86	29.0	19.0 - 29.0	82.7 - 72.7
11929-MW06	1/21/2013* 1/28/2016*	101.74	102.12	1.83 0.33	27.85 20.08	73.89 81.66	29.5	19.5 - 29.5	82.6 - 72.6
11929-MW07	1/21/2013 1/28/2016	92.67	92.97		Not Accessible Not Accessible		32.8	22.8 - 32.8	70.2 - 60.2
11929-MW08	1/21/2013 1/28/2016	88.76	88.87		Not Accessible Not Accessible		29.8	19.8 - 29.8	69.1 - 59.1
11929-MW09	1/21/2013 1/28/2016	102.26	102.65		27.35 17.74	74.91 84.52	30.7	20.4 - 30.4	82.3 - 72.3
11929-MW10	1/21/2013 1/28/2016	104.67	104.67		26.35 17.46	78.32 87.21	30.1	19.8 - 29.8	84.9 - 74.9
11929-MW11	1/21/2013 1/28/2016	100.66	100.92		Not Accessible Not Accessible		31.0	20.7 - 30.7	80.2 - 70.2
11929-MW12	1/21/2013 1/28/2016	101.38	101.68		27.85 20.41	73.53 80.97	30.9	20.7 - 30.7	81.0 - 71.0
11929-MW13	1/21/2013 1/28/2016	98.62	98.95		25.80 19.04	72.82 79.58	33.2	23.0 - 33.0	76.0 - 66.0
11929-MW14	1/21/2013 1/28/2016	99.30	99.83		25.85 18.89	73.45 80.41	32.0	21.8 - 31.8	78.0 - 68.0
11929-MW15	1/21/2013* 1/28/2016*	100.39	100.58	0.25 1.06	26.38 18.04	74.01 82.35	33.5	23.3 - 33.3	77.3 - 67.3
11929-MW16	1/21/2013 1/28/2016	102.74	103.03		25.49 17.96	77.25 84.78	34.4	24.2 - 34.2	78.8 - 68.8
11929-MW17	1/21/2013* 1/28/2016*	102.09	102.49	2.90 0.06	27.47 19.97	74.62 82.12	35.0	24.8 - 34.8	77.7 - 67.7
11929-MW18	1/21/2013* 1/28/2016	100.39	100.74	0.40	27.12 19.46	73.27 80.93	35.6	25.4 - 35.4	75.3 - 65.3

NOTES:

Measurements are in feet; elevations are relative to an arbitrary site datum.

BTOC = Below Top of Casing

^{*} = Depth to groundwater measurements have been corrected for the presence of free-product using a density of 0.70 g/cc.

TABLE 2A

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #50815 BLE Project No. J15-1010-21

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	MTBE (µg/L)	Naphthalene (μg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC R	BSL		5	1,000	700	10,000	40	25	0.05	5
	12/13/96		20.6	1.74	2.61	6.4	ND	ND	NT	NT
	2/10/98		ND	ND	ND	ND	ND	ND	ND	NT
	3/29/99 7/5/01		2.6 ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT	NT NT
	1/28/03		ND	ND	ND	ND ND	ND	ND	NT	NT
	2/3/04		ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
11929-MW01	2/23/06		ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07 9/9/08		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT ND
	2/23/09		ND	ND ND	ND	ND	ND ND	ND	0.028	NT
	11/23/09		<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	< 0.020	<5
	1/21/13		<5	<5	<5	<5	<5	<5	<0.020	<5
	1/28/16 12/13/96		<0.21 249	<0.24 22. 5	<0.21 43.5	<0.32 363	<0.23 11.1	<0.14 900	<0.0048 NT	<0.23 NT
	2/10/98	0.70	247	22.3	-1	npled Due to the	1		111	111
	3/29/99	1.25				npled Due to the				
	7/5/01	1.25			Not San	npled Due to the	Presence of Free	e-Product		
	1/28/03	1.92				npled Due to the				
	2/2/04	0.01				npled Due to the				
11929-MW02	1/20/05 2/23/06	0.23	120	ND	6.8	npled Due to the	ND	240	0.33	NT
11727-1111102	5/29/07	0.26	120	ND	-1	npled Due to the			0.33	111
	9/9/08	0.29				npled Due to the				
	2/23/09	0.02			Not San	npled Due to the	Presence of Free	e-Product		
	11/23/09		25.6	<5	<5	41.1J	<5	53.3	0.061	<5
	11/2/11		35.0	<5	<5	16.0	0.59J	110	<0.019	<5
	1/21/13		37.0 25.0	<25 <0.24	<25 <0.21	40.0 33.0	<25 <0.23	59.0	<0.019 0.013 J	<25 <0.23
	2/10/98		2.55	ND	ND	3.21	ND	12.5	ND	NT
	3/29/99		3.47	ND	ND	ND	3.12	4.3	NT	NT
	7/5/01		ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03		1.4	ND	ND	ND	1.2	ND	NT	NT
	2/3/04 1/20/05		ND ND	ND ND	ND ND	ND ND	3.7 ND	ND ND	NT ND	NT NT
	2/23/06		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT
11929-MW02D	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09		1.1	ND	ND	ND	ND	ND	ND	NT
	11/23/09		1.2J	<5 <5	<5 <5	<10 <5	<5 0.68J	<5	<0.020	<5 <5
	11/2/11 1/21/13		2.9J 2.9J	<5	<5	<5	0.68J 0.58J	3.2J <5	<0.019	<5
	1/28/16		<0.21	<0.24	<0.21	<0.32	<0.23	0.57 J	<0.0049	<0.23
	2/10/98		62.5	6.4	19.3	193	ND	106	ND	NT
	3/29/99	0.01				npled Due to the				
11020 MW102	7/5/01	0.04				npled Due to the				
11929-MW03	1/28/03 2/2/04	0.12	NS	NS	Not San	npled Due to the NS	NS	NS	NS	NS
	1/20/05		NS	NS NS	NS NS	NS NS	NS NS	NS NS	NS	NS
	2/23/06					toring Well Aban				
	2/24/06		40.0	ND	ND	81.0	ND	120	0.90	NT
	5/29/07		48.0	ND	ND	109	ND	140	0.51	NT
	9/9/08		23.2	ND	ND Not San	17.7 npled Due to the	ND Presence of Free	63.2	0.44	ND
	2/23/00	0.60								
11929-MW03R	2/23/09 11/23/09	0.60			Not San	npled Due to the	Presence of Free			
11929-MW03R						npled Due to the npled Due to the				
11929-MW03R	11/23/09	0.04			Not San	npled Due to the npled Due to the npled Due to the	Presence of Free	e-Product		
	11/23/09 11/2/11 1/21/12 1/28/16	0.04 0.35	0.42 J	<0.24	Not San Not San <0.21	npled Due to the npled Due to the 0.77 J	Presence of Free Presence of Free <0.23	e-Product e-Product	<0.0049	<0.23
11929-MW03R 11929-MW03R DUP	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16	0.04 0.35 0.21	0.27 J	< 0.24	Not San Not San <0.21 <0.21	npled Due to the npled Due to the 0.77 J 0.41 J	Presence of Free Presence of Free <0.23 <0.23	e-Product e-Product 1.4 J 0.72 J	< 0.0048	< 0.23
	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98	0.04 0.35 0.21	0.27 J 2.2	<0.24 ND	Not San	npled Due to the npled Due to the 0.77 J 0.41 J 150	Presence of Free <0.23 <0.23 ND	e-Product e-Product 1.4 J 0.72 J 186	<0.0048 ND	<0.23 NT
	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16	0.04 0.35 0.21	0.27 J	< 0.24	Not San Not San <0.21 <0.21	npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6	Presence of Free Presence of Free <0.23 <0.23	e-Product e-Product 1.4 J 0.72 J	< 0.0048	< 0.23
	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99	0.04 0.35 0.21	0.27 J 2.2 ND	<0.24 ND ND	Not San Not San <0.21 <0.21 1.73 ND	npled Due to the npled Due to the 0.77 J 0.41 J 150	Presence of Free Presence of Free <0.23 <0.23 ND ND	2-Product 2-Product 1.4 J 0.72 J 186 26.2	<0.0048 ND NT	<0.23 NT NT
	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01	0.04 0.35 0.21	0.27 J 2.2 ND ND	<0.24 ND ND ND	Not San Not San <0.21 <0.21 1.73 ND ND	npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5	Presence of Free <0.23 <0.23 ND ND ND ND	2-Product 2-Product 1.4 J 0.72 J 186 26.2 49.6	<0.0048 ND NT NT	<0.23 NT NT NT
11929-MW03R DUP	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01 1/28/03 2/2/04 1/20/05	0.04 0.35 0.21	0.27 J 2.2 ND ND ND ND ND ND ND ND	<0.24 ND ND ND ND ND ND ND ND ND N	Not San Not	npled Due to the npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5 ND ND ND	Presence of Free <0.23 <0.23 ND ND ND ND ND ND ND ND ND N	2-Product 2-Product 1.4 J 0.72 J 186 26.2 49.6 ND ND ND	<0.0048 ND NT NT NT NT NT NT NT NT	<0.23 NT NT NT NT NT NT NT NT NT N
	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01 1/28/03 2/2/04 1/20/05 5/29/07	0.04 0.35 0.21	0.27 J 2.2 ND ND ND ND ND	<0.24 ND ND ND ND ND ND ND ND	Not San Not San Not San <0.21 <0.21 1.73 ND ND ND ND ND ND ND ND ND N	npled Due to the npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5 ND ND ND ND ND	Presence of Free <0.23 <0.23 ND ND ND ND ND ND ND ND ND N	2-Product 2-Product 1.4 J 0.72 J 186 26.2 49.6 ND ND ND ND ND	<0.0048 ND NT NT NT NT	<0.23 NT NT NT NT NT NT NT
11929-MW03R DUP	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01 1/28/03 2/2/04 1/20/05 5/29/07 9/9/08	0.04 0.35 0.21 0.96	0.27 J 2.2 ND ND ND ND ND ND ND ND	<0.24 ND ND ND ND ND ND ND ND ND N	Not San Not San Not San <0.21 <0.21 1.73 ND ND ND ND ND ND ND ND ND N	npled Due to the npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5 ND ND ND ND ND ND ND npled Due to the	Presence of Free <0.23 <0.23 ND ND ND ND ND ND ND ND ND N	2-Product 2-Product 1.4 J 0.72 J 186 26.2 49.6 ND ND ND ND ND	<0.0048 ND NT NT NT NT NT NT NT NT	<0.23 NT NT NT NT NT NT NT NT NT N
11929-MW03R DUP	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01 1/28/03 2/2/04 1/20/05 5/29/07 9/9/08 2/23/09	0.04 0.35 0.21 0.96 NA	0.27 J 2.2 ND ND ND ND ND ND ND ND	<0.24 ND ND ND ND ND ND ND ND ND N	Not San	npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5 ND ND ND ND ND npled Due to the	Presence of Free <0.23 <0.23 ND ND ND ND ND ND ND ND ND Presence of Free Oncomparison of the presence of Free Oncomparison of the presence of Free Oncomparison of the presence of Free Oncomparison of the presence	P-Product 1.4 J 0.72 J 186 26.2 49.6 ND ND ND ND ND ND ND P-Product	<0.0048 ND NT NT NT NT NT NT NT NT NT	<0.23 NT NT NT NT NT NT NT NT NT N
11929-MW03R DUP	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01 1/28/03 2/2/04 1/20/05 5/29/07 9/9/08	0.04 0.35 0.21 0.96	0.27 J 2.2 ND ND ND ND ND ND ND ND	<0.24 ND ND ND ND ND ND ND ND ND N	Not San	npled Due to the npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5 ND ND ND ND ND ND ND npled Due to the	Presence of Free <0.23 <0.23 ND ND ND ND ND ND Presence of Free 1 Dry Presence of Free Presence of Free Presence of Free Presence of Free Presence of Free	P-Product 1.4 J 0.72 J 186 26.2 49.6 ND ND ND ND ND -Product	<0.0048 ND NT NT NT NT NT NT NT NT NT	<0.23 NT NT NT NT NT NT NT NT NT N
11929-MW03R DUP	11/23/09 11/2/11 1/21/12 1/28/16 1/28/16 2/10/98 3/29/99 7/5/01 1/28/03 2/2/04 1/20/05 5/29/07 9/9/08 2/23/09 11/23/09	0.04 0.35 0.21 0.96 NA 0.47	0.27 J 2.2 ND ND ND ND ND ND ND ND	<0.24 ND ND ND ND ND ND ND ND ND N	Not San	npled Due to the npled Due to the 0.77 J 0.41 J 150 10.6 21.5 ND ND ND ND ND npled Due to the Wel	Presence of Free <0.23 <0.23 ND ND ND ND ND ND Presence of Free I Dry Presence of Free Presence of Free Presence of Free Presence of Free	Product 1.4 J 0.72 J 186 26.2 49.6 ND ND ND ND Product Product	<0.0048 ND NT NT NT NT NT NT NT NT NT	<0.23 NT NT NT NT NT NT NT NT NT N

TABLE 2A

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #50815 BLE Project No. J15-1010-21

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (μg/L)
SC DHEC R	BSL		5	1,000	700	10,000	40	25	0.05	5
	2/10/98		16.5	ND	ND	6.83	ND	33.3	ND	NT
	3/29/99		ND	ND	1.13	6.26	ND	50.2	NT	NT
	7/5/01 1/28/03		ND 25.2	ND 11.5	ND 5.1	ND 32.4	ND ND	ND 5.0	NT NT	NT NT
	2/2/04		23.1	4.0	2.0	8.7	ND	ND	NT	NT
	1/20/05		11.0	ND	ND	ND	ND	ND	ND	NT
11929-MW05	2/23/06		ND	ND	ND	ND	ND	ND	ND	NT
11929-1114403	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09 11/23/09		1.0 <5	5.9 <5	2.8 1.8J	7.8 <10	ND <5	9.7 <5	ND <0.019	NT <5
	11/2/11		0.32J	2.3J	2.4J	3.6J	<5	<5	<0.019	<5
	1/21/13		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/28/16		< 0.21	< 0.24	< 0.21	< 0.32	< 0.23	< 0.14	< 0.0050	< 0.23
	2/10/98		523	1,670	104	434	92.7	409	ND	NT
	3/29/99	1.83					Presence of Free			
	7/5/01 1/28/03	>3.0					Presence of Free			
	2/2/04	2.19					Presence of Free			
	1/20/05	1.72					Presence of Free			
11929-MW06	2/23/06	1.54	-				Presence of Free			
11,2,1,1,1,00	5/29/07	0.63					Presence of Free			
	9/9/08	0.42			Not San		Presence of Free	-Product		
	2/23/09	NA 3.10			Not San		ll Dry Presence of Free	-Product		
	11/2/11	2.90					Presence of Free			
	1/21/13	1.83					Presence of Free			
	1/28/16	0.33			Not San	npled Due to the	Presence of Free	-Product		
	9/15/99		ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01		12.9	ND	ND	11.6	6.8	20.1	NT	NT NT
	1/28/03 2/2/04		6.2 ND	ND ND	ND ND	4.0 ND	3.2	6.0 ND	NT NT	NT NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
11020 MXX/07	2/24/06		ND	ND	ND	ND	ND	ND	ND	NT
11929-MW07	9/9/08		NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09		34.0	ND	ND	40.6	2.8	89.9	0.23	NT
	11/23/09		<5 0.22J	<5 <5	<5 <5	<10 <5	<5 <5	<5 <5	<0.019	<5 <5
	1/2/11	NA	U.22J	< >		ļ	e Access Not Gra	ļ	0.023	<>
	1/28/16	NA					e Access Not Gra			
	9/15/99		ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01		ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03		ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04 1/20/05		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT NT
	2/24/06		ND	ND	ND	ND ND	ND	ND	ND	NT
11929-MW08	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08		NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09		ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09		<5 <5	<5 <5	<5 <5	<10 <5	<5 <5	<5 <5	<0.020 <0.019	<5 <5
	1/2/11	NA	<>>	< 3	-		e Access Not Gra		<0.019	(3)
	1/21/13	NA NA					e Access Not Gran			
	2/3/04		ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06		ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT ND
11929-MW09	9/9/08 2/23/09		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND NT
	11/23/09		<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/21/13		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/28/16		<0.21	<0.24	<0.21	<0.32	<0.23	<0.14	<0.0049	<0.23
	2/2/04		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT
	1/20/05 2/24/06		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT NT
	5/29/07		ND	ND	ND ND	ND ND	ND	ND ND	NT	NT
	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND
11020 NAME	2/23/09		ND	ND	ND	ND	ND	ND	ND	NT
11929-MW10	2/23/09			i		1	<5	<5	< 0.020	<5
11929-MW10	11/23/09		<5	<5	<5	5.4J				
11929-MW10			<5 <5 <5	<5 <5 <5	<5 <5 <5	5.4J <5 2.3J	<5 <5 <5	<5	<0.020 <0.020 <0.019	<5 <5

TABLE 2A

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #50815 BLE Project No. J15-1010-21

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	MTBE (μg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (μg/L)
SC DHEC R	BSL		5	1,000	700	10,000	40	25	0.05	5
	2/2/04		ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06		ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07		NT	NT	NT	NT	NT	NT	NT	NT
11000 3 555/11	9/9/08		NT	NT	NT	NT	NT	NT	NT	NT
11929-MW11	2/23/09		ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09		<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	< 0.020	<5
	1/21/13	NA			No	ot Accessible / Site	e Access Not Grar	nted		
	1/28/16	NA			No	ot Accessible / Site	Access Not Grar	nted		
	2/24/06		ND	ND	ND	ND	6.1	ND	ND	NT
	5/29/07		ND	ND	ND	ND	11.0	ND	NT	NT
	9/9/08		ND	ND	ND	ND	11.8	ND	ND	ND
11929-MW12	2/23/09	NA					l Dry		0.00	
	11/23/09		<5	<5	<5	<10	14.0	<5	<0.02	<5
	11/2/11		<5	<5	<5	<5	18.0	<5	<0.019	<5
	1/21/13		<5 <0.21	<5 <0.24	<5 <0.21	<5 <0.32	15.0 <0.23	<5 <0.14	<0.019	<5 <0.23
	2/24/06			<0.24 ND	<0.21 ND		<0.23 ND			<0.23 NT
	5/29/07		100	ND ND	ND ND	110 199	ND ND	100 170	0.76	NT NT
	9/9/08		77.0	ND	ND	101	ND ND	226	0.162	ND
	2/23/09		23.5	ND	ND	46.2	ND ND	68.1	0.102	NT
11929-MW13	11/23/09		23.6	<5	<5	69.4	<5	58.4	0.46	<5
	11/2/11		34.0	<5	<5	82.0	1.7J	130	0.30	<5
	1/21/13		40.0	<25	<25	81.0	<25	190	0.12	<25
	1/28/16		43.0	<0.24	<0.21	100	0.39 J	130	0.058	<0.23
	2/24/06		160	34.0	480	620	ND	160	0.46	NT
	5/29/07		220	ND	550	700	ND	250	0.26	NT
	9/9/08		82.4	3.81	54.8	67.1	ND	75.0	0.118	ND
11020 3 557/14	2/23/09		175	9.9	303	119.8	1.9	194	0.20	NT
11929-MW14	11/23/09		150	10.5	263	93.8J	<10	81.5	0.084	<10
	11/2/11		36.0	2.0J	65.0	4.3J	<5	29.0	0.013J	<5
	1/21/13		130	<25	360	<25	<25	160	< 0.021	<25
	1/28/16		140	6.2 J	310	8.9 J	<1.2	100	< 0.0048	<1.2
	2/24/06		100	8.0	25.0	160	ND	140	0.54	NT
	5/29/07		190	12.0	21.0	240	ND	390	0.45	NT
	9/9/08	0.29				-	Presence of Free			
11929-MW15	2/23/09	0.13				•	Presence of Free			
	11/23/09	0.90					Presence of Free			
	11/2/11	0.87				*	Presence of Free			
	1/21/13	0.25 1.06				-	Presence of Free Presence of Free			
	2/23/09		ND	ND	ND ND	ND	ND		ND	NT
	11/24/09		<5	ND <5	ND <5	<10	ND <5	ND <5	<0.020	<5
11929-MW16	11/24/09		<5	<5	<5	<5	<5	<5	<0.020	<5
TAKEN MITTIU	1/21/13		<5	<5	<5	<5	<5	<5	<0.019	<5
	1/28/16		<0.21	<0.24	<0.21	<0.32	<0.23	0.98 J	<0.0048	<0.23
	2/23/09	0.79	···	1			Presence of Free			
	11/23/09	2.31				•	Presence of Free			
11929-MW17	11/2/11	1.65				•	Presence of Free			
	1/21/13	2.90				_	Presence of Free			
	1/28/16	0.06					Presence of Free			
	2/23/09	0.45				_	Presence of Free			
	11/23/09	0.11			Not San	npled Due to the	Presence of Free	-Product		
11929-MW18	11/2/11	0.56			Not San	npled Due to the	Presence of Free	-Product		
	1/21/13	0.40			Not San	npled Due to the	Presence of Free	-Product		
	1/28/16		100	0.68 J	2.0 J	82.0	5.5	260	0.13	< 0.23
	1/26/10									
Field Blank	1/28/16	NA	< 0.21	< 0.24	< 0.21	< 0.32	< 0.23	< 0.14	< 0.0048	< 0.23

Notes:

μg/liter = micrograms/liter = approximate Parts Per Billion (ppb) **Bold** values indicate detections over the laboratory method detection limit.

Shaded cells indicate values exceeding the RBSL.

NA = Not Applicable ND = Not Detected at the Method Detection Limit

NT = Not Tested

NS = Not Sampled NE = RBSL has not been established

RBSL = Risk Based Screening Level

 $J=J-flagged\ result.\ The\ concentration\ was\ detected\ between\ the\ laboratory\ method\ detection\ limit\ and\ the\ laboratory\ reporting\ limit.\ This\ concentration\ should\ be\ considered\ approximate.$

 $MTBE = Methyl\ tertiary\ butyl\ ether$

EDB = 1,2-Dibromoethane 1,2-DCA = 1,2-Dichloroethane

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates Former Ryder Truck Terminal Greenville, Greenville County, South Carolina

UST Permit #11929; Cost Agreement #50815 BLE Project No. J15-1010-21

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L)
SC DHEC R	BSL	128	240	NE	1,400	150	10,000	47	NE
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
11929-MW01	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	< 0.25	<1.5	<0.66	<2.3	<0.26	<19	< 0.13	<1.5
	2/23/09	10	100			Presence of Free-l		10	100
11929-MW02	11/23/09	<10 <10	<100 <20	<50 <5	<100 <20	<5 <5	<200 <100	<10	<100 <20
11929-11111102	1/21/13	<50	<100	<25	<100	<25	<500	<5	<100
	1/28/16	<0.25	<1.5	<0.66	8.9 J	<0.26	<19	<0.13	<1.5
	2/23/09	NT	70.5	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
11929-MW02D	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	< 0.13	<1.5
11929-MW03	2/23/06				Well Ab	andoned			
	2/23/09			Not San	npled Due to the	Presence of Free-l	Product		
	11/23/09					Presence of Free-l			
11929-MW03R	11/2/11				_	Presence of Free-l			
	1/21/13	0.27	1.7		, -	Presence of Free-l		0.10	
11020 MW02D DUD	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
11929-MW03R DUP	1/28/16 2/23/09	< 0.25	<1.5	< 0.66	<2.3 Well	<0.26	<19	<0.13	<1.5
	11/23/09			Not San		Presence of Free-l	Product		
11929-MW04	11/2/11				•	Presence of Free-l			
11929 1/11/101	1/21/13				•	Presence of Free-l			
	1/28/16				•	Presence of Free-l			
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
		<10	<20	<5	<20	<5	<100	<1	<20
11929-MW05	11/2/11			_	<20	<5	-100	<1	<20
11929-MW05	11/2/11 1/21/13	<10	<20	<5	<20	< >	<100	<1	\20
11929-MW05			<20 <1.5	<5 <0.66	<2.3	< 0.26	<19	<0.13	<1.5
11929-MW05	1/21/13 1/28/16 2/23/09	<10		<0.66	<2.3 Well	<0.26	<19		
	1/21/13 1/28/16 2/23/09 11/23/09	<10		<0.66 Not San	<2.3 Well	<0.26 Dry Presence of Free-I	<19 Product		
11929-MW05 11929-MW06	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11	<10		<0.66 Not San	<2.3 Well npled Due to the npled Due to the	<0.26 Dry Presence of Free-I	<19 Product Product		
	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11 1/21/13	<10		<0.66 Not San Not San Not San	<2.3 Well replied Due to the replied Due	<0.26 Dry Presence of Free-l Presence of Free-l	<19 Product Product Product		
	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11 1/21/13 1/28/16	<0.25	<1.5	<0.66 Not San Not San Not San Not San	<2.3 Well npled Due to the npled Due to the npled Due to the npled Due to the npled Due to the	<0.26 Dry Presence of Free-l Presence of Free-l Presence of Free-l	<19 Product Product Product Product	<0.13	<1.5
	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11 1/21/13 1/28/16 2/23/09	<10 <0.25	<1.5 NT	<0.66 Not San Not San Not San Not San Not San	Velonized Due to the mpled Due to the mpled Due to the mpled Due to the mpled Due to the MT	<0.26 Dry Presence of Free-l Presence of Free-l Presence of Free-l NT	<19 Product Product Product Product Product NT	<0.13	<1.5
	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11 1/21/13 1/28/16 2/23/09 11/23/09	<10 <0.25	<1.5 NT <100	<0.66 Not San Not San Not San Not San Not San Not San Not San	<2.3 Well inpled Due to the in	<0.26 Dry Presence of Free-l Presence of Free-l Presence of Free-l NT <5	<19 Product Product Product Product NT <200	<0.13 NT <10	<1.5 NT <100
11929-MW06	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11 1/21/13 1/28/16 2/23/09	<10 <0.25	<1.5 NT	<0.66 Not San Not San Not San Not San Not San > Not San > Not San > Not San > Not San > Not San > Not San > Not San > Not San > Not San	Velocities with the second	<0.26 Dry Presence of Free-l Presence of Free-l Presence of Free-l NT	<19 Product Product Product Product NT <200 <100	<0.13	<1.5
11929-MW06	1/21/13 1/28/16 2/23/09 11/23/09 11/2/11 1/21/13 1/28/16 2/23/09 11/23/09 11/2/11	<10 <0.25	<1.5 NT <100	<0.66 Not Sam Not Sam Not Sam Not Sam Not Sam > Not Sam N	Velocities and the second s	<0.26 Presence of Free-Presence of Free	<19 Product Product Product Product NT <200 <100 ed	<0.13 NT <10	<1.5 NT <100
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TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates Former Ryder Truck Terminal **Greenville, Greenville County, South Carolina** UST Permit #11929; Cost Agreement #50815 BLE Project No. J15-1010-21

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (μg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L)				
SC DHEC F	RBSL	128	240	NE	1,400	150	10,000	47	NE				
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT				
	11/23/09	<20	<200	<100	<200	<10	<400	<20	<200				
11929-MW14	11/2/11	<10	<20	<5	22.0	<5	<100	<1	<20				
	1/21/13	< 50	110	<25	<100	<25	< 500	<5	<100				
	1/28/16	<1.3	130	<3.3	19 J	<1.3	<96	< 0.65	<7.5				
	2/23/09			Not San	npled Due to the	Presence of Free-	Product						
	11/23/09	Not Sampled Due to the Presence of Free-Product											
11929-MW15	11/2/11		Not Sampled Due to the Presence of Free-Product										
	1/21/13	Not Sampled Due to the Presence of Free-Product											
	1/28/16	Not Sampled Due to the Presence of Free-Product											
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT				
	11/23/09	<10	<100	< 50	<100	<5	<200	<10	<100				
11929-MW16	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20				
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20				
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	< 0.13	<1.5				
	2/23/09			Not San	npled Due to the	Presence of Free-	Product						
	11/23/09			Not San	npled Due to the	Presence of Free-	Product						
11929-MW17	11/2/11			Not San	npled Due to the	Presence of Free-	Product						
	1/21/13			Not San	npled Due to the	Presence of Free-	Product						
	1/28/16			Not San	npled Due to the	Presence of Free-	Product						
	2/23/09			Not San	npled Due to the	Presence of Free-	Product						
	11/23/09												
11929-MW18	11/2/11			Not San	npled Due to the	Presence of Free-	Product						
	1/21/13			Not San	npled Due to the	Presence of Free-	Product						
	1/28/16	< 0.25	9.4 J	< 0.66	18 J	1.1 J	<19	< 0.13	<1.5				
Field Blank	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	< 0.13	<1.5				
Trip Blank	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	< 0.13	<1.5				

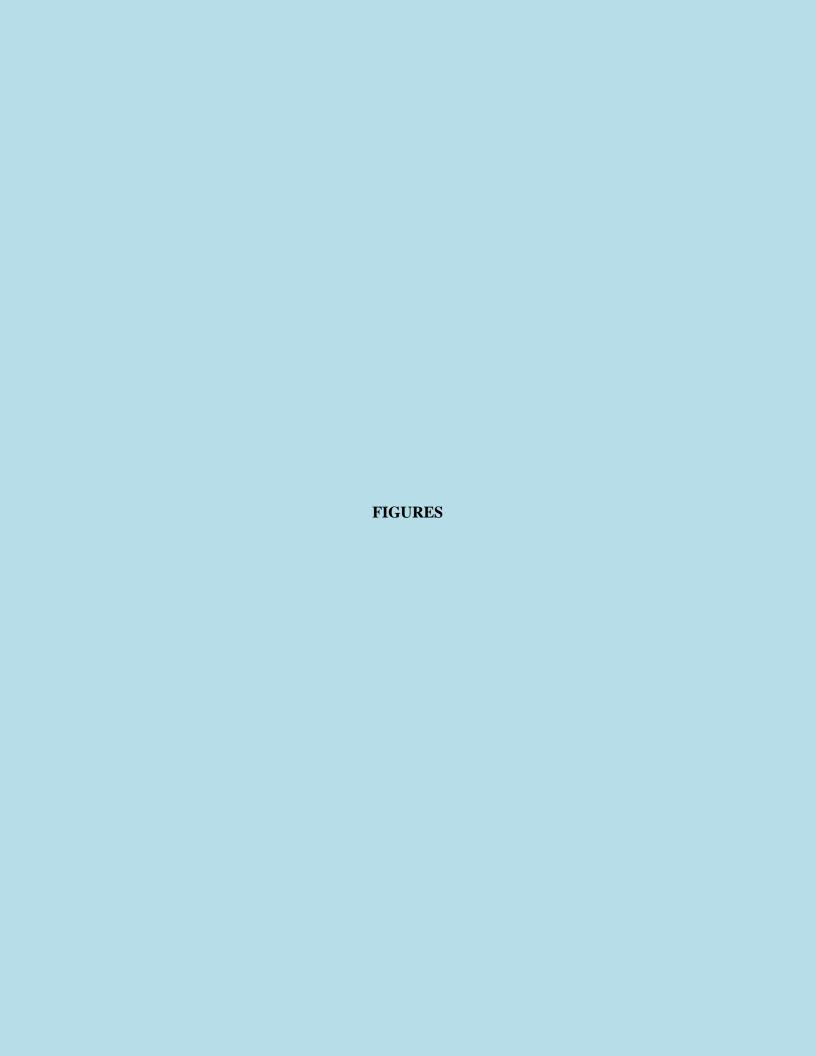
μg/liter = micrograms/liter = approximate Parts Per Billion (ppb) **Bold** values indicate detections over the laboratory method detection limit.

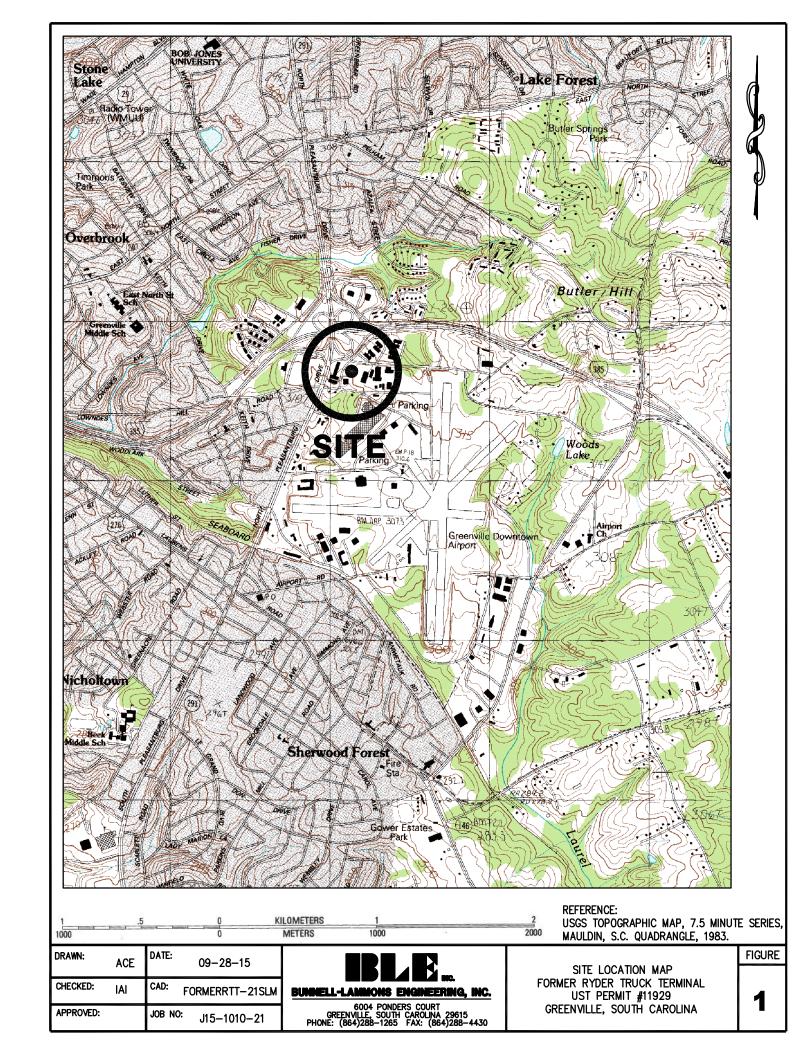
Shaded cells indicate values exceeding the RBSL.

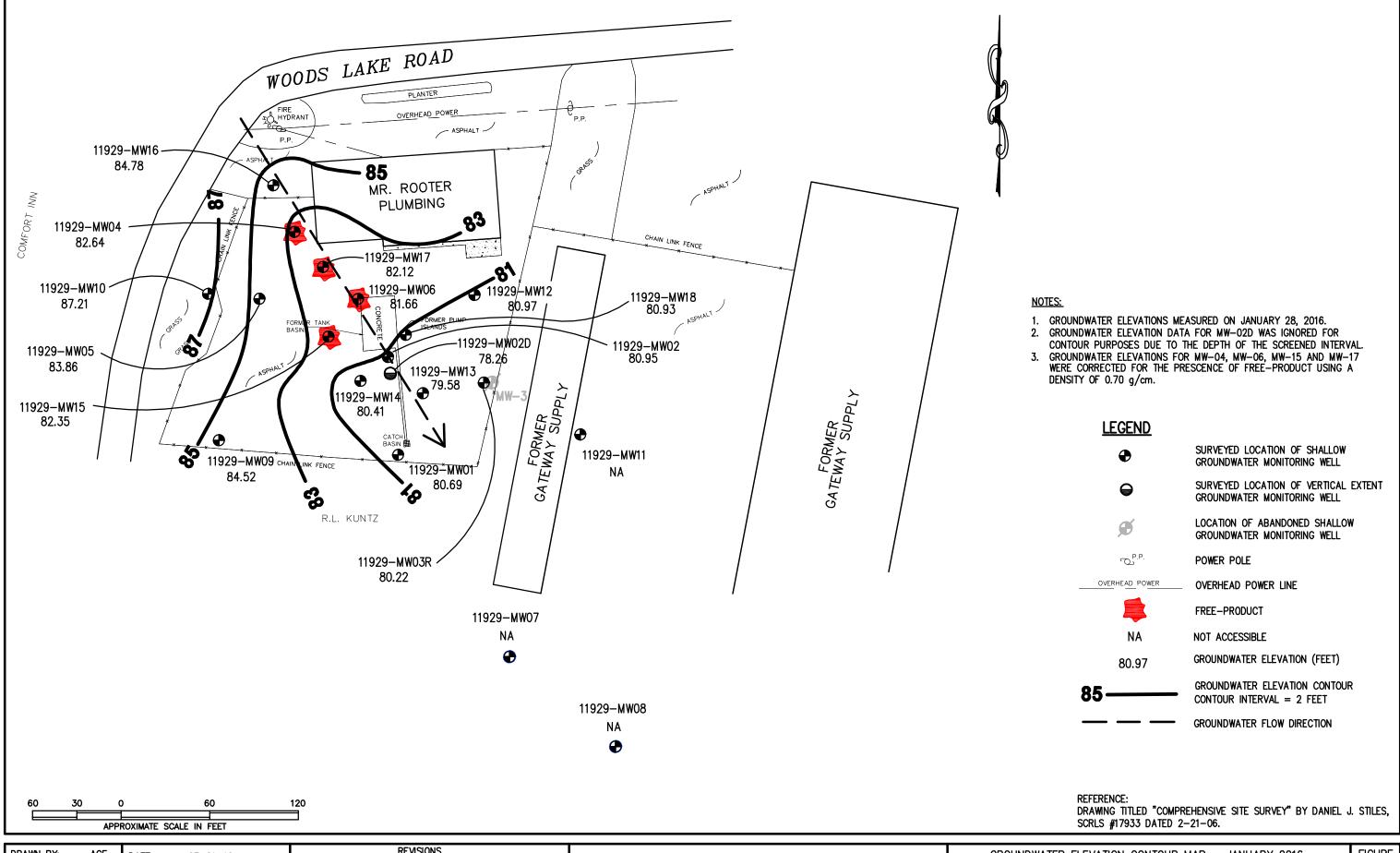
ND = Not Detected at the Method Detection Limit

NT = Not Tested

NE = RBSL has not been established
RBSL = Risk Based Screening Level
* - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.
The well was abandoned on 12/5/05.







DRAWN BY:	ACE	DATE:	03-21-16		REVISIONS	
		DATE.	05-21-10	No.	DESCRIPTION	BY
CHECKED BY:	RAD	FILE:	FORMERRTT-21WTM			
APPROVED BY:		JOB NO:	J150-1010-21			

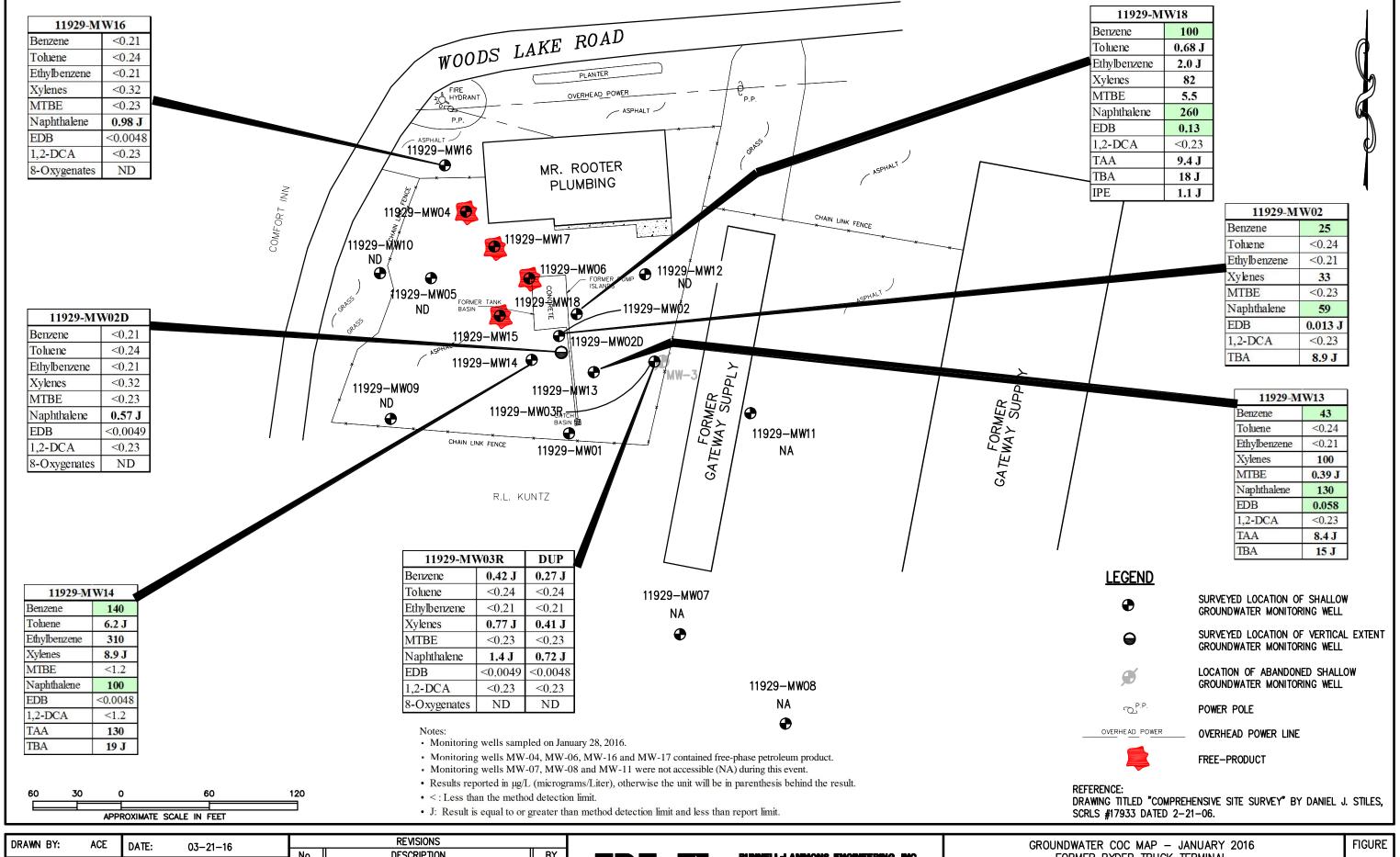


BUNNELL-LAMMONS ENGINEERING, INC.

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

GROUNDWATER ELEVATION CONTOUR MAP — JANUARY 2016
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE



DRAWN BY:	ACE DATE:		DATE: 03-21-16		REVISIONS				
		DATE.	00-21-10	No.	DESCRIPTION	BY			
CHECKED BY:	RAD	FILE:	FORMERRTT-21GWCOC						
ADDDOVED DV:		IOD NO.	WEO 4040 04						
APPROVED BY:	VED BY: JOB NO:		J150-1010-21						



BUNNELL-LAMMONS ENGINEERING, INC.

6004 PONDERS COURT
GREENVILLE, SOUTH CAROLINA 29615
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GROUNDWATER COC MAP — JANUARY 201 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 10 WOODS LAKE ROAD GREENVILLE, SOUTH CAROLINA

3



APPENDIX A DISPOSAL MANIFESTS



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Pag	e 1 of 3. Emergency Res	oonse Phone	4. Waste T	racking Nu	imber	و- ا
Generator's Name and Ma	BUNNELL-LAMMON EN 6004 PONDERS COURT GREENVILLE, SO 2961	1	1500 EA	Idress (if different the FUELS SHEL ST GREENVI SON, SC 296.	L USTO070 LLE STREE	7		
enerator's Phone: 354-28 Transporter 1 Company N	ame				U.S. EPA ID	Number	-	 · - ·
Transporter 2 Company N	BLE ame				U.S. EPA ID	Number		
Designated Facility Name	305 S. MAIN STREE MAULDIN, SC 2966	ET			U.S. EPA ID		:CR00075246	 38
acility's Phone: 854-952			10.0	Containers	11. Total	12. Unit		
9. Waste Shipping Na	•		No.	Туре	Quantity	Wt./Vol.	-	***
1. NON HAZ N WELL WAT #11312	ER /	3320 Sout 3320 Sout UST H 12	Pe wites		68	6	W	
2.	Cisart.	is Purk	4 02739		Jun 1	6	7, 21, 21, 22	
3.	1				95	G		
4.	2.3		ger transact		di S	()		
. Special Handling Instructi	ions and Additional Information	- 6. 122. 123.	in to see		17.0			, u gol
. GENERATOR'S/OFFERO marked and labeled/place enerator's/Offeror's Printed/	DR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper condition of the cond	ne contents of this consign	ment are fully and accurate	y described above	by the proper sl	nipping nam	ne, and are class	Day
GENERATOR'S/OFFERC	DR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper condition of the cond	ne contents of this consignion for transport according	ment are fully and accurate to applicable international a Signature	y described above nd national govern	by the proper sl	nipping nam		
GENERATOR'S/OFFERC marked and labeled/place anerator's/Offeror's Printed/ in International Shipments ansporter Signature (for ex	DR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper conditionally for the latter of the latte	ne contents of this consignion for transport according	ment are fully and accurate to applicable international a Signature	y described above	by the proper sl	nipping nam		Day
GENERATOR'S/OFFERC marked and labeled/place anerator's/Offeror's Printed/ in International Shipments ansporter Signature (for ex	OR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper condition. Typed Name Import to U.S. ports only): nent of Receipt of Materials	ne contents of this consignion for transport according	ment are fully and accurate to applicable international a Signature	y described above nd national govern	by the proper simental regulation	nipping nam		Day
GENERATOR'S/OFFERC marked and labeled/place enerator's/Offeror's Printed/ in International Shipments ansporter Signature (for ext in Transporter Acknowledgransporter 1 Printed/Typed I	OR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper conditionary of the	ne contents of this consignion for transport according	ment are fully and accurate to applicable international a Signature from U.S. Port Date	y described above nd national govern of entry/exit: leaving U.S.:	by the proper simental regulation	nipping nam	Month	Day
GENERATOR'S/OFFERC marked and labeled/place enerator's/Offeror's Printed. i. International Shipments ansporter Signature (for exp. i. Transporter Acknowledgransporter 1 Printed/Typed I	DR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper conditionaries. Typed Name Import to U.S. ports only): ment of Receipt of Materials Name	ne contents of this consignion for transport according	ment are fully and accurate to applicable international a Signature from U.S. Port Date Signature	y described above nd national govern of entry/exit: leaving U.S.:	by the proper simental regulation	nipping names.	Month A	Day Day
GENERATOR'S/OFFERC marked and labeled/place enerator's/Offeror's Printed/ place and the second second second in International Shipments ansporter Signature (for ext.). Transporter Acknowledgr ansporter 1 Printed/Typed I	DR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper conditionary of the	ne contents of this consign on for transport according t	ment are fully and accurate to applicable international a Signature from U.S. Port Date Signature	y described above and national government of entry/exit:	by the proper sign mental regulation	nipping names.	Month A	Day Day Day
GENERATOR'S/OFFERC marked and labeled/place enerator's/Offeror's Printed/ international Shipments ansporter Signature (for ext international Shipments ansporter Acknowledge ansporter 1 Printed/Typed I	DR'S CERTIFICATION: I hereby declare that the arded, and are in all respects in proper conditional content of Name Import to U.S. ports only): ment of Receipt of Materials Name Space Quantity	ne contents of this consign on for transport according t	ment are fully and accurate to applicable international a Signature from U.S. Port Date Signature Residue	y described above and national government of entry/exit:	by the proper simental regulation	nipping names.	Month A	Day Day Full Rejection

APPENDIX B

MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND MONITORING WELL PURGING AND SAMPLING LOGS



APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

The monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services, Inc. in Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on January 28, 2016.

	Quality A	Assurance	
pH Sensor:	Oakton 35630-62	Conductivity	35630-32
		Sensor:	
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	Turbidity:	1.0-10.0 NTU
	Chain of	f Custody	
Michael W.	1/29/16:1048	Shealy	1/29/16 : 1048
Parks			



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date ////// Field Personnel				Well #	MW-1				
	X			Well Diameter (D)	(<u>Q</u>)	2	inch of	31.00	feet(ft)
Ambient Air Temperature (°F)				conversion fac	conversion factor (C): 3.143*(D/2)^2	1/2/^2	Í		
	,				for a 2 inch well $C = 0.163$; = 0.163			
Facility Name: Former Ryder Truck Terminal	Site ID #:	11	11929		for a 4 inch well C = 0.652	: = 0.652			
				*Free Product Thickness	Thickness	!	NA		
Quality Assurance	surance			Total Well Depth (TWD)	th (TWD)		31.00 ft		
				Depth to Groun	Depth to Groundwater (DGW)		20.01 ft		
or: Oak	Conductivity Sensor:		35630-32	Length of Wate	Length of Water Colum (LWC = TWD-DGW)	TWD-DGW)	•	0.99	#
serial no. 324976	serial no.	357	324976	1 Casing Volur	1 Casing Volume (LWC*C) =	:	= 71. X	7.00.	gals
pH =4.0	Standard	15	15,000	3 Casing Volumes = 3	nes=3 X		1	5.66	gals
pH = 7.0	Standard	1,	1,413		•	(Standard Purge Volume)	Volume)		
pH = 10.0	Standard	4	447		•	ò			
DO Meter YSI 60	Standard	3	84						
Standard 0% cal	Turbidity:	1.0-10	1.0-10.0 NTU						
Chain of Custody	<u>ustody</u>			Total Volume o	Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch. samplin	3efore Sampling /8 inch. samplir	Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch. sampling will not be required	bell	_gals
Relinquished by Date/Time	Received by	red by	Date/Time	-			0	j	
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)			2.2	0 ' h	7.9				
Time (military)		1040	2401	0801	1084				
pH (s.u)		5.20	81.3	\$1.17	5.14				
Specific Conductivity		187.9	182.	5/81	181.1				
Water Temperature (°C)		18.9	19.7	20.2	20.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	, cloudy)	4.79	18.6	10.07	9.94				
Dissolved Oxygen (mg/l)		1.7	8')	8.1	8'1				
					<u>.</u>				
Remarks:									
will sampled	(B)	4501	an /	128/16.					



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I Data Information Sheet for Ground Water Sampling	vision of Underground Storage Tank Management

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Well # MW-2 Well Diameter (D) 2 inch of source (ft) conversion factor (C): 3.143*(D/2)*2	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 *Free Product Thickness Total Well Donth (TWD)	Depth to Groundwater (DGW) 230-32 Length of Water Colum (LWC = TWD-DGW) 1 Casing Volumes = 3 X 3 Casing Volumes = 3 X (Standard Purge Volume	Total Volume of Water Purged Before Sampling *If free product is present over 1/8 inch, sampling will not be required. Date/Time	st Vol. 2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sample 2.9 4.2 1.4 9 1.
Date 1/48/16 Neld Personnel Neather Conditions \$4117 Ambient Air Temperature (°F)	Facility Name: Former Ryder Truck Terminal Site ID #: 11929 Quality Assurance	ductivity Sensor: 1 no. 324976 dard 15,000 dard 447 dard 447 dard 84 dard 84 dard 1.0-10.0 N	Chain of Custody Relinquished by Date/Time Received by Date/	Initial 1st Vol. Volume Purged (gallons) Time (military) PH (s.u) Specific Conductivity Water Temperature (°C) Turbidity (subjective: clear, slightly cloudy) Turbidity (subjective: clear, slightly cloudy, cloudy) Solution Turbidity (subjective: clear, slightly cloudy) Solution Solutio



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling **Division of Underground Storage Tank Management**

					Page 1	o	-
Date 1/41/16				Well# MW-2D			
Field Personnel	MAK						
General Weather Conditions	Luths			Well Diameter (D)	2 inch of	of 54 50	foot(ft)
Ambient Air Temperature (°F)	1.9			conversion factor (C): 3.143*(D/2)^2			İ
		:		for a 2 inch well C = 0.163	63		
racility name: Former Kyder I ruck Terminal	Iruck Terminal	Site ID #:	11929	for a 4 inch well C = 0.652	52		
				*Free Product Thickness	AN	A #	
	Quality Assurance	rance		Total Well Depth (TWD)	54.50	50 #	
				Depth to Groundwater (DGW)	0.16		
pH Sensor: Oakton 3	Oakton 35630-62	Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)		33.47	7 #
serial no. 324	324976	serial no.	324976	1 Casing Volume (LWC*C) =	X .17	"	sled
pH =4.0	4.0	Standard	15,000	3 Casing Volumes = 3 X			sleb
7 pH = 7.0	7.0	Standard	1,413	•	(Standard Purge Volume)		
pH = 10.0	10.0	Standard	447	•	•		
DO Meter YSI	YSI 60	Standard	84				_
Standard 0% cal	cal	Turbidity:	1.0-10.0 NTU				
	Chain of Custody	stody		Total Volume of Water Purged Before Sampling	Sampling		ole C
		•		*If free product is present over 1/8 inch. sampling will not be required	h. sampling will no	t be required	Sign A
Relinquished by	Date/Time	Received by	Date/Time		0		

	initial	1St Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		6.0	12.0	(2.5				
Time (military)	1148	C 811	9511	1200				
pH (s.u)	11.9	60 3	40.9	6.05				
Specific Conductivity	(d 6, 7	8.3 h l	4.341	1.9 h1				
Water Temperature (°C)	14.6	/ط.ه	a 0.8	21.8				
Turbidity (subjective: clear, slightly cloudy, cloudy)	الم الم	4.74	- <u>*</u> -	18.6				
Dissolved Oxygen (mg/l)	١,٣	١٠٤	2.1	2.1				

Remarks:

Sampled

1900

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Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Page 1 of

Well # MW-3R Well Diameter (D) 2 inch of 32.40 feet(ft) conversion factor (C): 3.143*(D/2)^2 feet (ft) feet (ft)	for a 4 inch well C = 0.163 for a 4 inch well C = 0.652 *Free Product Thickness	Depth to Groundwater (DGW) $\frac{16.2 \cdot y}{1.6 \cdot x}$ ft Length of Water Colum (LWC=TWD-DGW) $\times .17 = \frac{1.6 \cdot x}{2.3 \cdot x}$ gals 3 Casing Volumes = 3 \times $= \frac{1.6 \cdot x}{1.6 \cdot x}$ gals (Standard Purge Volume)	Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch, sampling will not be required."	2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sample	1008 1012	8.71 8.70 64.7 64.5	14.1 9.9/	
Date I / d &// l b m w/ Field Personnel m w/ General Weather Conditions h w/ Ambient Air Temperature (°F) 6 t	Facility Name: Former Ryder Truck Terminal Site ID #: 11929 Quality Assurance	07:	Standard Turbidity: Chain of Custody	Initial 1st Vol.	Purged (gallons)	Specific Conductivity 6.79 8.79 8.79 8.79 8.79 8.79 8.79 8.79 8	ar, slightly cloudy, cloudy) 7.9 / / /	Remarks: Put An & 1011 on 1/48/16

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Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date		Well #				
Field Personnel			1			
General Weather Conditions		Well Diameter (D)	2	inch of	29 50	foot(ft)
Ambient Air Temperature (°F)		conversion factor (C): 3.143*(D/2)^2		 		(u)
		for a 2 inch	for a 2 inch well C = 0.163			
Facility Name: Former Ryder Truck Terminal Site ID #: 11929		for a 4 inch	for a 4 inch well C = 0.652	80.0		
A 7,11-1-0		*Free Product Thickness	•	.0.97 ft		
Quality Assurance		Total Well Depth (TWD)	•	29.50 ft		
		Depth to Groundwater (DGW)	(MS	2009 A	;	
pH Sensor:		Length of Water Colum (LWC = TWD-DGW)	WC = TWD-DGW)		12.6	=
serial no.		1 Casing Volume (LWC*C) =	= (1.60	dals
pH =4.0 Standard		3 Casing Volumes = 3	 		4.80	Sieg
pH = 7.0 Standard		1	(Standard Purge Volume)	Volume)		
pH = 10.0						
DO Meter Standard						
Standard Turbidity:						
Chain of Custody		Total Volume of Water Purged Before Sampling	rged Before Sampling			gals
Relinquished by Date/Time Received by	Date/Time	ii iree product is present over 1/8 inch, sampling will not be required.	over 1/6 inch, samplin	ig will not be requir	.ed.	
Initial	1st Vol.	2nd Vol. 3rd Vol.	. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)						
Time (military)						
pH (s.u)						
Specific Conductivity						
Water Temperature (°C)						
Turbidity (subjective: clear, slightly cloudy, cloudy)						
Dissolved Oxygen (mg/l)						
Remarks: VC 4 not sample 1 dyp	dup to FPT 20,0	, 10,01				



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date ///8///					Well #	MAA/ E					
Field Personnel	my				! !	2					
General Weather Conditions	Sunny				Well Diameter (D)	(Q)	7	inch of	29.00	feet(ft)	
Ambient Air Temperature (°F)	09				conversion fact	conversion factor (C): 3.143*(D/2)^2	J/2)^2			(1)	-
Facility Name: Former Ryder Truck Terminal	Terminal	Sign Cl	-	11000	4	for a 2 inch well C = 0.163	5 = 0.163				
					*Free Product Thickness	Thickness	760.0 - 7	δ.	4		_
	Quality Assurance	Irance			Total Well Depth (TWD)	th (TWD)			ــو د		_
					Depth to Grour	Depth to Groundwater (DGW)		12.62	سور د		:::
pH Sensor: Oakton 35630-62	-62	Conductivity Sensor:	ensor:	35630-32	Length of Wate	Length of Water Colum (LWC = TWD-DGW)	: TWD-DGW)		1.30	#	
serial no. 324976		serial no.		324976	1 Casing Volun	1 Casing Volume (LWC*C) =		_ = 71. X	195	 dals	
pH =4.0		Standard	15,	15,000	3 Casing Volumes = 3 X	_ X E=3m			67.5	gals	_
pH = 7.0		Standard	1,4	1,413		•	(Standard Purge Volume)	. Volume)		,	
pH = 10.0		Standard	4	447							
DO Meter YSI 60		Standard	8	84							_
Standard 0% cal		Turbidity:	1.0-10	1.0-10.0 NTU							
	Chain of Custody	stody			Total Volume c	Total Volume of Water Purged Before Sampling	Before Sampline	ו		gals	
Relinauished by	Date/Time	Received hv	Pd by	Date/Time	"If free product	is present over	1/8 inch, samplii	"If tree product is present over 1/8 inch, sampling will not be required.	ired.		
								53.00			-
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample	_
Volume Purged (gallons)			l	0,0	0 1	6.0					_
Time (military)			1255	1359	1703	1061					_

Remarks:

uill sampled as 1907

20.9

0.0

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

6.00



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Underground Storage Tank Management	
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Date	Well #	MW-6			
Field Personnel					· · ·
General Weather Conditions	Well Diameter (D)	2	inch of	29.50 fe	foot(ft)
Ambient Air Temperature (°F)	conversion factor (conversion factor (C): 3.143*(D/2)^2			(11)
	for a	for a 2 inch well C = 0.163			
Facility Name: Former Ryder Truck Terminal Site ID #: 11929	for a	for a 4 inch well C = 0.652	0.33		-
	*Free Product Thickness	kness	60-1	#	
Quality Assurance	Total Well Depth (TWD)	TWD)	29.50	ŧ	
	Depth to Groundwater (DGW)	ater (DGW)	20.31	\$ \$	
pH Sensor:	Length of Water C	Length of Water Colum (LWC = TWD-DGW)		7.17 H	
serial no.	1 Casing Volume (LWC*C) =	LWC*C) =	x .17 =	95.1	gals
pH =4.0	3 Casing Volumes = 3	=3 ×		4.68	gals
pH = 7.0 Standard		(Standard Purge Volume)	. Volume)		
pH = 10.0		,			
DO Meter Standard					
Standard Turbidity:					
Chain of Custody	Total Volume of W	Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch. sampling will not be required."	g		gals
Relinquished by Date/Time Received by Date/Time			, and an an an an an an an an an an an an an		
Initial 1st Vol.	2nd Vol.	3rd Vol. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	_	-			
Time (military)					
pH (s.u)					
Specific Conductivity					
Water Temperature (°C)					
Turbidity (subjective: clear, slightly cloudy, cloudy)					
Dissolved Oxygen (mg/l)					
Remarks: Well not sampled due to El	to FPT 7001"				
		-			



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date			Well # MW-7				
rieid Personnei							
General Weather Conditions			Well Diameter (D)	inch of	32.80	fact/ft)	
Ambient Air Temperature (°F)		1	C): 3.143*(D/2)^2	5	25:30	ן יפפונוין	
			for a 2 inch well C = 0.163				_
Facility Name: Former Ryder Truck Terminal	al Site ID #:	11929	for a 4 inch well C = 0.652				
			*Free Product Thickness	¥ Z	. #		_
Qualit	Quality Assurance		Total Well Depth (TWD)	32.80	=		=
			Depth to Groundwater (DGW)		=		
pH Sensor:	Conductivity Sensor:		Length of Water Colum (LWC = TWD-DGW)			4	
serial no.	serial no.		1 Casing Volume (LWC*C) =	. = 71. X		<u> </u>	_
DH =4.0	Standard		3 Casing Volumes = 3 X			2 4 6 C	_
. 0.7 = Ho	Standard		(Standard Purge Volume)	. Volume)		3 3 7	
oH = 10.0	Standard						===
DO Meter	Standard						-
Standard	Turbidity:						-
							===
Chair	Chain of Custody		Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch sampling will not be required) or will not be red	ired	gals	
Relinquished by Date/Time	ne Received by	Date/Time		,	5		
							1

Sample

Post

5th Vol.

4th Vol.

3rd Vol.

2nd Vol.

1st Vol.

Initial

well not accessible

Remarks:

Turbidity (subjective: clear, slightly cloudy, cloudy)
Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

Volume Purged (gallons)

Time (military)

pH (s.u)



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Manager

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	ivision of Underground Storage Tank Management	
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Date				Well #	MW-8			
Field Personnel				1				
General Weather Conditions	ditions			Well Diameter (D)	2)	inch of	29.80	foot(ft)
Ambient Air Temperature (°F)	ure (°F)			conversion facto	(C): 3.143*(D/2)^2			(1)
				Q.	for a 2 inch well C = 0.163			
Facility Name: For	Former Ryder Truck Terminal	Site ID #:	11929	\$	for a 4 inch well C = 0.652			
				*Free Product Thickness	hickness	NA	#	
	Quality Assurance	urance			(TWD)	29.80	ŧ	
				Depth to Groundwater (DGW)	Iwater (DGW)		.≠	
pH Sensor:		Conductivity Sensor:	Ľ	Length of Water	Length of Water Colum (LWC = TWD-DGW)			*
serial no.		serial no.		1 Casing Volume (LWC*C) =	e (LWC*C) =	× .17 =		gals
pH =4.0		Standard		3 Casing Volumes = 3	es = 3 ×			gals
pH = 7.0		Standard			•	(Standard Purge Volume)		
pH = 10.0		Standard				ì		
DO Meter		Standard						
Standard		Turbidity:						
	Chain of Custody	<u> Xpotsr</u>		Total Volume of	Total Volume of Water Purged Before Sampling	pling		gals
Relinquished by	by Date/Time	Received by	Date/Time				-fall ed.	
		п	Initial 1st Vol.	2nd Vol.	3rd Vol. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	tallons)							
Time (military)								
pH (s.u)								
Specific Conductivity	vity							
Water Temperature	re (°C)							
Turbidity (subjecti	Turbidity (subjective: clear, slightly cloudy, cloudy)	cloudy)						
Dissolved Oxygen (mg/l)	(mg/l)							
Nelliains.)]2/	not access,	14.					



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Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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#: 11929 vity Sensor: 35630-32 324976 15,000 1,413 447 84 84 1.0-10.0 NTU	A11-6 A11-6 General Weather Conditions Elited Personnel A11-6 General Weather Conditions Elited Personnel El	Well Plameter (D) 2 inch of sourcesion factor (C): 3.143*(D/2)*2 inch of sourcesion factor (C): 3.143*(D/2)*2	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 *Free Product Thickness Total Well Denth (TMD)	JGW) LWC = TWD-DGW) C) = X X (Standard Purge Volu	Total Volume of Water Purged Before Sampling all free product is present over 1/8 inch, sampling will not be required.
	SSS SSS			324976 15,000 1,413 447	1.0-10.0 h

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Voi.	Post	Samole
Volume Purged (gallons)	l	م بح	5.0	d't				
Time (military)	1320	1325	1770	1395				
pH (s.u)	6.3	8.06	ye .	5.07				
Specific Conductivity	38.6	37.9	77.4	77.8				
Water Temperature (°C)	1.81	19.9	20.3	20.4				
Turbidity (subjective: clear, slightly cloudy, cloudy)	5.42	14.9	1111	4.87				
Dissolved Oxygen (mg/l)	1.8	8'/	8'1	8'1				

Remarks:

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Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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feet(ft) gals gals 30.10 *If free product is present over 1/8 inch, sampling will not be required. inch of 30.10 ₹ .17 (Standard Purge Volume) × Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) 1 Casing Volume (LWC*C) = 3 Casing Volumes = 3 X MW-10 *Free Product Thickness Total Well Depth (TWD) Well Diameter (D) Well # Date/Time 35630-32 1.0-10.0 NTU 324976 15,000 1,413 11929 447 2 Conductivity Sensor: Received by Site ID #: **Turbidity:** Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Facility Name: Former Ryder Truck Terminal Date/Time 7 7 Oakton 35630-62 324976 YSI 60 0% cal 10.0 7.0 4.0 Ambient Air Temperature (°F) General Weather Conditions Relinquished by Field Personnel pH Sensor: pH = 10.0 **DO Meter** Standard pH =4.0 pH = 7.0 serial no.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons))	2.5	4.7	6.5				
Time (military)	0 X K)	1425	(430	(475				
pH (s.u)	44	4.72	4.7 4	477				
Specific Conductivity	8:55	75.6	7.7	1,57				
Water Temperature (°C)	30.1	20%	21.1	21.7				
Turbidity (subjective: clear, slightly cloudy, cloudy)	8.94	10.3	10.0	18.6				
Dissolved Oxygen (mg/l)	611	6'7	1.9	1.7				

Remarks:

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BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date					Well #	NAV-11				
Field Personnel					:					
General Weather Conditions					Well Diameter (D)	<u>Q</u>	2	inch of	31.00	feet(ft)
Ambient Air Temperature (°F)					conversion fact	conversion factor (C): 3.143*(D/2)^2				(1)
					_	for a 2 inch well C = 0.163	c = 0.163			
Facility Name: Former Ryder Truck Terminal	Terminal	Site ID #:	11929	29	_	for a 4 inch well C = 0.652	3 = 0.652			
	, 4iloi O				*Free Product Thickness	Thickness	ı			
	duality Assurance	ance			otal well Depth (TWD)	th (TWD)	1	31.00 ft		
					Depth to Grour	Depth to Groundwater (DGW)		#		
pH Sensor:		Conductivity Sensor	sor:		Length of Wate	Length of Water Colum (LWC = TWD-DGW)	TWD-DGW)			#
serial no.		serial no.	•		1 Casing Volume (LWC*C) =	ne (LWC*C) =	•	× 17 =		slep
pH =4.0	i	Standard			3 Casing Volumes = 3	nes=3 X				slep
pH = 7.0		Standard			ı	•	(Standard Purge Volume)	olume)		
pH = 10.0		Standard						Ì		
DO Meter		Standard								
Standard		Turbidity:								
	Chain of Custody	stody			Total Volume o	if Water Purged	Total Volume of Water Purged Before Sampling			gals
Relinquished by D	Date/Time	Received by	λc	Date/Time		ा प्रावध्यात वर्ष	no inch, sampiing	wiii riot be require		
			Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Samole
Volume Purged (gallons)										
Time (military)										
pH (s.u)										
Specific Conductivity										
Water Temperature (°C)										
Turbidity (subjective: clear, slightly cloudy, cloudy)	htly cloudy,	cloudy)								
Dissolved Oxygen (mg/l)										
C										
Kemarks:	106	access; ble								



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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feet(ft) gals gals 30.90 *If free product is present over 1/8 inch, sampling will not be required. inch of 30.90 ٤ X .17 (Standard Purge Volume) Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) 1 Casing Volume (LWC*C) = 3 Casing Volumes = 3 X MW-12 *Free Product Thickness Total Well Depth (TWD) Well Diameter (D) Well # Date/Time 35630-32 1.0-10.0 NTU 324976 15,000 1,413 11929 447 8 Conductivity Sensor: Received by Site ID #: **Turbidity:** Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Facility Name: Former Ryder Truck Terminal Date/Time fuuns 3 Oakton 35630-62 324976 YSI 60 0% cal 10.0 7.0 4.0 Ambient Air Temperature (°F) General Weather Conditions Relinquished by Field Personnel pH Sensor: DO Meter Standard pH = 10.0serial no. pH =4.0 pH = 7.0

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons))	2.0	016	5.5				
Time (military)	100	1028	10 31	1034				
pH (s.u)	8118	413	11.5	8110				
Specific Conductivity	8411	1:317	1/8.3	1/8.7				
Water Temperature (°C)	19.8	20.4	8.9	21.1				
Turbidity (subjective: clear, slightly cloudy, cloudy)	13.4	6.9	141	4.12				
Dissolved Oxygen (mg/l)	1.3	1.1	1.7	1.1				

Remarks:

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BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management ð

Page

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	/	25	9.3	7.5				
Time (military)	1/ 62	2011	77.1	1120				
pH (s.u)	8 t. p	4.73	14.7	4.69				
Specific Conductivity	69.2	68.9	589	1.39				
Water Temperature (°C)	8.61	20.8	20,8	20.9				
Turbidity (subjective: clear, slightly cloudy, cloudy)	10.3	3.8	7'11	9.16				
Dissolved Oxygen (mg/l)	b' 1	(با	811	8,				

Remarks:

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	e Tank	
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Well # MW-14	Well Diameter (D) 2 inch of 32.00 feet(ft) conversion factor (C): 3.143*(D/2)^2	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	*Free Product Thickness NA ft Total Well Depth (TWD) 32.00 ft	JGW)	× 17 = 4.33	69.9	(Standard Purge Volume)				Total Volume of Water Purged Before Sampling *If free product is present over 1/8 inch, sampling will not be required.		2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sample	-	1278 1242	4.89 4.86	7 1.9 23.8	2/1 21.5	18'6 2'17	1.4 1.4		1/28/16
Date /\delta \ki/	ar Conditions	Facility Name: Former Ryder Truck Terminal Site ID #: 11929	Quality Assurance	pH Sensor: Oakton 35630-62 Conductivity Sensor: 35630-32	. 324976 serial no. 324976	pH =4.0 Standard 15,000	7.0 Standard	10.0 Standard	Standard NSI 60 Standard 84	C/O Cal	Chain of Custody	Relinquished by Date/Time Received by Date/Time	Initial 1st Vol.	Volume Purged (gallons)	Time (military)	pH (s.u) /, 93	Specific Conductivity	Water Temperature (°C)	Turbidity (subjective: clear, slightly cloudy, cloudy) (1.8 17.7	Dissolved Oxygen (mg/l) /, ス // パープ		well sandly as 1240 an



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- Cate				
	Well # IMW-15			
ried Personnel				
General Weather Conditions	Well Diameter (D)	jo doni	33.50 6001(#)	
Ambient Air Temperature (°F)	(C): 3.143*(D/2) ²			
	for a 2 inch well C = 0.163	8		
radiily Name: Former Kyder Indox Terminal Site ID #: 11929	for a 4 inch well C = 0.652	1.06		<u> </u>
Quality Assurance	*Free Product Thickness Total Well Depth (TWD)	33.50	≠ ,≠	
	Depth to Groundwater (DGW)	18.28	:,∉=	
pH Sensor:	Length of Water Colum (LWC = TWD-DGW)	GW)	14.74 ft	
serial no.	1 Casing Volume (LWC*C) =	= 71. X	2.50 aals	
pH ≂4.0	3 Casing Volumes = 3 X		7.50 gals	
pH = 7.0 Standard	•	(Standard Purge Volume)	/	
pH = 10.0	•			
DO Meter Standard				
Standard Turbidity:				
Chain of Custody	Total Volume of Water Purged Before Sampling	ampling	gals	
Relinquished by Date/Time Received by Date/Time	ii iree product is present over 1/8 inch, sampling will not be required.	sampling will not be rec	quired.	
Initial 1st Vol.	2nd Vol. 3rd Vol. 4th Vol	/ol. 5th Vol.	Post Sample	a a
Volume Purged (gallons)			-	
Time (military)				Τ
pH (s.u)				
Specific Conductivity				Ī
Water Temperature (°C)				Τ
Turbidity (subjective: clear, slightly cloudy, cloudy)				Τ
Dissolved Oxygen (mg/l)				
you gantled due to FP	FPT > B.01			



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Page	Page	

Date / // 1///				Well #	MW-16				
Field Personnel									
General Weather Conditions			1	Well Diameter (D)	<u>(Q</u>	2	inch of	34.40	feet(ft)
Ambient Air Temperature (°F)				conversion fac	conversion factor (C): 3.143*(D/2)^2	D/2)^2			<u> </u>
					for a 2 inch well C = 0.163	C = 0.163			
Facility Name: Former Ryder Truck Terminal	Site ID #:		11929		for a 4 inch well C = 0.652	C = 0.652			
				*Free Product Thickness	Thickness		ĄZ	#	
Quality Assurance	surance			Total Well Depth (TWD)	th (TWD)		34.40	, #=	·
				Depth to Groun	Depth to Groundwater (DGW)		17.90	, =	
or: Oakt	Conductivity Sensor:		35630-32	Length of Wate	Length of Water Colum (LWC = TWD-DGW)	= TWD-DGW)		(6.70	#
serial no. 324976	serial no.	3.	324976	1 Casing Volur	1 Casing Volume (LWC*C) =		= 71. X	13'8	Sep
pH =4.0	Standard	1	15,000	3 Casing Volumes = 3	nes = 3 X		H	8.53	dals
pH = 7.0	Standard		1,413		•	(Standard Purge Volume)	Volume)	-	
pH = 10.0	Standard		447	-			•		
DO Meter YSI 60	Standard		84						•
Standard 0% cal	Turbidity:	1.0-1	.0-10.0 NTU						
Chain of Custody	ustody			Total Volume c	of Water Purged is present over	Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch. sampling will not be remirred) o will not be rec	peili	gals
Relinquished by Date/Time	Received by	red by	Date/Time						
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		\	3,8	9.9	5.3				
Time (military)		1750	1355	1400	(10)				
pH (s.u)		19.4	65'h	4.5 3	15 %				
Specific Conductivity		67.7	6.98	26.4	5.93				
Water Temperature (°C)		20.1	20.9	21.2	21.6				
Turbidity (subjective: clear, slightly cloudy, cloudy)	, cloudy)	9.81	19.8	67)	6.63				
Dissolved Oxygen (mg/l)		1.9	1.9	1.9	6.9				
Remarks:									
1401/ /4) a myllud	@ 14	05 00	1/28/6	16				



Page 1 of

Date			Well #	MW-17			
Field Personnel			1				
General Weather Conditions		ľ	Well Diameter (D)	6	in doci	00 40	(4)10
Ambient Air Temperature (°F)]	conversion facto	(C): 3.143*(D/2)^2	5		(II)
		1	- Po	for a 2 inch well C = 0.163			
Facility Name: Former Ryder Truck Terminal	Site ID #:	11929	Q	for a 4 inch well C = 0.652	90.0		
			*Free Product Thickness	ickness	06:3i	#	
Quality Assurance	90		Total Well Depth (TWD)	(TWD)	35.00	. #	
			Depth to Groundwater (DGW)	water (DGW)	10.06	. ≠	
pH Sensor:	Conductivity Sensor:		Length of Water	Length of Water Colum (LWC = TWD-DGW)		14,94	4
serial no.	serial no.		1 Casing Volume (LWC*C) =	(LWC*C) =	= 71. X	400	Sied
pH =4.0	Standard		3 Casing Volumes = 3	ss = 3 ×		7.15	Sien
pH = 7.0	Standard		•		rge Volume)		
pH = 10.0	Standard						"- :-
DO Meter Str	Standard						
Standard Tu	Turbidity:						
Chain of Custody	*		Total Volume of	Total Volume of Water Purged Before Sampling	ing		gals
Relinquished by Date/Time	Received by	Date/Time	n nee bronner	ii nee productis presentover 1/o indi, sampling wiii not be required.	pling will not be rec	quirea.	
	Initial	1st Vol.	2nd Vol.	3rd Vol. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)							
Time (military)							
pH (s.u)							
Specific Conductivity							
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)	(Apr						
Dissolved Oxygen (mg/l)							
Remarks: MI / M.J. C.	Jan 18 and		4 LP7 5001	100			
-	2	۸۲ /۵		70.			



Page 1 of

Date (/AL///	Well # MW-18
er Conditions	Well Diameter (D) 2 inch of 35 60 feat/fts
Ambient Air Temperature (°F)	(C): 3.143*(D/2)^2
Facility Name: Former Ryder Truck Terminal Site ID #: 11929	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652
Quality Assurance	*Free Product Thickness ft Total Well Depth (TWD)
pH Sensor: Conductivity Sensor:	$\frac{(9.17)}{(1.00)}$
	1 Casing Volume (LWC*C) = X .17 = 3.7 Jals
	3 Casing Volumes = 3 X = 6.34 gals
	(Standard Purge Volume)
pn = 10.0 Standard Standard	
Chain of Custody	Total Volume of Water Purged Before Sampling
Relinquished by Date/Time Received by Date/Time	n rece product is present over 1/0 mat, samping will not be required.
Initial 1st Vol.	2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sample
Volume Purged (gallons) 7.0	-
Time (military) 1/30 1/37	1186 1139
bH (s.u) // 分 // // // // // // // // // // // /	4,68 4,68
Specific Conductivity	S 8. (S 8. 0
Water Temperature (°C)	21,9 22.0
Turbidity (subjective: clear, slightly cloudy, cloudy)	(0.7 9.2)
Dissolved Oxygen (mg/l)	
well similar @ 1139 an 1/d.	1/48/16

APPENDIX C LABORATORY DATA SHEETS

Report of Analysis

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, SC 29615 Attention: Trevor Benton

Project Name: Former Ryder Terminal

Project Number:1010-21

Lot Number: RA29031

Date Completed: 02/03/2016

Project Manager





This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

The following non-paginated documents are considered part of this report: Chain of Custody Record and Sample Receipt Checklist.

SC DHEC No: 32010 NELAC No: E87653 NC DENR No: 329 NC Field Parameters No: 5639

Case Narrative Bunnell-Lammons Engineering, Inc.

Lot Number: RA29031

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

Shealy Environmental Services, Inc. Page: 2 of 30

Sample Summary Bunnell-Lammons Engineering, Inc.

Lot Number: RA29031

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	UST#11929 MW-1	Aqueous	01/28/2016 1054	01/29/2016
002	UST#11929 MW-2	Aqueous	01/28/2016 1219	01/29/2016
003	UST#11929 MW-2D	Aqueous	01/28/2016 1200	01/29/2016
004	UST#11929 MW-3R	Aqueous	01/28/2016 1012	01/29/2016
005	UST#11929 MW-3R DUP	Aqueous	01/28/2016 1013	01/29/2016
006	UST#11929 MW-5	Aqueous	01/28/2016 1307	01/29/2016
007	UST#11929 MW-9	Aqueous	01/28/2016 1335	01/29/2016
800	UST#11929 MW-10	Aqueous	01/28/2016 1435	01/29/2016
009	UST#11929 MW-12	Aqueous	01/28/2016 1034	01/29/2016
010	UST#11929 MW-13	Aqueous	01/28/2016 1120	01/29/2016
011	UST#11929 MW-14	Aqueous	01/28/2016 1242	01/29/2016
012	UST#11929 MW-16	Aqueous	01/28/2016 1405	01/29/2016
013	UST#11929 MW-18	Aqueous	01/28/2016 1139	01/29/2016
014	UST#11929 FB-1	Aqueous	01/28/2016 1500	01/29/2016
015	TRIP BLANK	Aqueous	01/28/2016	01/29/2016

(15 samples)

Executive Summary Bunnell-Lammons Engineering, Inc.

Lot Number: RA29031

Sample	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
002	UST#11929 MW-2	Aqueous	Benzene	8260B	25		ug/L	6
002	UST#11929 MW-2	Aqueous	Naphthalene	8260B	59		ug/L	6
002	UST#11929 MW-2	Aqueous	tert-butyl alcohol (TBA)	8260B	8.9	J	ug/L	6
002	UST#11929 MW-2	Aqueous	Xylenes (total)	8260B	33		ug/L	6
002	UST#11929 MW-2	Aqueous	1,2-Dibromoethane (EDB)	8011	0.013	J	ug/L	6
003	UST#11929 MW-2D	Aqueous	Naphthalene	8260B	0.57	J	ug/L	7
004	UST#11929 MW-3R	Aqueous	Benzene	8260B	0.42	J	ug/L	8
004	UST#11929 MW-3R	Aqueous	Naphthalene	8260B	1.4	J	ug/L	8
004	UST#11929 MW-3R	Aqueous	Xylenes (total)	8260B	0.77	J	ug/L	8
005	UST#11929 MW-3R DUP	Aqueous	Benzene	8260B	0.27	J	ug/L	9
005	UST#11929 MW-3R DUP	Aqueous	Naphthalene	8260B	0.72	J	ug/L	9
005	UST#11929 MW-3R DUP	Aqueous	Xylenes (total)	8260B	0.41	J	ug/L	9
010	UST#11929 MW-13	Aqueous	tert-Amyl alcohol (TAA)	8260B	8.4	J	ug/L	14
010	UST#11929 MW-13	Aqueous	Benzene	8260B	43		ug/L	14
010	UST#11929 MW-13	Aqueous	Methyl tertiary butyl ether	8260B	0.39	J	ug/L	14
010	UST#11929 MW-13	Aqueous	Naphthalene	8260B	130		ug/L	14
010	UST#11929 MW-13	Aqueous	tert-butyl alcohol (TBA)	8260B	15	J	ug/L	14
010	UST#11929 MW-13	Aqueous	Xylenes (total)	8260B	100		ug/L	14
010	UST#11929 MW-13	Aqueous	1,2-Dibromoethane (EDB)	8011	0.058		ug/L	14
011	UST#11929 MW-14	Aqueous	tert-Amyl alcohol (TAA)	8260B	130		ug/L	15
011	UST#11929 MW-14	Aqueous	Benzene	8260B	140		ug/L	15
011	UST#11929 MW-14	Aqueous	Ethylbenzene	8260B	310		ug/L	15
011	UST#11929 MW-14	Aqueous	Naphthalene	8260B	100		ug/L	15
011	UST#11929 MW-14	Aqueous	tert-butyl alcohol (TBA)	8260B	19	J	ug/L	15
011	UST#11929 MW-14	Aqueous	Toluene	8260B	6.2	J	ug/L	15
011	UST#11929 MW-14	Aqueous	Xylenes (total)	8260B	8.9	J	ug/L	15
012	UST#11929 MW-16	Aqueous	Naphthalene	8260B	0.98	J	ug/L	16
013	UST#11929 MW-18	Aqueous	tert-Amyl alcohol (TAA)	8260B	9.4	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Benzene	8260B	100		ug/L	17
013	UST#11929 MW-18	Aqueous	Diisopropyl ether (IPE)	8260B	1.1	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Ethylbenzene	8260B	2.0	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Methyl tertiary butyl ether	8260B	5.5		ug/L	17
013	UST#11929 MW-18	Aqueous	Naphthalene	8260B	260		ug/L	17
013	UST#11929 MW-18	Aqueous	tert-butyl alcohol (TBA)	8260B	18	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Toluene	8260B	0.68	J	ug/L	17
013	UST#11929 MW-18	Aqueous	Xylenes (total)	8260B	82		ug/L	17
013	UST#11929 MW-18	Aqueous	1,2-Dibromoethane (EDB)	8011	0.13		ug/L	17

(37 detections)

Description: UST#11929 MW-1 Date Sampled:01/28/2016 1054 Date Received: 01/29/2016

Laboratory ID: RA29031-001

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B		,	sis Date Analyst 2016 1326 JM1	Prep Date	Batch 95468			
Parameter			AS	Analytical	Decult O	DOL	MDI	Unito	Dun
		Num		Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8		8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-0		8260B	ND	10	0.25	ug/L	1
Benzene		71-4		8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-7		8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-0		8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-2	0-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-9	5-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-1	7-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-4	1-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	2-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	4-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene		91-2	0-3	8260B	ND	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-6	5-0	8260B	ND	20	2.3	ug/L	1
Toluene		108-8	8-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)		1330-2	0-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate		Run 1 A ecovery	ccepta Lim						
1,2-Dichloroethane-d4		84	70-13	30					
Bromofluorobenzene		86	70-13	30					
Toluene-d8		89	70-13	30					

FDB & DBCP by Microextraction

	LDD	A DD	oce by wichoex	traction				
Run Prep Method	Analytical Method D	ilution	Analysis Date Analys	st Prep Date	Batch			
1 8011	8011	1	02/02/2016 1353 MEM	02/02/2016	1010 95535			
		С	CAS Analytical					
Parameter		Numl	nber Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93	93-4 8011	ND	0.019	0.0048	ug/L	1
	Ru	un 1 A	Acceptance					
Surrogate	Q % Re	covery	Limits					
1,1,1,2-Tetrachloroethane		97	57-137					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: UST#11929 MW-2 Date Sampled:01/28/2016 1219 Date Received: 01/29/2016

Laboratory ID: RA29031-002

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 1 8260B	Dilution 1	,	is Date Analyst 016 1348 JM1	Prep Da	te Batch 95468			
Parameter		(Num	CAS nber	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8		8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND	10	0.25	ug/L	1
Benzene		71-4	13-2	8260B	25	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene		91-2	20-3	8260B	59	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	8.9 J	20	2.3	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	33	5.0	0.32	ug/L	1
Surrogate		Run 1 A ecovery	Acceptar Limit						
1,2-Dichloroethane-d4		83	70-130)				•	
Bromofluorobenzene		88	70-130)					
Toluene-d8		90	70-130)					

FDB & DBCP by Microextraction

		Dabl		by Whereckin	actio	' '				
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep	Date	Batch			
1 8011	8011	1	02/02/2	2016 1424 MEM	02/02/2	016 1	1010 95535			
		(CAS	Analytical						
Parameter		Num	nber	Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	0.013	J	0.019	0.0049	ug/L	1
Surrogate		Run 1 /	Accepta Lim							
1,1,1,2-Tetrachloroethane		108	57-13	37					•	

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time P = The RPD between two GC columns exceeds 40%

J = Estimated result < PQL and ≥ MDL

N = Recovery is out of criteria

Description: UST#11929 MW-2D Date Sampled:01/28/2016 1200 Date Received: 01/29/2016

Laboratory ID: RA29031-003

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method Dilution 8260B 1		ysis Date Analyst /2016 1410 JM1	Prep Date	Batch 95468			
Demonstra		CAS	Analytical	Describe O	DOI	MDI	11-24-	D
Parameter		umber	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		4-05-8	8260B	ND	10	0.25	ug/L	1
Benzene		1-43-2	8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	76	2-75-4	8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane	10	7-06-2	8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	10	8-20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	62	4-95-3	8260B	ND	20	1.5	ug/L	1
Ethanol	6	4-17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene	10	0-41-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	63	7-92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	163	34-04-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene	Q	1-20-3	8260B	0.57 J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	-	75-65-0	8260B	ND	20	2.3	ug/L	1
Toluene	10	8-88-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)	133	30-20-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate	Run 1 Q % Recove	Accep ry Lir	tance mits					
1,2-Dichloroethane-d4	83	70-	130					
Bromofluorobenzene	86	70-	130					
Toluene-d8	90	70-	130					

FDB & DBCP by Microextraction

	LD	ט ע טו		by Microexti	action				
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep D	ate Batch			
1 8011	8011	1	02/02/	2016 1435 MEM	02/02/20	16 1010 95535			
		(CAS	Analytical					
Parameter		Nun	nber	Method	Result (2 PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.0049	ug/L	1
		Run 1	Accepta	ance					
Surrogate	Q % F	Recovery	Lim	nits					
1,1,1,2-Tetrachloroethane		93	57-1	37					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

Description: UST#11929 MW-3R Date Sampled:01/28/2016 1012 Date Received: 01/29/2016

Laboratory ID: RA29031-004

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	ysis Date Analyst 2016 1432 JM1	Prep	Date	Batch 95468			
			CAS	Analytical			501			
Parameter			nber	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)			85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND		10	0.25	ug/L	1
Benzene		71-	43-2	8260B	0.42	J	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND		20	1.5	ug/L	1
Ethanol		64-	17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene		91-	20-3	8260B	1.4	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND		20	2.3	ug/L	1
Toluene		108-	38-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	0.77	J	5.0	0.32	ug/L	1
Surrogate		Run 1 Recovery	Accept Lin	ance nits						
1,2-Dichloroethane-d4		82	70-1	30						
Bromofluorobenzene		87	70-1	30						
Toluene-d8		89	70-1	30						

FDB & DBCP by Microextraction

		Dabl		by Microckii	action				
Run Prep Method	Analytical Method	Dilution	Analy	ysis Date Analyst	Prep D	ate Batch			
1 8011	8011	1	02/02	/2016 1445 MEM	02/02/20	16 1010 95535			
		(CAS	Analytical					
Parameter		Nun	nber	Method	Result (2 PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.020	0.0049	ug/L	1
Surrogate		Run 1 A	Accept Lir	ance nits					
1,1,1,2-Tetrachloroethane		101	57-1	137					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: UST#11929 MW-3R DUP

Date Sampled:01/28/2016 1013 Date Received:01/29/2016 Laboratory ID: RA29031-005 Matrix: Aqueous

Volatile Org	anic Comp	oounds by	<u>/ GC/MS</u>

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution		sis Date Analyst 016 1454 JM1	Prep	Date	Batch 95468			
I 3030B	6200B	' 	02/01/20	016 1434 JIVIT			90400			
			CAS	Analytical	- ·		501			
Parameter			nber	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	ე5-8	8260B	ND		10	0.25	ug/L	1
Benzene		71-	43-2	8260B	0.27	J	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane		107-0	ე6-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND		20	1.5	ug/L	1
Ethanol		64-	17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene		100-4	41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene		91-	20-3	8260B	0.72	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND		20	2.3	ug/L	1
Toluene		108-8	88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	0.41	J	5.0	0.32	ug/L	1
Surrogate		Run 1 A	Acceptar Limi							
1,2-Dichloroethane-d4		83	70-13	0						
Bromofluorobenzene		87	70-13	0						
Toluene-d8		88	70-13	.0						

EDB & DBCP by Microextraction

	LD	DADL		by Microckii	action	ı				
Run Prep Method	Analytical Method	Dilution	Analy	ysis Date Analyst	Prep [Date	Batch			
1 8011	8011	1	02/02	/2016 1455 MEM	02/02/20	016 1010	95535			
		(CAS	Analytical						
Parameter		Num	nber	Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	(0.019	0.0048	ug/L	1
		Run 1	Accept	ance						
Surrogate	Q % F	Recovery	Lin	nits						
1,1,1,2-Tetrachloroethane		112	57-1	37				•		

PQL = Practical quantitation limit

B = Detected in the method blank

 $\mbox{E = Quantitation of compound exceeded the calibration range} \mbox{ } \mbox{ } \mbox{H = Out of holding time}$

N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40% Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: UST#11929 MW-5

Date Sampled:01/28/2016 1307 Date Received: 01/29/2016

Laboratory ID: RA29031-006 Matrix: Aqueous

Volatile	Organic	Comp	oounds	by	GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	s Date Analyst 16 1516 JM1	Prep Date	Batch 95468			
Parameter			CAS	Analytical	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)			nber 85-4	Method 8260B	ND	20	1.5		1
, ,								ug/L	1
tert-Amyl methyl ether (TAME)		994-		8260B	ND	10	0.25	ug/L	1
Benzene			43-2	8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-		8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-		8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-	17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene		91-	20-3	8260B	ND	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	20	2.3	ug/L	1
Toluene		108-	88-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate		Run 1 Recovery	Acceptan Limits						
1,2-Dichloroethane-d4		83	70-130						
Bromofluorobenzene		86	70-130						
Toluene-d8		88	70-130						

FDB & DBCP by Microextraction

	LD	JADL		by Microexti	action				
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep Date	Batch			
1 8011	8011	1	02/02/	2016 1505 MEM	02/02/2016	1010 95535			
		(CAS	Analytical					
Parameter		Num	nber	Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.020	0.0050	ug/L	1
Surrogate	•	Run 1 /	Accept Lin	ance nits					
1,1,1,2-Tetrachloroethane		103	57-1	37					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

Description: UST#11929 MW-9

Date Sampled:01/28/2016 1335 Date Received: 01/29/2016

Naphthalene

Xylenes (total)

Toluene

tert-butyl alcohol (TBA)

Laboratory ID: RA29031-007 Matrix: Aqueous

		3 -		erripe arrae	<i>by</i> 00/11/10				
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep Date	Batch			
1 5030B	8260B	1	02/01/2	2016 1538 JM1		95468			
		(CAS	Analytical					
Parameter		Nun	nber	Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	05-8	8260B	ND	10	0.25	ug/L	1
Benzene		71-4	43-2	8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-4	41-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.0	0.23	ug/L	1

8260B

8260B

8260B

8260B

ND

ND

ND

ND

5.0

20

5.0

5.0

0.14

2.3

0.24

0.32

ug/L

ug/L

ug/L

ug/L

1

1

1

91-20-3

75-65-0

108-88-3

1330-20-7

Volatile Organic Compounds by GC/MS

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		86	70-130
Toluene-d8		89	70-130

EDR & DRCP by Microeytraction

Run Prep Method 1 8011	Analytical Method 8011		nalysis Date Analyst 2/02/2016 1516 MEM	•	Batch 010 95535			
Parameter		CA Numbe		Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-	Wiethod	ND	0.020	0.0049	ug/L	1
Surrogate		Run 1 Aco	ceptance Limits					

1,1,1,2-Tetrachloroethane 111 57-137

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL $J = Estimated result < PQL and <math>\geq MDL$ Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Description: UST#11929 MW-10 Date Sampled:01/28/2016 1435 Date Received: 01/29/2016

Laboratory ID: RA29031-008

Matrix: Aqueous

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	ysis Date Analyst 2016 1600 JM1	Prep Date	Batch 95468			
Parameter			CAS	Analytical	Result Q	PQL	MDL	Units	Dun
		Num		Method					Run
tert-Amyl alcohol (TAA)		75-8		8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-0		8260B	ND	10	0.25	ug/L	1
Benzene		71-4		8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-7		8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-0		8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	20	2.3	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate		Run 1 A ecovery	Accept Lin	ance nits					
1,2-Dichloroethane-d4		83	70-1	30			·		
Bromofluorobenzene		86	70-1	30					
Toluene-d8		90	70-1	30					

FDB & DBCP by Microextraction

		J Q DDOI	by Microckti	action				
Run Prep Method	Analytical Method	Dilution Ana	lysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 02/02	2/2016 1526 MEM	02/02/2016 10	010 95535			
-	-	CAS	Analytical					
Parameter		Number	Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.019	0.0047	ug/L	1
Surrogate			otance imits					
1 1 1 2 Totrachloroothano		00 57	127					

1,1,1,2-Tetrachloroethane

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: UST#11929 MW-12 Date Sampled:01/28/2016 1034

Date Received: 01/29/2016

Laboratory ID: RA29031-009 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	-	ysis Date Analyst /2016 1622 JM1	Prep Date	Batch 95468			
Parameter			CAS nber	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-	35-4	8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND	10	0.25	ug/L	1
Benzene		71-	43-2	8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-	17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene		91-	20-3	8260B	ND	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	20	2.3	ug/L	1
Toluene		108-	38-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate		Run 1 Recovery	Accept Lir	ance nits					
1,2-Dichloroethane-d4		83	70-1	130					
Bromofluorobenzene		85	70-1	130					
Toluene-d8		89	70-1	130					

EDB & DBCP by Microextraction

	LD	DADL		y WICH OCKE	action				
Run Prep Method	Analytical Method	Dilution	Analys	is Date Analyst	Prep Date	Batch			
1 8011	8011	1	02/02/20	016 1536 MEM	02/02/2016	1010 95535			
		(CAS	Analytical					
Parameter		Nun	nber	Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.0048	ug/L	1
Surrogate		Run 1 / Recovery	Acceptai Limi						
1,1,1,2-Tetrachloroethane		102	57-13	7					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: UST#11929 MW-13 Date Sampled:01/28/2016 1120 Date Received: 01/29/2016

Laboratory ID: RA29031-010

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method Analyi 1 5030B	tical Method Dilution 8260B 1	,	sis Date Analyst 2016 1644 JM1	Prep	Date	Batch 95468			
Denomination		CAS	Analytical	D 14		DOI	MDI	11-24-	Divis
Parameter		mber	Method	Result		PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		85-4	8260B	8.4	J	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		05-8	8260B	ND		10	0.25	ug/L	1
Benzene	71	43-2	8260B	43		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762-	75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane	107-	06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108-	20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624-	95-3	8260B	ND		20	1.5	ug/L	1
Ethanol	64	17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene	100-	41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-	92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634	04-4	8260B	0.39	J	5.0	0.23	ug/L	1
Naphthalene	91	20-3	8260B	130		5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75	65-0	8260B	15	J	20	2.3	ug/L	1
Toluene	108-	88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)	1330	20-7	8260B	100		5.0	0.32	ug/L	1
Surrogate	Run 1 Q % Recovery	Accept Lin							
1,2-Dichloroethane-d4	83	70-1	30						
Bromofluorobenzene	87	70-1	30						
Toluene-d8	90	70-1	30						

FDB & DBCP by Microextraction

		Dabl	, , , , , , , , , , , , , , , , , , , 	by Wherecki	actio					
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep	Date	Batch			
1 8011	8011	1	02/02/2	2016 1547 MEM	02/02/2	016 10	010 95535			
		(CAS	Analytical						
Parameter		Num	nber	Method	Result	Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	0.058		0.020	0.0049	ug/L	1
Surrogate		Run 1 A	Accepta Lim							
1,1,1,2-Tetrachloroethane		100	57-1	37						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

N = Recovery is out of criteria

ND = Not detected at or above the MDL J = Estimated result < PQL and \geq MDL P = The RPD between two GC columns exceeds 40% Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Description: UST#11929 MW-14
Date Sampled:01/28/2016 1242
Date Received: 01/29/2016

Laboratory ID: RA29031-011 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 5		ysis Date Analyst /2016 1750 JM1	Prep	Date	Batch 95468			
			CAS	Analytical		_				
Parameter			nber	Method	Result	Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)			85-4	8260B	130		100	7.3	ug/L	1
tert-Amyl methyl ether (TAME)		994-		8260B	ND		50	1.3	ug/L	1
Benzene		71-	43-2	8260B	140		25	1.1	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		25	3.3	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND		25	1.2	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND		25	1.3	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND		100	7.5	ug/L	1
Ethanol		64-	17-5	8260B	ND		500	96	ug/L	1
Ethylbenzene		100-	41-4	8260B	310		25	1.1	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND		5.0	0.65	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND		25	1.2	ug/L	1
Naphthalene		91-	20-3	8260B	100		25	0.70	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	19	J	100	11	ug/L	1
Toluene		108-	88-3	8260B	6.2	J	25	1.2	ug/L	1
Xylenes (total)		1330-	20-7	8260B	8.9	J	25	1.6	ug/L	1
Surrogate	Q %1	Run 1 Recovery	Accep Lir	tance mits						
1,2-Dichloroethane-d4		82	70-	130						
Bromofluorobenzene		85	70-	130						
Toluene-d8		89	70-	130						
	ED	B & DI	ЗСР	by Microextr	actio	n				
Run Prep Method	Analytical Method	Dilution 1		ysis Date Analyst /2016 1557 MEM	Prep		Batch			

	LD	DADL	JOE D	/ WIICI OCALI	action				
Run Prep Method	Analytical Method	Dilution	Analysi	s Date Analyst	Prep Date	Batch			
1 8011	8011	1	02/02/20	16 1557 MEM	02/02/2016	1010 95535			
		(CAS	Analytical					
Parameter		Num	ber	Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.0048	ug/L	1
			Acceptan						
Surrogate	Q % R	ecovery	Limits	5					
1,1,1,2-Tetrachloroethane		86	57-137						

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: UST#11929 MW-16 Date Sampled:01/28/2016 1405 Date Received: 01/29/2016

Laboratory ID: RA29031-012

Matrix: Aqueous

				<u>/c</u>	ıla	til	<u>e (</u>	<u> Ir</u>	gar	٦ic	<u> </u>	0	m	pc)UI	<u>าd</u>	S	by	G	<u>C/I</u>	<u>/IS</u>	
_		-	 							-			_		-							

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution		s Date Analyst 16 1706 JM1	Prep D		3atch 95468			
1 5030B	82008	ı	02/01/20	16 1706 JIVII		`	75408			
Demonstra			CAS	Analytical	D 14	0 5	.01	MDI	1.114	D
Parameter			nber	Method	Result	Q P	QL	MDL	Units	Run
tert-Amyl alcohol (TAA)			85-4	8260B	ND		20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND		10	0.25	ug/L	1
Benzene		71-	43-2	8260B	ND		5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		5.0	0.66	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND		5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND		5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND		20	1.5	ug/L	1
Ethanol		64-	17-5	8260B	ND		100	19	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND		5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND		1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND		5.0	0.23	ug/L	1
Naphthalene		91-	20-3	8260B	0.98	J	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND		20	2.3	ug/L	1
Toluene		108-	88-3	8260B	ND		5.0	0.24	ug/L	1
Xylenes (total)		1330-	20-7	8260B	ND		5.0	0.32	ug/L	1
			Acceptan							
Surrogate	Q % F	Recovery	Limit	S						
1,2-Dichloroethane-d4		83	70-130							
Bromofluorobenzene		86	70-130							
Toluene-d8		89	70-130							

EDR & DRCP by Microeytraction

	EDB & DBCb	by Microext	raction				
Run Prep Method 1 8011	3	ysis Date Analyst /2016 1607 MEM	Prep Date 02/02/2016 1	Batch 010 95535			
Parameter	CAS Number	Analytical Method	Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (EDB)	106-93-4	8011	ND	0.019	0.0048	ug/L	1
Surrogate	Run 1 Accept Q % Recovery Lir	tance mits					
1,1,1,2-Tetrachloroethane	83 57-7	137					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

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Description: UST#11929 MW-18
Date Sampled:01/28/2016 1139
Date Received: 01/29/2016

Laboratory ID: RA29031-013

Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch
1	5030B	8260B	1	02/01/2016 1728 JM1		95468
2	5030B	8260B	5	02/02/2016 1303 JM1		95558

Number			\sim	DOL	MDI	I limited	D
	Method	Result	Q	PQL	MDL	Units	Run
75-85-4	8260B	9.4	J	20	1.5	ug/L	1
994-05-8	8260B	ND		10	0.25	ug/L	1
71-43-2	8260B	100		5.0	0.21	ug/L	1
762-75-4	8260B	ND		5.0	0.66	ug/L	1
107-06-2	8260B	ND		5.0	0.23	ug/L	1
108-20-3	8260B	1.1	J	5.0	0.26	ug/L	1
624-95-3	8260B	ND		20	1.5	ug/L	1
64-17-5	8260B	ND		100	19	ug/L	1
100-41-4	8260B	2.0	J	5.0	0.21	ug/L	1
637-92-3	8260B	ND		1.0	0.13	ug/L	1
1634-04-4	8260B	5.5		5.0	0.23	ug/L	1
91-20-3	8260B	260		25	0.70	ug/L	2
75-65-0	8260B	18	J	20	2.3	ug/L	1
108-88-3	8260B	0.68	J	5.0	0.24	ug/L	1
1330-20-7	8260B	82		5.0	0.32	ug/L	1
	994-05-8 71-43-2 762-75-4 107-06-2 108-20-3 624-95-3 64-17-5 100-41-4 637-92-3 1634-04-4 91-20-3 75-65-0 108-88-3 1330-20-7	994-05-8 71-43-2 8260B 71-43-2 8260B 762-75-4 8260B 107-06-2 8260B 108-20-3 8260B 624-95-3 8260B 64-17-5 8260B 100-41-4 8260B 637-92-3 8260B 1634-04-4 8260B 91-20-3 8260B 75-65-0 8260B 108-88-3 8260B	994-05-8 8260B ND 71-43-2 8260B 100 762-75-4 8260B ND 107-06-2 8260B ND 108-20-3 8260B ND 624-95-3 8260B ND 100-41-4 8260B ND 100-41-4 8260B 2.0 637-92-3 8260B ND 1634-04-4 8260B 5.5 91-20-3 8260B 260 75-65-0 8260B 18 108-88-3 8260B 0.68 1330-20-7 8260B 82	994-05-8 8260B ND 71-43-2 8260B 100 762-75-4 8260B ND 107-06-2 8260B ND 108-20-3 8260B ND 624-95-3 8260B ND 64-17-5 8260B ND 100-41-4 8260B 2.0 J 637-92-3 8260B ND 1634-04-4 8260B 91-20-3 8260B 91-20-3 8260B 18 J 108-88-3 8260B 0.68 J	994-05-8 8260B ND 10 71-43-2 8260B 100 5.0 762-75-4 8260B ND 5.0 107-06-2 8260B ND 5.0 108-20-3 8260B 1.1 J 5.0 624-95-3 8260B ND 20 64-17-5 8260B ND 100 100-41-4 8260B 2.0 J 5.0 637-92-3 8260B ND 1.0 1634-04-4 8260B 5.5 5.0 91-20-3 8260B 260 25 75-65-0 8260B 18 J 20 108-88-3 8260B 0.68 J 5.0 1330-20-7 8260B 82 5.0	994-05-8 8260B ND 10 0.25 71-43-2 8260B 100 5.0 0.21 762-75-4 8260B ND 5.0 0.66 107-06-2 8260B ND 5.0 0.23 108-20-3 8260B ND 5.0 0.26 624-95-3 8260B ND 20 1.5 64-17-5 8260B ND 100 19 100-41-4 8260B 2.0 J 5.0 0.21 637-92-3 8260B ND 1.0 0.13 1634-04-4 8260B 5.5 5.0 0.23 91-20-3 8260B 260 25 0.70 75-65-0 8260B 18 J 20 2.3 108-88-3 8260B 0.68 J 5.0 0.24 1330-20-7 8260B 82 5.0 0.32	994-05-8 8260B ND 10 0.25 ug/L 71-43-2 8260B 100 5.0 0.21 ug/L 762-75-4 8260B ND 5.0 0.66 ug/L 107-06-2 8260B ND 5.0 0.23 ug/L 108-20-3 8260B 1.1 J 5.0 0.26 ug/L 624-95-3 8260B ND 20 1.5 ug/L 64-17-5 8260B ND 100 19 ug/L 100-41-4 8260B 2.0 J 5.0 0.21 ug/L 637-92-3 8260B ND 1.0 0.13 ug/L 637-92-3 8260B ND 1.0 0.13 ug/L 1634-04-4 8260B 5.5 5.0 0.23 ug/L 91-20-3 8260B 260 25 0.70 ug/L 75-65-0 8260B 18 J 20 2.3 ug/L 108-88-3 8260B 0.68 J 5.0 0.24 ug/L 1330-20-7 8260B 82 5.0 0.32 ug/L

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130		91	70-130
Bromofluorobenzene		87	70-130		93	70-130
Toluene-d8		89	70-130		92	70-130

EDB & DBCP by Microextraction

Run Prep Method 1 8011	,		Prep Date 02/02/2016 1					
Parameter		CAS Number		Result Q	PQL	MDL	Units	Run
1,2-Dibromoethane (E	OB)	106-93-4	8011	0.13	0.020	0.0049	ug/L	1
Surrogate	Q %		eptance Limits					

Surrogate Q % Recovery Limits 1,1,1,2-Tetrachloroethane 117 57-137

PQL = Practical quantitation limit

B = Detected in the method blank

 $\label{eq:power_power} E = \mbox{Quantitation of compound exceeded the calibration range} \\ P = \mbox{The RPD between two GC columns exceeds 40\%}$

H = Out of holding timeN = Recovery is out of criteria

 $ND = Not \ detected \ at \ or \ above \ the \ MDL \qquad J = Estimated \ result < PQL \ and \ge MDL \qquad P = The \ RF \ Where \ applicable, \ all \ soil \ sample \ analysis \ are \ reported \ on \ a \ dry \ weight \ basis \ unless \ flagged \ with \ a \ "W"$

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Description: UST#11929 FB-1

Date Sampled:01/28/2016 1500 Date Received: 01/29/2016

Laboratory ID: RA29031-014 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		ysis Date Analyst /2016 1136 JM1	Prep Date	Batch 95468			
D .			CAS	Analytical	D !! 0	P.O.I	ME		
Parameter		Nun		Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)		75-8		8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)		994-0		8260B	ND	10	0.25	ug/L	1
Benzene		71-4		8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	1.5	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	20	2.3	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate		Run 1 /	Accep Li	tance mits					
1,2-Dichloroethane-d4		83	70-	130					
Bromofluorobenzene		87	70-	130					
Toluene-d8		90	70-	130					
	ED	B & DE	ЗСР	by Microexti	raction				

EDB & BBCI By Microcktraction											
Run Prep Method	Analytical Method	Dilution	Analy	sis Date Analyst	Prep Da	ite Batch					
1 8011	8011 8011 1 02/02/2016 1628 MEM 02					6 1010 95535					
		(CAS	Analytical							
Parameter		Num	nber	Method	Result C	PQL	MDL	Units	Run		
1,2-Dibromoethane (EDB)		106-9	93-4	8011	ND	0.019	0.0048	ug/L	1		
Surrogate	· · · · · · · · · · · · · · · · · · ·	Run 1 /	Accepta Lim								
1,1,1,2-Tetrachloroethane		83	57-13	37							

PQL = Practical quantitation limit ND = Not detected at or above the MDL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

H = Out of holding time N = Recovery is out of criteria

 $J = Estimated result < PQL and <math>\geq MDL$

P = The RPD between two GC columns exceeds 40% Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Description: TRIP BLANK Date Sampled:01/28/2016 Date Received: 01/29/2016

Laboratory ID: RA29031-015

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method Dilution 8260B 1	-	ysis Date Analyst /2016 1158 JM1	Prep Date	Batch 95468			
Parameter	Nu	CAS	Analytical Method	Result Q	PQL	MDL	Units	Run
tert-Amyl alcohol (TAA)	75	-85-4	8260B	ND	20	1.5	ug/L	1
tert-Amyl methyl ether (TAME)	994	-05-8	8260B	ND	10	0.25	ug/L	1
Benzene	71	-43-2	8260B	ND	5.0	0.21	ug/L	1
tert-Butyl formate (TBF)	762	-75-4	8260B	ND	5.0	0.66	ug/L	1
1,2-Dichloroethane	107	-06-2	8260B	ND	5.0	0.23	ug/L	1
Diisopropyl ether (IPE)	108	-20-3	8260B	ND	5.0	0.26	ug/L	1
3,3-Dimethyl-1-butanol	624	-95-3	8260B	ND	20	1.5	ug/L	1
Ethanol	64	-17-5	8260B	ND	100	19	ug/L	1
Ethylbenzene	100	-41-4	8260B	ND	5.0	0.21	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637	-92-3	8260B	ND	1.0	0.13	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634	-04-4	8260B	ND	5.0	0.23	ug/L	1
Naphthalene	91	-20-3	8260B	ND	5.0	0.14	ug/L	1
tert-butyl alcohol (TBA)	75	-65-0	8260B	ND	20	2.3	ug/L	1
Toluene	108	-88-3	8260B	ND	5.0	0.24	ug/L	1
Xylenes (total)	1330	-20-7	8260B	ND	5.0	0.32	ug/L	1
Surrogate	Run 1 Q % Recovery	Accept Lir	tance mits					
1,2-Dichloroethane-d4	83	70-1	130		_			
Bromofluorobenzene	87	70-1	130					
Toluene-d8	90	70-1	130					

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range H = Out of holding time

ND = Not detected at or above the MDL $J = Estimated result < PQL and <math>\geq MDL$ P = The RPD between two GC columns exceeds 40%Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" $\,$

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ95468-001 Batch: 95468

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q	Dil	PC	L ME	DL l	Jnits	Analysis Date
tert-Amyl alcohol (TAA)	ND		1	20	1.5	5 ı	ug/L	02/01/2016 1017
tert-Amyl methyl ether (TAME)	ND		1	10	0.2	25 ι	ug/L	02/01/2016 1017
Benzene	ND		1	5.0	0.2	21 ι	ug/L	02/01/2016 1017
tert-Butyl formate (TBF)	ND		1	5.0	0.0	ώ6 ι	ug/L	02/01/2016 1017
1,2-Dichloroethane	ND		1	5.0	0.2	23 ι	ug/L	02/01/2016 1017
Diisopropyl ether (IPE)	ND		1	5.0	0.2	26 ı	ug/L	02/01/2016 1017
3,3-Dimethyl-1-butanol	ND		1	20	1.5	5 t	ug/L	02/01/2016 1017
Ethanol	ND		1	10	0 19	ι	ug/L	02/01/2016 1017
Ethylbenzene	ND		1	5.0	0.2	21 ι	ug/L	02/01/2016 1017
Ethyl-tert-butyl ether (ETBE)	ND		1	1.0	0.1	13 ι	ug/L	02/01/2016 1017
Methyl tertiary butyl ether (MTBE)	ND		1	5.0	0.2	23 ι	ug/L	02/01/2016 1017
Naphthalene	ND		1	5.0	0.1	14 ι	ug/L	02/01/2016 1017
tert-butyl alcohol (TBA)	ND		1	20	2.3	3 ι	ug/L	02/01/2016 1017
Toluene	ND		1	5.0	0.2	24 ı	ug/L	02/01/2016 1017
Xylenes (total)	ND		1	5.0	0.3	32 ι	ug/L	02/01/2016 1017
Surrogate	Q % Rec		eptance imit					
Bromofluorobenzene	88	7	0-130					
1,2-Dichloroethane-d4	83	70	0-130					
Toluene-d8	89	70	0-130					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

 $J = Estimated result < PQL and <math>\geq MDL$

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ95468-002 Batch: 95468

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L) C) Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	730	1	73	70-130	02/01/2016 0918
tert-Amyl methyl ether (TAME)	50	49	1	98	70-130	02/01/2016 0918
Benzene	50	48	1	97	70-130	02/01/2016 0918
tert-Butyl formate (TBF)	250	230	1	90	70-130	02/01/2016 0918
1,2-Dichloroethane	50	47	1	95	70-130	02/01/2016 0918
Diisopropyl ether (IPE)	50	47	1	93	70-130	02/01/2016 0918
3,3-Dimethyl-1-butanol	1000	760	1	76	70-130	02/01/2016 0918
Ethanol	5000	3100	1	61	60-140	02/01/2016 0918
Ethylbenzene	50	50	1	100	70-130	02/01/2016 0918
Ethyl-tert-butyl ether (ETBE)	50	46	1	92	70-130	02/01/2016 0918
Methyl tertiary butyl ether (MTBE)	50	50	1	101	70-130	02/01/2016 0918
Naphthalene	50	47	1	93	70-130	02/01/2016 0918
tert-butyl alcohol (TBA)	1000	740	1	74	70-130	02/01/2016 0918
Toluene	50	49	1	99	70-130	02/01/2016 0918
Xylenes (total)	100	99	1	99	70-130	02/01/2016 0918
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	85	70-130				
1,2-Dichloroethane-d4	81	70-130				
Toluene-d8	89	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - MS

Sample ID: RA29031-011MS

Batch: 95468 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	130	5000	4100		5	79	70-130	02/01/2016 1813
tert-Amyl methyl ether (TAME)	ND	250	240		5	97	70-130	02/01/2016 1813
Benzene	140	250	390		5	99	70-130	02/01/2016 1813
tert-Butyl formate (TBF)	ND	1300	120	N	5	9.7	70-130	02/01/2016 1813
1,2-Dichloroethane	ND	250	240		5	97	70-130	02/01/2016 1813
Diisopropyl ether (IPE)	ND	250	230		5	94	70-130	02/01/2016 1813
3,3-Dimethyl-1-butanol	ND	5000	4100		5	82	70-130	02/01/2016 1813
Ethanol	ND	25000	25000		5	100	70-130	02/01/2016 1813
Ethylbenzene	310	250	560		5	99	70-130	02/01/2016 1813
Ethyl-tert-butyl ether (ETBE)	ND	250	220		5	89	70-130	02/01/2016 1813
Methyl tertiary butyl ether (MTBE)	ND	250	240		5	98	70-130	02/01/2016 1813
Naphthalene	100	250	330		5	90	70-130	02/01/2016 1813
tert-butyl alcohol (TBA)	19	5000	4700		5	94	70-130	02/01/2016 1813
Toluene	6.2	250	260		5	100	70-130	02/01/2016 1813
Xylenes (total)	8.9	500	510		5	100	70-130	02/01/2016 1813
Surrogate	Q % Re		eptance ₋ imit					
1,2-Dichloroethane-d4	82	7	0-130		<u></u>			
Bromofluorobenzene	87	7	0-130					

70-130

PQL = Practical quantitation limit

Toluene-d8

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

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Volatile Organic Compounds by GC/MS - MSD

Sample ID: RA29031-011MD

Batch: 95468

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	130	5000	4000		5	78	0.82	70-130	20	02/01/2016 1835
tert-Amyl methyl ether (TAME)	ND	250	240		5	96	1.9	70-130	20	02/01/2016 1835
Benzene	140	250	380		5	97	1.4	70-130	20	02/01/2016 1835
tert-Butyl formate (TBF)	ND	1300	110	Ν	5	8.9	8.3	70-130	20	02/01/2016 1835
1,2-Dichloroethane	ND	250	240		5	96	0.54	70-130	20	02/01/2016 1835
Diisopropyl ether (IPE)	ND	250	230		5	91	2.7	70-130	20	02/01/2016 1835
3,3-Dimethyl-1-butanol	ND	5000	4100		5	81	0.48	70-130	20	02/01/2016 1835
Ethanol	ND	25000	25000		5	99	0.82	70-130	20	02/01/2016 1835
Ethylbenzene	310	250	550		5	93	2.3	70-130	20	02/01/2016 1835
Ethyl-tert-butyl ether (ETBE)	ND	250	220		5	88	1.1	70-130	20	02/01/2016 1835
Methyl tertiary butyl ether (MTBE)	ND	250	240		5	94	3.7	70-130	20	02/01/2016 1835
Naphthalene	100	250	320		5	88	1.5	70-130	20	02/01/2016 1835
tert-butyl alcohol (TBA)	19	5000	4700		5	94	0.18	70-130	20	02/01/2016 1835
Toluene	6.2	250	250		5	98	1.9	70-130	20	02/01/2016 1835
Xylenes (total)	8.9	500	500		5	98	1.9	70-130	20	02/01/2016 1835
Surrogate	Q % Re	Acc C [eptance _imit							
1,2-Dichloroethane-d4	82	7	70-130							
Bromofluorobenzene	87	7	70-130							
Toluene-d8	89	7	70-130							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - MB

Sample ID: RQ95558-001 Batch: 95558

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
Naphthalene	ND	1	5.0	0.14	ug/L	02/02/2016 1031
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	92	70-130				
1,2-Dichloroethane-d4	91	70-130				
Toluene-d8	93	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS - LCS

Sample ID: RQ95558-002

Batch: 95558

Matrix: Aqueous Prep Method: 5030B

Analytical Method: 8260B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
Naphthalene	50	45	1	90	70-130	02/02/2016 0930
Surrogate	Q % Rec	Acceptance Limit				
Bromofluorobenzene	94	70-130				
1,2-Dichloroethane-d4	88	70-130				
Toluene-d8	91	70-130				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MB

Sample ID: RQ95535-001 Batch: 95535

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 02/02/2016 1010

Parameter	Result	Q Dil	PQL	MDL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.0050	ug/L	02/02/2016 1322
Surrogate	Q % Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane	97	57-137		_		

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - LCS

Sample ID: RQ95535-002 Batch: 95535 Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/02/2016 1010

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.22	1	88	60-140	02/02/2016 1333
Surrogate	Q % Rec	Acceptance Limit	Ż			
1,1,1,2-Tetrachloroethane	102	57-137				

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

EDB & DBCP by Microextraction - MS

Sample ID: RA29031-001MS

Batch: 95535

Matrix: Aqueous Prep Method: 8011

24(0)... 7000

Prep Date: 02/02/2016 1010

Analytical Method: 8011

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.22		1	93	60-140	02/02/2016 1404
Surrogate	Q % Re		ptance mit					
1,1,1,2-Tetrachloroethane	98	57	'-137					

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

EDB & DBCP by Microextraction - MSD

Sample ID: RA29031-001MD

Batch: 95535

Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

Prep Date: 02/02/2016 1010

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.23		1	92	0.67	60-140	20	02/02/2016 1414
Surrogate	Q % Red		ptance imit							
1,1,1,2-Tetrachloroethane	92	57	7-137							

PQL = Practical quantitation limit

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

+ = RPD is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody and Miscellaneous Documents

SHEALY ENVIRONMENTAL SERVICES, INC. Chain of Custody Record

106 Vantage Point Drive • West Columbia, SC 29172 Telephone No. 803-791-9700 Fax No. 803-791-9111 www.shealylab.com

56129

Number

Remarks / Cooler i.D. RA29031 820 Stiple | 1 8330 P OC Requirements (Specify) Quote No. Page Tine Time 91/07/ 1/25/16 Dele 14 Oate Amelysis (Attach tist If more space is needed) Receipt Tomp. Onknown Trum @ Micart. CJ Skin Irritant 🖾 Poison toe Peck inleptions No. / E-neil BOB (1108) Š #28 0 2/1 Possible Hazard Identification O Rammable 4. Labory part recoived by Received on los (Circle) IN SERS No of Containers by Proservative Type WB USE ONLY HOSH 3. Received by 1. Received by DIESTH-HOSE 2. Received ্ধ 10H ecant e05781 MICH C Return to Client (3-605posal by Lab Benton embyr <u>ال</u> 2 Shb! 꺯 Maint Tight ROW 100 June 166 21.60-J secash Sampler's Signature Note: All samples are retained for four weeks from receipt Leval V49/16 Report to Confect Sample Claposal S 11/0/16 Printed Name 150 Date 1074 4061 133 1475 000 unless other arrangements are made. Time 550/ 613 12.19 701 Turn ground Timo Required (Prior lab typnosal required for expedited ML) 3/187/ P.O. NO. Oak Carz Zip Code K16117 (Contains for each sample may be combined on one the.) State $\bar{\mathcal{Z}}$ Vandio 01-20 A. W. - C. 13 145 7 Murdo 6 ソーシラ Sample ID / Description MAN Famor Kydy C Rush (Spenify) 100 481 120 17.50 (-10011)k 4009 BLE -110 Reinquistryd by Retinguished by 68611 A 1939 1999 11929 11803 11949 11949 11949 61611

19,39

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Standard S

3. Helinguid

DISTRIBUTION: WHITE & YELLOW-Return to faboratory with Samplicies; FINK-FREGIÓBEN Capy

Document Number: F-AD-133 - Effective Date: 08-01-2014

HEALY

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Clerk

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Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive • West Columbia, SC 29172 Telephone No. 803-791-9700 Fax No. 803-791-9111 www.shealylab.com

56130 Number

Chem RILE	Report to Contact	Relightone No. / Email Julian & Millians	Cuote No.
		Analysis (Althor) for	is marked
Address 6004 Porders Coart	Sampler's Signations (No. 1999)	Antapass (Autaon ret in more aparate	Page 2 of L
37. State	N. WORM		
Project Name Ryty Trimhal	midsel May		RA29031
181		to Personalisms type	
Sample AD / Description (Continues for each sample may be combined on one inn.)	Superior Sup	- 1	Annunks / Cocier I.D.
4 # 11929 MW-14 198/16	116 1244 6	9	
11-WM PAPEL #	1905 111		
81. 4M PAPILE	6211		
	1500 1	A	
47.1		7	
100			
Tury Around Time Required (Prior No Approval required for expedition TAT.), Sample Disposes Standard D Bush (Speetty)	TriCeposal by Lab	PossitXe Hezard Kantilbanton Gnfan-Hazard - Ci Remnable - Ci Sain Imlant - Ci Poison - Ci	QC Requirements (Specify)
1 200		1. Pacatros by The Contract of the Contract of	June 700 48-
E. Februarish by The J. 2	SHELL	2 Presentation State (N. 3)	
2. Reshoushed by Transcon	5 50 50 50 50 50 50 50 50 50 50 50 50 50	3, Явсейний бу	Dalo
4. Rehraushed by	Date Time	4. Laboration received by	125/16 mm 520
Note: All samples are retained for four weeks fro unless other arrangements are mede.	our weeks from receipt is are made.	LAB LISE CIVILY Received on ice (Circle) (es) No Ice Pack Recei	Receipt Tarra. 7.17.°C
DISTRIBUTION: WHITE & YELLOW-Roum to laboratory was Sample(s): Plint-Reloadient Copy	Sample(s): PMC-Field/Cilent Copy		Cocument Number: F-AD-13S - Effective Date: 09-01-2014

Shealy Environmental Services, Inc. Document Number: ME0018C-03

Page 1 of t Effective Date: 01/16/2016 Expiry Date: 01/16/2021

Sample Receipt Checklist (SRC)

Client:	BIE	Cooler Inspected by/date: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Means o	f receipt: SI	SSI Client UPS FedEx Other
Yes 🗌	No 🔄	Were custody scals present on the cooler?
Yes 📗	No NA	2. If custody seals were present, were they intact and unbroken?
pH strip		Cl strip ID:
Cooler I	D/Original tempe	rature upon receipt/Derived (corrected) temperature upon receipt:
	<u> </u>	/ / °C / / °C / / °C
Method:	Temperature	
Method	of coolant:	Wet Ice Blue Ice Dry Ice None
Yes 🔲	No □ NA □	3. If temperature of any cooler exceeded 6.0°C, was Project Manager notified?
Yes [3]	No 🗆 NA 🗔	PM was notified by: phone / email / face-to-face (circle one).
Yes 🗇		4. Is the commercial courier's packing slip attached to this form?
Yes 🔲	No NA	5. Were proper custody procedures (relinquished/received) followed?
Yes 🗾		5a Were samples relinquished by client to commercial courier? 6. Were sample IDs listed on the COC?
Yes 🗸		7. Were sample IDs listed on all sample containers?
Yes 🔽		Were sample 10's listed on all sample containers? Was collection date & time listed on the COC?
Ycs 🗸		Was collection date & time listed on all sample containers?
Yes 🗾		10. Did all container label information (ID, date, time) agree with the COC?
Yes 🗾		11. Were tests to be performed listed on the COC?
Yes 🗾		12. Did all samples arrive in the proper containers for each test?
Yes 🖸	THE RESERVE TO A SECOND	13. Did all containers arrive in good condition (unbroken, lids on, etc.)?
Yes 📝	No 🗌	14. Was adequate sample volume available?
V [7	No 🗌	15. Were all samples received within ½ the holding time or 48 hours, whichever
Yes 🗷		comes first?
Yes	No 🔄	16. Were any samples containers missing?
Yes 🗌	No 🗸	17. Were there any excess samples not listed on COC?
	No NA	18. Were bubbles present >"pea-size" (1/4" or funm in diameter) in any VOA vials?
	No NV N	 Were all metals/O&G/HEM/nutrient samples received at a pH of <2?
Yes 🗌	No 🗌 NA 🛮	20. Were all cyanide and/or sulfide samples received at a pH >12?
Yes 📋	No NA	21. Were all applicable NH3/TKN/cyanide/phenol (<0.2mg/L) samples free of
Yes 🗌	No D NA D	residual chlorine? 22. Were collection temperatures documented on the COC for NC samples?
		23. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations,
Yes 🗆	No□ NA □	etc) correctly transcribed from the COC into the comment section in LIMS?
Yes 🗌	No 🔲	24. Was the quote number used taken from the container label?
Sample I	Preservation (N	fust be completed for any sample(s) incorrectly preserved or with headspace.)
Sample(s		were received incorrectly preserved and were adjusted
	ly in sample rece	iving with(H ₂ SO ₄ , HNO3, HCl, NaOH) using SR #
Sample(s		were received with bubbles >6 mm in diameter.
Sample(s)	were received with TRC >0.2 mg/L (If #21 is No)
Contract Con		G. 1/2 TZ CC 1-1 Jan
Sample(s		were not received at a pH of <2 and were adjusted accordingly using SR#
Sample la	bels applied by:	Make Verified by: Date: 村を Visilly
Comments		Version 1
	-	Maple
_		

APPENDIX D CONTRACTOR CHECKLIST

Title: Programmatic QAPP Revision Number: 2 Revision Date: April 2013 Page: 190 of 197

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	\checkmark		
2	Is UST Owner/Operator name, address, & phone number provided?	V		
3	Is name, address, & phone number of current property owner provided?			
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	√		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			V
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	√		
7	Has the facility history been summarized?			
8	Has the regional geology and hydrogeology been described?			
9	Are the receptor survey results provided as required?			
10	Has current use of the site and adjacent land been described?			
11	Has the site-specific geology and hydrogeology been described?			
12	Has the primary soil type been described?			
13	Have field screening results been described?			
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			
16	Has the monitoring well installation and development dates been provided?			
17	Has the method of well development been detailed?			V
18	Has justification been provided for the locations of the monitoring wells?			
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			V
20	Has the groundwater sampling methodology been detailed?	\checkmark		
21	Have the groundwater sampling dates and groundwater measurements been provided?	√		
22	Has the purging methodology been detailed?	V		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	V		
24	If free-product is present, has the thickness been provided?	V		
25	Does the report include a brief discussion of the assessment done and the results?	\		
26	Does the report include a brief discussion of the aquifer evaluation and results?			V
27	Does the report include a brief discussion of the fate & transport models used?			V

Title: Programmatic QAPP Revision Number: 2 Revision Date: April 2013 Page: 191 of 197

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			V
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			V
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2			
	Risk Evaluation)			
31	Have recommendations for further action been provided and explained?			
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			√
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	V		
34	Has the current and historical laboratory data been provided in tabular format?	V		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			V
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			√
37	Has the topographic map been provided with all required elements? (Figure 1)	√		
38	Has the site base map been provided with all required elements? (Figure 2)	V		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	V		
40	Has the site potentiometric map been provided? (Figure 5)			
41	Have the geologic cross-sections been provided? (Figure 6)			
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)			V
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	V		
45	Is the laboratory performing the analyses properly certified?	V		
46	Has the tax map been included with all necessary elements? (Appendix C)			
47	Have the soil boring/field screening logs been provided? (Appendix D)			V
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			\
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			√
50	Have the disposal manifests been provided? (Appendix G)	\		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			
52	Has all fate and transport modeling been provided? (Appendix I)			
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	V		

Title: Programmatic QAPP Revision Number: 2 Revision Date: April 2013 Page: 192 of 197

Explanation f	for missing and incom	plete information?	
			_
			_
			_
Project Veri	fier (signature)	7m R	-
	(print name)	Trevor J. Benton, P.G.	_
	Date	04.08.2016	



Catherine E. Heigel. Director Promoting and protecting the health of the public and the environment

June 23, 2016

MR THOMAS TRIPP FROEHLING & ROBERTSON INC 18 WOODS LAKE ROAD GREENVILLE SC 29607

Re: Concern Letter

Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC UST Permit #11929
Release #2 reported February 25, 1997
Letter of Concern request received June 9, 2016
Greenville County

Mr. Tripp:

In response to your request for information about environmental conditions and liability associated with the referenced facility, the following is provided.

According to records kept by the UST Management Division (Division) of the South Carolina Department of Health and Environmental Control (Agency), there were five USTs registered and operated at this facility by Lloyd D Auten. Agency records indicate that Lloyd D Auten removed these five tanks by abandonment on May 1, 1989. On February 25, 1997, the Agency received a report documenting petroleum contamination in the subsurface in the vicinity of the USTs. In response to the initial report of contamination, the Division directed Lloyd D Auten, as the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. As of August 17, 2006, the assessment of this release has been completed and has proceeded to corrective action. The next scope of work at this site is a groundwater sampling event.

The Division would also like to clarify for you the financial and liability issues surrounding the petroleum chemicals of concern at this facility. The release of petroleum products from UST Permit #11929 is qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs to up to \$1,000,000 can be paid by the SUPERB Account for site rehabilitation actions associated with this release.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.



The Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Agency should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

Due to the presence of the contaminant plume on the facility property, the Division advises against installing a water supply well for drinking, cooking, or bathing purposes. If you should choose to install a water supply well for these purposes at this time, it is at the discretion of the property owner.

On all correspondence or inquiries regarding this project, please reference UST Permit #11929. If you have any questions or need additional information, you can reach me at phone at (803) 898-0614 or by email at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT

Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

cc: Rechnical File

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Catherine E. Heigel, Director Promoting and protecting the health of the public and the environment

MS INGRID AUTEN C/O ANNIE MUMBAUER PO BOX 408 GREENVILLE SC 29602 JUL 1 8 2016

Re: Aggressive Fluid and Vapor Recovery Directive

Former Ryder Terminal, 10 Woods Lake Dr, Greenville, SC

UST Permit # 11929; CA# 52869 Release #2 reported February 25, 1997

Groundwater Sampling Report received April 13, 2016

Greenville County



Dear Ms. Auten:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc., as your contractor. The next appropriate scope of work is an aggressive fluid and vapor recovery (AFVR) event to remove residual free-phase product and reduce concentrations of chemicals of concern (CoC), followed by a gauging event.

Please have your contractor conduct two 96 hour AFVR events utilizing MW-4, MW-6, MW-15, and MW-17. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 27 feet in MW-4 & MW-6, and a target depth of 30 feet in MW-15 & MW-17. Please advance to the target depth within the first eight (8) hours of the events. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while continuing to dewater the smear zone. Off gas treatment is necessary for these events. After at least thirty (30) days following the second event, the referenced wells should be gauged for current free-phase product levels. These events must be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 3.0. A copy of the QAPP Revision 3.0 is available at

http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/Particles (Control of the Control of the

Cost Agreement #52869 has been approved in the amount shown on the enclosed cost agreement form for the AFVR event. AFVR activities may proceed immediately upon receipt of this letter, and must be performed by a South Carolina-Certified Underground Storage Tank Site Rehabilitation Contractor. All applicable South Carolina certification requirements apply to preparation of an AFVR report.

As soon as the beginning date of the event has been scheduled, please contact me at barneskt@dhec.sc.gov.

An AFVR report and invoice must be submitted to the Division within 90 days from the date of this letter. Your contractor may directly bill the State Underground Petroleum Environmental Response Bank (SUPERB) Account. Interim invoices may not be submitted for this scope of work. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this

invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from the Agency is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by the Agency for the cost to be paid. The Agency reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the Agency reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

On all correspondence concerning this facility, please reference UST Permit #11929 and Cost Agreement #52869. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0614, by fax at (803) 898-0673, or by e-mail at barneskt@dhec.sc.gov.

Sincerely,

Kevin T Barnes, GIT

Hydrogeologist

Corrective Action Section

Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc: Approved cost agreement form

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct, Greenville, SC 29615 (w/enc)

Technical File (w/ enc)

Approved Cost Agreement

52869

Facility: 11929 FORMER RYDER TERMINAL BARNESKT

PO Number

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
04 MOB/DEMOB				
	B1 PERSONNEL	1 0000	\$423 000	423 00
10 SAMPLE COLLECTION				
	E1 GAUGEWELL ONLY	4.0000	\$7.000	28.00
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0 1200	\$45,783 750	5,494 05
23 EFR				
	A4 96 HOUR EVENT	2 0000	\$12,567.500	25,135 00
	C4 OFF GAS TREATMENT 96 HOUR	2 0000	\$780 000	1,560 00
	D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
	E1 ADDITIONAL WELL HOOK-UPS	2 0000	\$25.750	51.50
	F1 EFFLUENT DISPOSAL	40,000.0000	\$0 440	17,600.00
	G AFVR EQUIPMENT MOB	2.0000	\$391.500	783.00
		Total Am	ount	51,277 80

July 18, 2016 Page 1 of 1 suprcait.rdf Rev: 1.15

Document Receipt Information

Hard Copy	СР СР	Email
Date Received	7-3-1	17
Permit Number	11929	
Project Manager	Kevin	Busnes
Name of Contractor _		
UST Certification Nun	nber	
Docket Number	35+	
Scanned		



GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF MULTIPLE AGGRESSIVE FLUID VAPOR RECOVERY EVENTS

FORMER RYDER TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #52869

Prepared For

Ms. Ingrid Auten C/O Ms. Annie Mumbauer BB&T Wealth Management P.O. Box 408 Greenville, South Carolina 29602

Prepared By

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-0010

January 31, 2017

BLE Project Number J16-1010-22



January 31, 2017

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Management Division 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Mr. Kevin T. Barnes, GIT

Hydrogeologist

Subject: Report of Multiple Aggressive Fluid Vapor Recovery Events

Former Ryder Terminal 10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929; CA #52869 BLE Project No. J16-1010-22

Dear Mr. Barnes:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed two Aggressive Fluid Vapor Recovery (AFVR) Events at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated July 18, 2016. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERING

Trevor J. Benton, P.G. Senior Hydrogeologist

Registered, South Carolina No. 2395

Thomas L. Lammons, P.G Principal Hydrogeologist

Registered, South Carolina No. 893

PHONE (864) 288-1265

(864) 288-4430

cc: Mr. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 296025



SITE INFORMATION

Facility Identification:

Facility Name Former Ryder Terminal

UST Permit Number 11929

Facility Address 10 Woods Lake Drive

Greenville, South Carolina 29607

Release Information:

Release #	Date Reported	Quantity	Cause	Status
1	January 5, 1990	Unknown	Unknown	No Further Action – January 5, 1990
2	February 25, 1997	Unknown	Unknown	Open

Responsible Party:

Name Ms. Ingrid Auten

Address PO Box 408

Greenville, South Carolina 29602

Property Owner Information:

Name Wheeler Properties, LLC

Address 10 Woods Lake Drive

Greenville, South Carolina 29607

Current Site Use: Vacant

UST Site Rehabilitation Contractor:

Name Bunnell-Lammons Engineering, Inc.

Address 6004 Ponders Court

Greenville, South Carolina 29615

Phone (864) 288-1265

Certification Number UCC-0010



AFVR Contractor Information:

AFVR Contractor Landprobe Drilling Services, LLC

Address PO Box 25608

Greenville, South Carolina 29616

UST System Summary:

UST #	Size (Gallons)	Product	Currently in use (Yes or No)	If not in use, Date Removed
1	20,000	Diesel	No	Removed – May 1, 1989
2	5,000	Diesel	No	Removed – May 1, 1989 May 1, 1989
3	6,000	Gasoline	No	Removed – May 1, 1989
4	5,000	Gasoline	No	Removed – May 1, 1989
5	550	Unknown	No	Removed – May 1, 1989

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

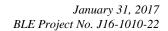
On September 28, 2016, BLE personnel mobilized to the facility to evaluate site access and to determine staging locations for the AFVR equipment. From October 3-7, 2016 and October 10-14, 2016, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform a 96-hour AFVR event. Personnel from BLE's Greenville, South Carolina office were on-site for observation and monitoring during the event. A site location map and an AFVR well location plan are provided as Figure 1 and 2, respectively. A summary of the AFVR events are provided below.

AFVR Event #1 – October 3-7, 2016

AFVR Well(s) MW-4, MW-6, MW-15, and MW-17

Gauged Well(s) MW-16 and MW-18

Pre-AFVR Free-Product 0.02-feet in MW-2, 1.03-feet in MW-6, 1.30-





Thickness feet in MW-15, and 0.17-feet in MW-17

Post-AFVR Free-Product <0.01-feet in MW-4, <0.01-feet in MW-6, 0.08-

Thickness feet in MW-15, and 2.01-feet in MW-17

Length of AFVR Event 96 hours

Total Volume of Liquid 4,041 gallons

Removed

Volume of Free-Product in 2.5 gallons

Holding Tank

Total Pounds of Free-Product 15.1 pounds

Recovered (Vapor)

Recovered (Vapor)

Total Gallons of Free-Product 2.4 gallons

General Weather Conditions 10/03/16 – Clear, Average 73°F

10/04/16 - Clear, Average 72°F 10/05/16 - Clear, Average 69°F 10/06/16 - Clear, Average 68°F 10/07/16 - Rain, Average 66°F

Pertinent data collected throughout the AFVR event is included in Table 1 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

AFVR Event #1 – October 3-7, 2016

AFVR Well(s) MW-4, MW-6, MW-15, and MW-17

Gauged Well(s) MW-16 and MW-18

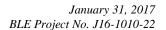
Pre-AFVR Free-Product <0.01-feet in MW-2, <0.01-feet in MW-6, 0.08-

Thickness feet in MW-15, and 2.01-feet in MW-17

Post-AFVR Free-Product <0.01-feet in MW-4, <0.01-feet in MW-6, 0.03-

Thickness feet in MW-15, and 0.48-feet in MW-17

Length of AFVR Event 96 hours





Total Volume of Liquid Removed	2,971 gallons
Volume of Free-Product in Holding Tank	1.5 gallons
Total Pounds of Free-Product Recovered (Vapor)	5.1 pounds
Total Gallons of Free-Product Recovered (Vapor)	0.8 gallons
General Weather Conditions	10/10/16 – Clear, Average 63°F 10/11/16 - Clear, Average 61°F 10/12/16 - Clear, Average 60°F 10/13/16 – Clear, Average 66°F 10/14/16 – Rain, Average 66°F

Pertinent data collected throughout the AFVR event is included in Table 2 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

POST AFVR GAUGING

On November 22, 2016, BLE personnel mobilized to the site to gauge free product and/or groundwater in monitoring wells MW-4, MW-6, MW-15, and MW-17. The following table documents the free product / groundwater levels.

Monitoring Well ID	Depth to Free-Product (feet-below ground surface)	Depth to Groundwater (feet-below ground surface)	Free-Product Thickness (feet)
MW-4	24.85	25.00	0.15
MW-6	26.18	26.71	0.53
MW-15	24.66	25.17	0.51
MW-17	25.18	25.96	0.76

CONCLUSIONS

Two 96-hour AFVR events were conducted on monitoring wells on MW-4, MW-6, MW-15, and MW-17 at the subject site. At the completion of the AFVR events, a total volume of 7,012-gallons

BLE

Report of Multiple AFVR Events Former Ryder Terminal UST Permit #19129; CA #52869

of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 4.0 gallons of free-phase petroleum product was measured in the holding tanks and 3.2 gallons of gasoline were calculated to have been recovered via vapor-phase emissions. Additional petroleum product emulsified in the groundwater and/or volatilized during the AFVR event, could not be quantified.

RECOMMENDATIONS

As free-product continues to persist in monitoring wells MW-4, MW-6, MW-15, and MW-17, we recommend performing two additional 96-hour AFVR events to: 1) remove free-phase and residual free-phase petroleum product from the area around the extraction points, 2) remove petroleum hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater from the subsurface.

Approximately thirty days after completion of the AFVR events, we recommend a comprehensive groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current site-wide CoC concentration data, and to monitor CoC concentration trends.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

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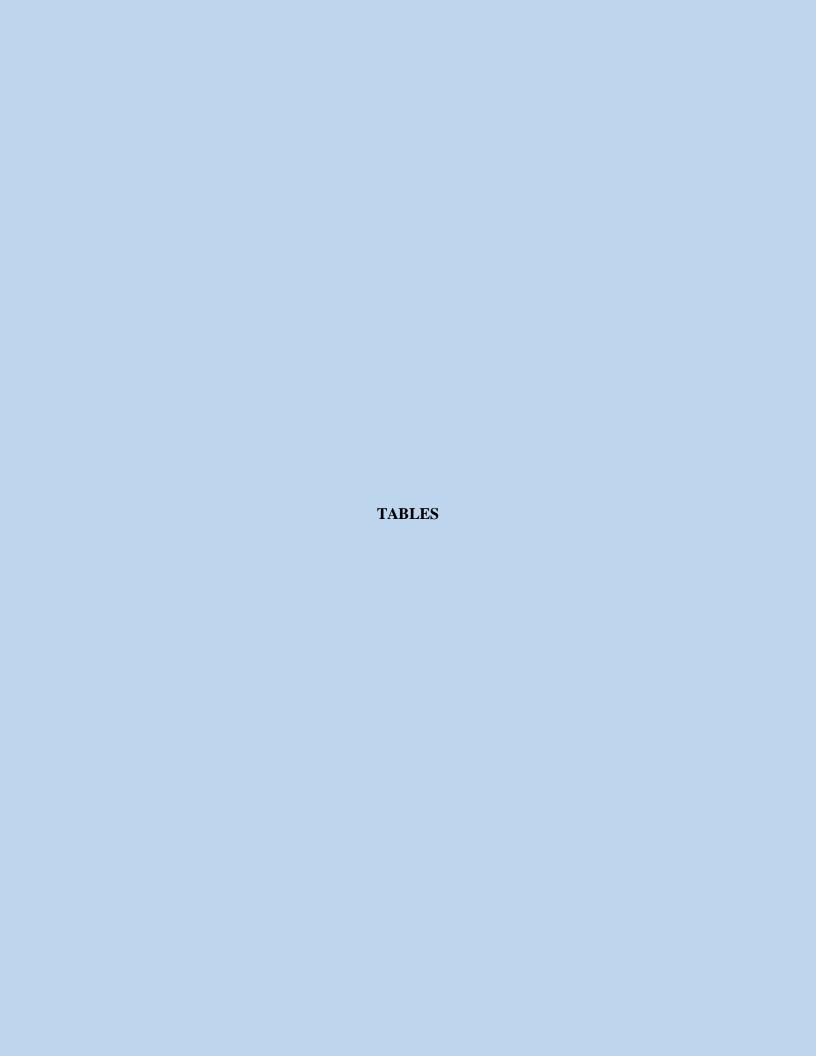


TABLE 1

AFVR Event Data October 3-7, 2016 Former Ryder Terminal Greenville, Greenville County, SC SCDHEC UST Permit #11929; Cost Agreement #52869 BLE Project Number J16-1010-22

				Monitoring Well Gauging Data										AFVR Field Measurements Air Emissions					
							Monitoring We	ll Gauging Data						AFVR Field Me	asurements	ī		Air Emissions	_
				AFVR We (in. o	ll Vacuum f Hg)			AFVR Well S (feet	tinger Depths btoc)	T	Adjacent W (in. o	ell Vacuum f Hg)	Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW16	11929-MW18	(iii. Iig)	(1)	(%)	(It/IIII)	(CIM)	(ррш)	(ppm)
10/03/16	10:00	0.0	12.0	15.0	15.0	11.0	23.0	25.0	24.0	23.5	0.0	0.0	17.0	95.1	86.2	2,165	189	229.9	0.0
10/03/16	10:30	0.5	13.0	16.0	17.0	11.0	23.5	25.5	24.5	24.0	0.0	0.0	17.0	115.7	88.7	1,922	168	150.7	0.0
10/03/16	11:00 11:30	1.0	13.0 14.0	17.0 18.0	17.0 17.0	11.0 11.0	24.0 24.5	26.0 26.5	25.0 25.5	24.5 25.0	0.0	0.0	18.0 18.0	126.3 126.7	89.2 90.1	1,541 1,769	134 154	110.3 98.2	0.0
10/03/16	12:00	2.0	15.0	18.0	17.0	11.0	25.0	27.0	25.5	25.5	0.0	0.0	18.0	126.2	90.1	1,769	116	98.2	0.0
10/03/16	12:30	2.5	15.0	18.0	17.0	11.0	25.5	27.0	26.5	26.0	0.0	0.0	19.0	124.5	88.6	1,445	126	132.8	0.0
10/03/16	13:00	3.0	15.0	18.0	17.0	11.0	26.0	27.0	27.0	26.5	0.0	0.0	18.0	125.1	89.1	1,524	133	141.2	0.0
10/03/16	13:30	3.5	15.0	18.0	16.0	11.0	26.5	27.0	27.5	27.0	0.0	0.0	18.0	125.0	89.6	1,497	131	137.8	0.0
10/03/16	14:00	4.0	15.0	18.0	15.0	11.0	27.0	27.0	28.0	27.5	0.0	0.0	18.0	125.4	83.7	1,784	156	149.3	0.0
10/03/16	14:30 15:00	4.5 5.0	14.0 14.0	17.0 17.0	15.0 15.0	11.0 11.0	27.0 27.0	27.0 27.0	28.5 29.0	28.0 28.5	0.0	0.0	18.0 17.5	124.4 122.7	85.9 85.3	1,895 1,919	165 167	157.3 104.7	0.0
10/03/16	15:30	5.5	14.0	17.0	15.0	11.0	27.0	27.0	29.5	29.0	0.0	0.0	17.5	120.8	81.9	2.063	180	111.9	0.0
10/03/16	16:00	6.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	29.5	0.0	0.0	17.5	119.5	82.7	2,165	189	118.7	0.0
10/03/16	16:30	6.5	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	17.5	120.2	84.6	1,762	154	112.4	0.0
10/03/16	17:00	7.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	124.5	87.7	1,687	147	121.7	0.1
10/03/16	17:30 18:00	7.5 8.0	14.0 14.0	17.0 17.0	17.0 17.0	11.0 11.0	27.0 27.0	27.0 27.0	30.0 30.0	30.0 30.0	0.0	0.0	18.0 18.0	122.7 124.9	88.1 88.3	1,733 2,062	151 180	104.3 106.9	0.1
10/03/16	19:00	9.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	123.7	86.5	1,834	160	100.9	0.1
10/03/16	20:00	10.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	122.8	84.8	1,769	154	104.3	0.1
10/03/16	21:00	11.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	122.7	85.3	1,844	161	105.2	0.1
10/03/16	22:00	12.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	20.0	118.4	82.6	1,624	142	104.1	0.1
10/03/16	23:00	13.0	14.0	17.0	17.0	11.0	27.0	27.0	30.0	30.0	0.0	0.0	20.0 17.0	112.2	76.5	2,165	189	100.2	0.1
10/04/16	00:00 08:00	14.0 22.0	14.0 14.0	17.0 17.0	17.0 17.0	11.0 11.0	27.0 25.0	27.0 25.0	30.0 28.0	30.0 28.0	0.0	0.0	17.0	110.4 100.3	81.9 82.7	2,233 2,119	195 185	101.9 97.8	0.1
10/04/16	09:00	23.0	14.0	17.0	17.0	11.0	25.5	25.5	28.5	28.5	0.0	0.0	17.0	112.7	85.6	2,065	180	96.3	0.1
10/04/16	10:00	24.0	17.0	17.0	17.0	17.0	26.0	26.0	29.0	29.0	0.0	0.0	20.0	124.6	89.9	2,116	193	97.4	0.1
10/04/16	12:00	26.0	20.0	17.0	20.0	22.0	26.5	26.5	29.5	29.5	0.0	0.0	23.0	126.8	94.3	2,214	192	98.6	0.1
10/04/16	14:00	28.0	17.0	21.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	130.1	62.9	2,202	231	113.0	11.7
10/04/16	16:00 18:00	30.0 32.0	17.0 17.0	20.0 16.0	17.0 17.0	17.0 17.0	27.0 27.0	27.0 27.0	30.0 30.0	30.0 30.0	0.0	0.0	22.0 17.0	121.3 127.0	74.6 84.5	2,645 2,467	215 187	91.4 155.5	5.7 0.9
10/04/16	20:00	34.0	14.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	137.0	84.5	2,467	189	126.9	3.3
10/04/16	22:00	36.0	14.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	19.0	74.6	82.6	2,165	168	97.8	3.1
10/05/16	00:00	38.0	14.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	84.7	84.7	1,921	176	96.7	4.2
10/05/16	08:00	46.0	14.0	17.0	14.0	17.0	25.0	25.0	28.0	28.0	0.0	0.0	22.0	92.9	88.9	2,016	148	94.7	4.2
10/05/16	10:00	48.0	20.0	17.0	18.0	20.0	25.5	25.5	28.5	28.5	0.0	0.0	22.0	100.4	89.9	1,692	148	96.9	4.2
10/05/16 10/05/16	12:00 14:00	50.0 52.0	17.0 15.0	15.0 17.0	17.0 17.0	20.0 17.0	26.0 26.5	26.0 26.5	29.0 29.5	29.0 29.5	0.0	0.0	22.0 18.0	137.3 133.7	87.5 88.8	1,696 2,422	211 100	91.5 78.6	4.2 5.7
10/05/16	16:00	54.0	15.0	16.0	17.0	16.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	137.0	87.0	1,150	157	108.4	7.2
10/05/16	18:00	56.0	15.0	15.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	131.5	89.0	1,799	196	140.7	8.4
10/05/16	20:00	58.0	15.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	134.2	88.5	2,250	147	138.6	8.2
10/05/16	22:00	60.0	15.0	17.0	17.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	18.0	129.6	89.1	1,690	186	129.4	7.9
10/06/16	00:00 08:00	62.0 70.0	15.0 15.0	17.0 17.0	17.0 17.0	17.0 17.0	27.0 25.0	27.0 25.0	30.0 28.0	30.0 28.0	0.0	0.0	18.0 20.0	131.7 124.8	87.3 92.6	2,130 2,062	180 171	99.3 98.1	8.0 8.0
10/06/16	10:00	70.0	15.0	17.0	17.0	17.0	25.0	25.0 25.5	28.0	28.0	0.0	0.0	20.0	124.8	92.6	1,964	1/1	98.1	8.0 8.0
10/06/16	12:00	74.0	15.0	17.0	20.0	17.0	26.0	26.0	29.0	29.0	0.0	0.0	20.0	132.6	94.3	1,923	214	92.7	8.0
10/06/16	14:00	76.0	17.0	21.0	19.0	17.0	26.5	26.5	29.5	29.5	0.0	0.0	22.0	124.5	88.5	2,457	164	225.7	5.8
10/06/16	16:00	78.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	22.0	137.1	88.0	1,877	144	167.7	6.4
10/06/16	18:00	80.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	134.0	87.5	1,647	90	174.2	7.9
10/06/16 10/06/16	20:00 22:00	82.0 84.0	17.0 17.0	20.0	19.0	17.0 17.0	27.0 27.0	27.0 27.0	30.0 30.0	30.0 30.0	0.0	0.0	21.0 21.0	146.0 137.9	88.3 81.6	1,034 1,060	93 108	121.9 176.8	7.9 8.4
10/06/16	00:00	84.0 86.0	17.0	20.0	19.0 19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	105.6	78.3	1,060	147	180.3	8.4
10/07/16	08:00	94.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	115.7	79.9	1,684	178	167.2	8.6
10/07/16	10:00	96.0	17.0	20.0	19.0	17.0	27.0	27.0	30.0	30.0	0.0	0.0	21.0	124.8	78.7	2,036	164	152.9	8.8

Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
11929-MW04	22.98	23.00	0.02	NFPP	25.65	NFPP	2.65
11929-MW06	24.22	25.25	1.03	NFPP	28.16	NFPP	2.91
11919-MW15	22.70	24.00	1.30	27.04	27.12	0.08	3.12
11929-MW17	23.41	23.58	0.17	24.41	26.42	2.01	2.84
11929-MW16	NFPP	22.47	NFPP	NFPP	23.12	NFPP	0.65
11929-MW18	NFPP	23.47	NFPP	NFPP	24.19	NFPP	0.72

Recovery Information	
Total Volume of Water (gallons)	4,041
Total Volume of FPP (gallons)	2.5
Total Calculated Carbon Recovered as Emissions (pounds)	13.0
Total Calculated Gasoline Recovered as Emissions (pounds)	15.1
Total Calculated Gasoline Recovered as Emissions (gallons)	2.4

Notes: 4-inch diameter stack size

es: 4-inch diameter stack size
btoc - below top of casing
Vapor concentrations measured with portable Ion Science PhoCheck 1000.
PID - Photo - Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160
Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFP - No Free Phase Product
°F - Fahrenheit
CFM - Cubic Feet per Minute
FPP - Free-Phase Product

TABLE 2

AFVR Event Data October 10-14, 2016 Former Ryder Terminal Greenville, Greenville County, SC SCDHEC UST Permit #11929; Cost Agreement #52869 BLE Project Number J16-1010-22

				Monitoring Well Gauging Data										AFVR Field Me	easurements			Air Emissions	
				AFVR Wel				AFVR Well S	tinger Depths btoc)		-	Vell Vacuum of Hg)	Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity	Velocity (ft/min)	Airflow (CFM)	Influent	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW04	11929-MW06	11919-MW15	11929-MW17	11929-MW16	11929-MW18	(III. 11g)	(F)	(%)	(IOIIII)	(CFM)	(ppm)	(ррш)
10/10/16	16:00	0.0	17.0	17.0	19.0	20.0	25.5	28.0	27.0	26.5	0.0	0.0	22.0	107.8	93.7	594	52	86.0	5.6
10/10/16	16:30	0.5	17.0	17.0	19.0	20.0	26.0	28.5	27.5	27.0	0.0	0.0	22.0	111.0	94.0	570	50	103.9	4.0
10/10/16	17:00	1.0	17.0	17.0	19.0	20.0	26.5	29.0	28.0	27.5	0.0	0.0	22.0	111.0	93.6	690	60	92.1	1.7
10/10/16 10/10/16	17:30 18:00	1.5 2.0	17.0 17.0	17.0 17.0	20.0	21.0 21.0	27.0 27.0	29.0 29.0	28.5 29.0	28.0 28.5	0.0	0.0	22.0 22.0	108.9 161.2	93.2 92.1	750 484	65 42	88.8 90.0	6.4
10/10/16	18:30	2.5	17.0	17.0	20.0	20.0	27.0	29.0	29.5	29.0	0.0	0.0	22.0	107.6	93.1	520	45	96.4	6.2
10/10/16	19:00	3.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	29.5	0.0	0.0	22.0	108.5	93.6	680	59	93.2	3.0
10/10/16	19:30	3.5	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.9	94.0	640	56	77.2	1.6
10/10/16	20:00	4.0	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.9	94.0	620	54	66.3	14.9
10/10/16	20:30	4.5	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	98.8	95.0	520	45	87.6	3.5
10/10/16 10/10/16	21:00 21:30	5.0	18.0 18.0	17.0 17.0	19.0 19.0	20.0	27.0 27.0	29.0 29.0	30.0 30.0	30.0 30.0	0.0	0.0	22.0 22.0	98.4 96.6	94.3 94.0	490 430	43 38	81.0 93.6	2.2
10/10/16	22:00	6.0	18.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	103.1	93.5	471	41	87.2	4.1
10/10/16	22:30	6.5	15.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	103.6	92.6	571	50	98.3	1.3
10/10/16	23:00	7.0	16.0	17.0	19.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	103.3	93.4	448	39	100.6	1.2
10/10/16	23:30	7.5	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	101.1	94.0	516	45	98.4	2.2
10/10/16	00:00	8.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.5	102.4	93.6	895	78	91.6	2.4
10/11/16 10/11/16	08:00 09:00	16.0 17.0	18.0 18.0	17.0 17.0	20.0	19.0 20.0	25.0 25.5	27.0 27.5	28.0 28.5	28.0 28.5	0.0	0.0	22.0 22.0	102.2 104.7	94.5 93.6	1,405 881	123 77	85.5 71.2	2.5 0.6
10/11/16	10:00	18.0	18.0	17.0	20.0	21.0	26.0	28.0	29.0	29.0	0.0	0.0	22.0	104.7	94.0	1,121	98	96.6	2.3
10/11/16	11:00	19.0	19.0	17.0	20.0	22.0	26.5	28.5	29.5	29.5	0.0	0.0	22.5	108.5	94.5	779	68	89.0	1.5
10/11/16	12:00	20.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.5	109.8	95.0	810	71	97.4	1.6
10/11/16	13:00	21.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	108.5	94.8	1,167	102	98.6	3.2
10/11/16	14:00	22.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	125.6	67.4	1,121	98	91.9	4.8
10/11/16 10/11/16	15:00 16:00	23.0	18.0 18.0	17.0 17.0	21.0	21.0 21.0	27.0 27.0	29.0 29.0	30.0 30.0	30.0 30.0	0.0	0.0	22.0 22.0	115.3 121.8	94.0 89.3	780 584	68 51	92.8 81.3	1.1
10/11/16	18:00	26.0	18.0	17.0	20.0	21.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	115.2	95.5	521	45	92.5	1.5
10/11/16	20:00	28.0	18.0	16.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	21.0	104.4	93.6	576	50	100.0	1.6
10/11/16	22:00	30.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	105.8	94.0	846	74	95.7	2.0
10/12/16	00:00	32.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.9	95.2	762	66	97.2	1.8
10/12/16 10/12/16	08:00 10:00	40.0 42.0	18.0 18.0	17.0 17.0	20.0	20.0	25.0 25.5	27.0 27.5	28.0 28.5	28.0 28.5	0.0	0.0	22.0 22.0	102.4 107.3	93.7 94.3	655 641	57 56	97.5 100.9	1.7 1.7
10/12/16	12:00	44.0	18.0	17.0	20.0	20.0	26.0	28.0	29.0	29.0	0.0	0.0	22.0	115.0	93.8	1,259	110	105.2	2.1
10/12/16	14:00	46.0	18.0	17.0	20.0	21.0	26.5	28.5	29.5	29.5	0.0	0.0	22.0	125.9	68.5	858	75	98.2	3.0
10/12/16	16:00	48.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	112.4	94.9	1,031	90	75.4	3.1
10/12/16	18:00	50.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	109.6	95.5	1,162	101	77.6	2.9
10/12/16	20:00	52.0 54.0	18.0	17.0	20.0	22.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	106.1 103.7	94.5 94.6	872	76 54	94.2 96.3	3.1
10/12/16 10/13/16	22:00 00:00	54.0 56.0	18.0 18.0	17.0 17.0	20.0	22.0 21.0	27.0 27.0	29.0 29.0	30.0 30.0	30.0 30.0	0.0	0.0	22.0 22.0	98.7	94.6	624 1.080	54 94	96.3 79.4	1.8
10/13/16	08:00	64.0	18.0	17.0	20.0	21.0	25.0	27.0	28.0	28.0	0.0	0.0	22.0	98.7	94.5	1,112	97	87.4	2.8
10/13/16	10:00	66.0	18.0	17.0	20.0	21.0	25.5	27.5	28.5	28.5	0.0	0.0	22.0	104.8	94.9	1,167	102	83.9	4.9
10/13/16	12:00	68.0	18.0	17.0	20.0	20.0	26.0	28.0	29.0	29.0	0.0	0.0	22.0	114.8	93.8	1,204	105	84.5	1.7
10/13/16	14:00	70.0	18.0	17.0	20.0	19.0	26.5	28.5	29.5	29.5	0.0	0.0	22.0	129.6	64.0	1,056	92	97.6	3.8
10/13/16	16:00	74.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	123.4	65.6	724	63	91.8	3.8
10/13/16 10/13/16	18:00 20:00	74.0 76.0	18.0 18.0	17.0 17.0	20.0	20.0	27.0 27.0	29.0 29.0	30.0 30.0	30.0 30.0	0.0	0.0	22.0 22.0	119.8 103.8	65.7 94.6	1,007 917	88 80	78.2 60.8	3.8 5.7
10/13/16	20:00	78.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	103.8	94.6	810	71	68.6	4.2
10/14/16	00:00	80.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	66.8	93.7	746	65	29.5	0.5
10/14/16	08:00	88.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	102.4	93.6	774	68	65.7	2.2
10/14/16	10:00	90.0	17.0	17.0	20.0	19.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	108.6	94.6	820	72	92.3	2.1
10/14/16	12:00	92.0	18.0	17.0	20.0	20.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	110.0	91.2	1,167	102	77.6	3.1
10/14/16 10/14/16	14:00 16:00	94.0 96.0	18.0	17.0	20.0	19.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0 22.0	111.0 112.0	94.4 92.1	812 988	71 70	82.2 87.3	4.9 2.4
10/14/10	10:00	90.0	18.0	17.0	20.0	19.0	27.0	29.0	30.0	30.0	0.0	0.0	22.0	112.0	92.1	988	/0	81.3	2.4

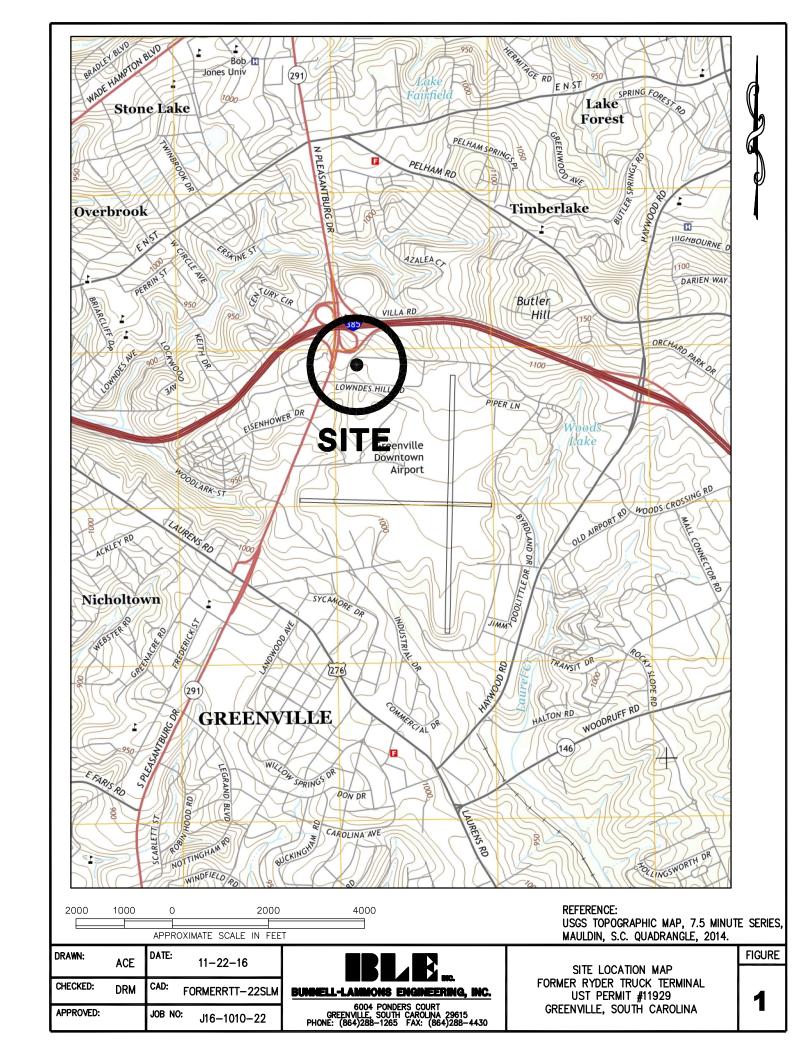
Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
11929-MW04	NFPP	25.63	NFPP	NFPP	26.55	NFPP	0.92
11929-MW06	NFPP 28.16		NFPP	NFPP	29.55	NFPP	1.39
11919-MW15	27.04	27.12	0.08	28.00	28.03	0.03	0.91
11929-MW17	24.41	26.42	2.01	26.72	27.20	0.48	0.78
11929-MW16	NFPP	25.19	NFPP	NFPP	26.24	NFPP	1.05
11929-MW18	NFPP	26.02	NFPP	NFPP	27.25	NFPP	1.23

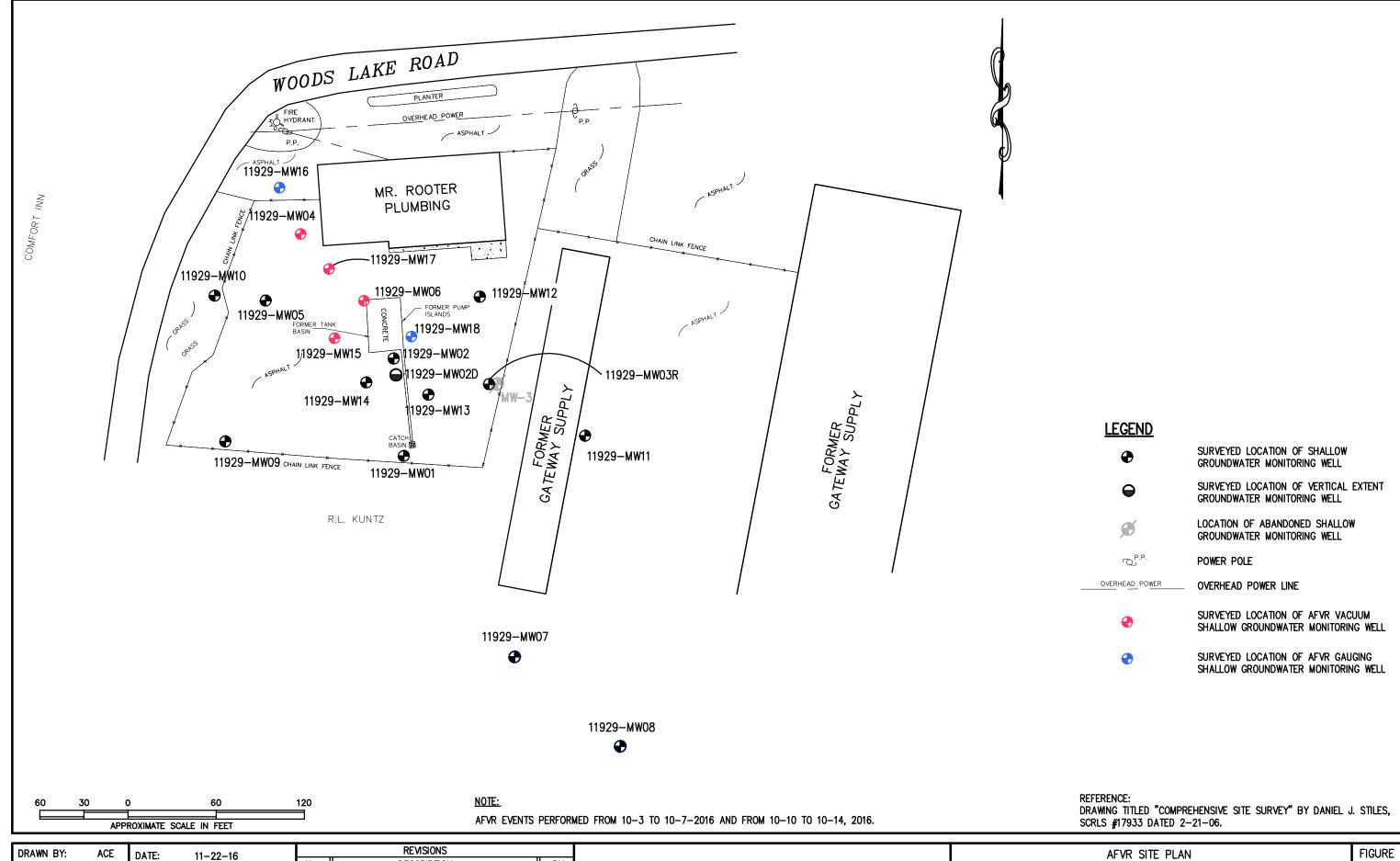
Recovery Information	
Total Volume of Water (gallons)	2,971
Total Volume of FPP (gallons)	1.5
Total Calculated Carbon Recovered as Emissions (pounds)	4.4
Total Calculated Gasoline Recovered as Emissions (pounds)	5.1
Total Calculated Gasoline Recovered as Emissions (gallons)	0.8

Notes: 4-inch diameter stack size

es: 4-inch diameter stack size
btoc - below top of casing
Vapor concentrations measured with portable Ion Science PhoCheck 1000.
PID - Photo - Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160
Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFP - No Free Phase Product
°F - Fahrenheit
CFM - Cubic Feet per Minute
FPP - Free-Phase Product







DRAWN BY:	ACE	DATE:	11-22-16	REVISIONS						
		DAIL.	11-22-10	No. DESCRIPTION		BY				
CHECKED BY:	DRM	FILE:	FORMERRTT-22AFVR							
APPROVED BY:		JOB NO:	J16-1010-22							



6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430 FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

7



APPENDIX A WASTE TRANSPORTATION AND DISPOSAL RECORDS



NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2	. Page 1 of 3. Eme	rgency Respons	e Phone	4. Waste Ti	racking Numi	6B
5. Generator's Name and Mallin Generator's Phone 254-288-	BUNNELL-LAN 6004 PONDER GREENVILLE	MONIENG, INC - RYDE S COURT SC 23615	R TERMINAL		TERMII	t than mailing addr NAL UST# 119 DAD 9515	THE OWNER OF THE OWNER OWNER OF THE OWNER	
6. Transporter 1 Company Nam	e Tribal Arabata	AL SERVICE	letany Najarana	erani Varanju i Abra	talaje (C	U.S. EPA ID I		1000771725
7. Transporter 2 Company Nam	6			A		U.S. EPA ID I	Number	
11.00	MAULDIN,	VERY SERVICES, LLC N STREET SC 29652	e of a facetion	egotyses by t	3 P	U.S. EPA ID I		2000762469
Facility's Phone: 864-962-99 9. Waste Shipping Name				10. Conta		11. Total Quantity	12. Unit	
1. NON HAZ NON WELL WATER #21147	REGULATED R	ydes terminal screenilly oc ust 119	24	No.	Туре	4,000	G A	
2.								
3.								
4.								
13. Special Handling Instructions PAU: TUESDAY 10.11.20 14. GENERATOR'S/OFFEROR'S	16 CERTIFICATION: I hereby d	sclare that the contents of this con	signment are fully an	d accurately des	cribed abov	re by the proper sh	ipping name,	and are classified, packaged,
Generator's/Offeror's Printed/Type	Busnick		Signature	SHE	du,			Month Day Year
Transporter Signature (for exports		LJ Ex	port from U.S.	Port of ent	-			
Transporter 2 Printed/Typed Name	emy Sou	~	Signature Signature	R	-			Month Day Year Month Day Year
17a. Discrepancy Indication Space	Quantity baxd or	□ Type	Manie	Residue	umhar	Partial Reje	ection	Full Rejection
17b. Alternate Facility of General			mani	est i Morolloo IV		U.S. EPA ID N	umber	
Facility's Phone: 17c. Signature of Alternate Facility	(or Generator)					1		Month Day Year
17c. Signature of Alternate Facility								
18. Designated Facility Owner or C Printed/Typed Name		ot of materials covered by the manif	fest except as noted Signature	in Item 17a	d	1		Month Day Year
· · · · · · · · · · · · · · · · · · ·	Heren	woom	Jagriature		n	h		1/0/11/16

53176

SCALE TICKET

10/12/2016 Progressive	11:46Ah 2173
RcPD I.D. number	\$ 2445 3
Gross	69940 11
Tare(1)	36240
* Preset weight	
let	33700 11

Scale Company: UUS
Weighed By: Ray
Carrier: SBINS
Customer:
PO/BOL/Manifest_
Tractor Number: 2445
Trailer Number: 3/
Driver Signature:

WHITE - Driver YELLOW - Driver CARD - Scale



	-	-	d. Commenter ID blomb	11 - 627	la = l =	<u> </u>					
	1	NON-HAZARDOUS WASTE MANIFEST	Generator ID Number		2. Page 1 of 3.	Emergency Respons	se Phone	4. Maste	racking Nu	nber	
	П	Generator's Name and Maili	ing Address		Ge	enerator's Site Addre	ss (if differen	t than mailing add	ress)		
		Generator's Phone:	6004 PONDERS		DER TERMIN	FMR RYDE 10 WOODS GREENVILL	LAKE R		1929		
	П	6. Iransporter 1 Company Nan	me			State in the second		U.S. EPA ID	Number		
Š	П		SPARKS INDUSTRIAL	. SERVICE	=W.13				S	R000771725	
	П	7. Transporter 2 Company Nam	ne					U.S. EPA ID	Number		
		Designated Facility Name an Security to Phone: 954 057 067	VLS RECOVE 305 S. MAIN : MAULDIN, SC	ERY SERVICES, LLC STREET 29662				U.S. EPA ID		CR000762468	
1	lŀ	Facility's Phone: 854-952-9 5	500						T T		
		9. Waste Shipping Name	and Description			10. Conta		11. Total	12. Unit		
Н	100	1		0		No.	Type	Quantity	Wt./Vol.		
CENEDATOR	ENAIOR	WELL WATER #21147	N REGULATED	Ryder touch Greenville, sc	J-11929	001	π	3,000	G		
198		2.									
		3.	·								
		4.								15 4 A	
П	13	. Special Handling Instructions	and Additional Information								
П		P/U:									
П		FRIDAY 11.04.2016		, 1							
				11	na. V&	,					
				1.1	JU VO						
	14	GENERATOR'S/OFFEROR'S	CERTIFICATION: I hereby declar	a that the contents of this co	prigram and are 6.11	ho and a constitution					
	'"	marked and labeled/placarded	CERTIFICATION: I hereby declared, and are in all respects in proper	condition for transport accor	rding to applicable	ly and accurately des e international and na	cribed above tional govern	e by the proper sh amental regulation	ipping name	and are classified, packa	aged,
	Ge	nerator's/Offeror's Printed/Type	od Name		Signature		donar govon	TA CIA		Month Day	Van
¥		Springer	- on the		١	Spritz	~	\ \\ \.		Month Day	Year
ب	15.	International Shir ments						1110		1171	6
F	ĺ	₩ nsporter Signature (for exports	Import to U.S.	L_J E	xport from U.S.	Port of ent					
_	$\overline{}$	Transporter Acknowledgment of				Date leavir	ng U.S.:				
E		nsporter 1 Printed/Typed Name			Signature	$\overline{}$					
ğ		· preme	.)-) Oiginature	V V				Month Day)Year
TRANSPORTER	Trai	sporter 2 Printed/Typed Name			Signature	(7)				11 4	10
8		ioportor 2 / miles types manie	0		oignature 					Month Day	Year
\rightarrow	17	Discrepancy									
T		Discrepancy Indication Space									
		2971 galler	LZIQuantity	☐ Type	1.4	Residue anifest Reference Nu	ımh as	Partial Reje	ction	Full Rejection	on
<u>-</u> أ	17b	Alternate Facility (or Generator	1)	107 1	IVI	ameat releichted Nt	IIII)GI.	U.S. EPA ID N	umber		
=											
[]	Faci	lity's Phone:						Ī			
		Signature of Alternate Facility (or Generator)					1		14	
3		,	0		1					Month Day	Year
5	, <u>(</u>					TRANSPORTER A	PL 36	64577 8	1 3/4	8.500 St. 40.002 A 40.000 St.	Adaption
100	a						開閉平門	4.494	TAR		
1	8. [esignated Facility Owner or Op	perator: Certification of receipt of m	naterials covered by the man	ifest except as no	ted in Item 17a				The same of the sa	17.50万年日間
F	ript	ed/Typed Name	1/ /- 1		Signature	5-				Month Day	Year
1	1	ICMIEL W	hitmic		4	1				11 41	16

SCALE TICKET

11/04/2016	04:59PM
Progressive	3610
RcPD I.D. number	S 2445 226
Gross	56780 lb
Tare(‡)	32000 lb
* Preset weight	AJMAR II
hat the	24780 lb

Scale Company: VS						
Weighed By:						
Carrier: 50.45						
Customer: BLE (Grandle)						
PO/BOL/Manifest_BLE /1416B						
Tractor Number: 2445						
Trailer Number: 226						
Driver Signature.						
WHITE - Driver YELLOW - Driver CARD - Scale						



Underground Storage Tank Management Division Field Data Information Sheet – Monitoring Well Gauging

a lente. Upv	Site Information											
				Site Name: Former Bycler Terminal Field Personnel: A. Looper, E. Mendenhall								
County: Greenville Project Manager: A. Looper					Field Personnel: A. Looper E. Mendenhall							
Well Gauging Information												
Well ID:	Total Well Depth (ft.)	Screened Interval (ft.)	Depth to Free Product (ft.)	Depth to Ground water (ft.)	Free Product Thickness (ft.)	Confirmed with Bailer?	Photos Taken ?	Well Pad OK?	Bolts in Well Cover?	Water in Well Vault?		
Mw-4	30	20-30		24.55		No	No	Yes	No	Yes		
MW-6	30	20-30	25.49	Z6.80	1.31	No	No	Yes	Yes	No		
MW-15	33	23-33	24.05	24.45	0.40	No	No	Yes	No	Yes		
MW-17	35	25-35	24.78	26.12	1.34	No	No	Yes	Yes	No		
									US			
								(00	36 1			
								\@	The state of the s	b'		
Notes:												
									0 -			
Signature:Signature:												

-UST Field Data Information Sheet - Monitoring Well Gauging

- -Purpose of the form is to record information gathered during a monitoring well gauging event
- -DHEC UST Project Managers and Field Staff
- -Item-by-item instructions for completing the form:

Fill in all Site Information boxes

Record Well Gauging Information for all necessary wells

Record any applicable notes

Sign the form

-Form is scanned and saved electronically; Record Group Number 169, Retention Schedule 10304



LLOYD DAUTEN 4925 COACH HILL DR GREENVILLE SC 29615 'APR 0 2 2018



Re: Aggressive Fluid and Vapor Recovery Directive

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929; CA #56674 Release reported February 25, 1997 AFVR report received February 3, 2017

Greenville County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) recognizes your commitment to continue work at this site using Bunnell-Lammons Engineering, Inc. as your contractor.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. **Please be aware that the AFVR Procedures have been updated.** One 96-hour event utilizing monitoring well MW-6, MW-15, and MW-17 should be performed. The stinger shall be lowered at six inch intervals starting at the water table interface to a target depth of 24 feet in the wells. Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the DHEC QAPP Revision 3.1 for the Underground Storage Tank Division is available at

http://www.scdhec.gov/environment/PermitCentral/ApplicationForms/#UST.

As soon as the beginning date of the event has been scheduled, please contact Adam Looper at Looperam@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval is obtained from the UST Management Division. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be preapproved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

On all correspondence concerning this site, please reference UST Permit #11929. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely

Adam Looper, Hydrogeologist

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 (w/enc.) Technical file (w/enc.)

Approved Cost Agreement

56674

Facility: 11929 FORMER RYDER TERMINAL

LOOPERAM PO Number:

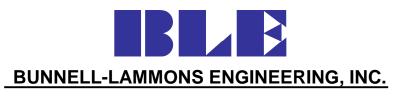
Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
19 RPT/PROJECT MNGT & COORDINATIO				
	PRT REPORT PREPARATION	0.1200	\$22,742.250	2,729.07
23 EFR				
	A4 96 HOUR EVENT	1.0000	\$12,567.500	12,567,50
	C4 OFF GAS TREATMENT 96 HOUR	1.0000	\$780.000	780.00
	D SITE RECONNAISSANCE	1.0000	\$203.250	203.25
	F1 EFFLUENT DISPOSAL	20,000.0000	\$0.440	8.800.00
	G AFVR EQUIPMENT MOB	1.0000	\$391.500	391.50

Total Amount

25,471.32

Document Receipt Information

Hard Copy	СФ СФ	Email
Date Received	04/04	12017
Permit Number	11929	<u> </u>
Project Manager	dam Love	ver
Name of Contractor	BIET	C
UST Certification Numb	per DeDort O	F AFVA EVENT
Docket Number	38	Tech
		•
Scanned		



GEOTECHNICAL, ENVIRONMENTAL AND CONSTRUCTION MATERIALS CONSULTANTS

REPORT OF AGGRESSIVE FLUID VAPOR RECOVERY EVENT

FORMER RYDER TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #56674

Prepared For

Ms. Ingrid Auten C/O Ms. Annie Mumbauer BB&T Wealth Management P.O. Box 408 Greenville, South Carolina 29602

Prepared By

Bunnell-Lammons Engineering, Inc. 6004 Ponders Court Greenville, South Carolina 29615 SCDHEC Certified Contractor No. UCC-0010

May 29, 2018

BLE Project Number J18-1010-23



May 29, 2018

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Management Division 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper

Hydrogeologist

Subject: Report of Aggressive Fluid Vapor Recovery Event

Former Ryder Terminal 10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929; CA #56674 BLE Project No. J18-1010-23

Dear Mr. Looper:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed an Aggressive Fluid Vapor Recovery (AFVR) Event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated April 2, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL-LAMMONS ENGINEERIN

Trevor J. Benton, P.G. Senior Hydrogeologist

Registered, South Carolina No. 2395

Thomas L. Lammons, P.G Principal Hydrogeologist

Registered, South Carolina No. 893

PHONE (864) 288-1265

(864) 288-4430

cc: Ms. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 29602



SITE INFORMATION

Facility Identification:

Facility Name Former Ryder Terminal

UST Permit Number 11929

Facility Address 10 Woods Lake Drive

Greenville, South Carolina 29607

Release Information:

Release #	Date Reported	Quantity	Cause	Status
1	January 5, 1990	Unknown	Unknown	No Further Action – January 5, 1990
2	February 25, 1997	Unknown	Unknown	Open

Responsible Party:

Name Ms. Ingrid Auten c/o BB&T Wealth Management

Address PO Box 408

Greenville, South Carolina 29602

Property Owner Information:

Name Wheeler Properties, LLC

Address 10 Woods Lake Drive

Greenville, South Carolina 29607

Current Site Use: Vacant

UST Site Rehabilitation Contractor:

Name Bunnell-Lammons Engineering, Inc.

Address 6004 Ponders Court

Greenville, South Carolina 29615

Phone (864) 288-1265

Certification Number UCC-0010



AFVR Contractor Information:

AFVR Contractor Landprobe Drilling Services, LLC

Address PO Box 25608

Greenville, South Carolina 29616

UST System Summary:

UST #	Size (Gallons)	Product	Currently in use (Yes or No)	If not in use, Date Removed
1	20,000	Diesel	No	Removed – May 1, 1989
2	5,000	Diesel	No	Removed – May 1, 1989
3	6,000	Gasoline	No	Removed – May 1, 1989
4	5,000	Gasoline	No	Removed – May 1, 1989
5	550	Unknown	No	Removed – May 1, 1989

AGGRESSIVE FLUID VAPOR RECOVERY EVENT

On May 1, 2018, BLE personnel mobilized to the facility to evaluate site access and to determine staging locations for the AFVR equipment. From May 7-11, 2018, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform a 96-hour AFVR event. Personnel from BLE's Greenville, South Carolina office were on-site for observation and monitoring during the event. A site location map and an AFVR well location plan are provided as Figure 1 and 2, respectively. A summary of the AFVR event is provided below.

AFVR Event – May 7-11, 2018

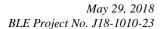
AFVR Well(s) MW-06, MW-15, and MW-17

Gauged Well(s) MW-04, and MW-18

Pre-AFVR Free-Product 1.10-feet in MW-06, 5.02-feet in MW-15, 0.86-Thickness

feet in MW-17, 0.01-feet in MW-04, and 0.06-

feet in MW-18





Post-AFVR Free-Product	0.57-feet in MW-06, 0.20-feet in MW-15, 0.59-
Thickness	feet in MW-17, <0.01-feet in MW-04, and 0.10-

feet in MW-18

Length of AFVR Event 96 hours

Total Volume of Liquid 2,722 gallons Removed

Volume of Free-Product in 5.0 gallons Holding Tank

Total Pounds of Free-Product 15.4 pounds

Recovered (Vapor)

Total Gallons of Free-Product 2.1 gallons Recovered (Vapor)

General Weather Conditions 5/7/18 – Storms, Average 66°F

5/8/18 – Rain, storms, Average 65°F

5/9/18 – Clear, Average 69°F

5/10/18 – Rain, storms, Average 71°F

5/11/18 – Clear, Average 73°F

Pertinent data collected throughout the AFVR event is included in Table 1 and shown on Figure 2. Waste transportation and disposal records for this AFVR event are provided in Appendix A.

CONCLUSIONS

One 96-hour AFVR event was conducted on monitoring wells on MW-06, MW-15, and MW-17 at the subject site. At the completion of the AFVR event, a total volume of 2,722-gallons of petroleum-impacted groundwater was determined to have been recovered from the site. Approximately 5.0 gallons of free-phase petroleum product was measured in the holding tanks and 2.1 gallons of gasoline were calculated to have been recovered via vapor-phase emissions. Additional petroleum product emulsified in the groundwater and/or volatilized during the AFVR event, could not be quantified.

RECOMMENDATIONS

As free-product continues to persist in monitoring wells MW-06, MW-15, MW-17, and MW-18, we

recommend performing three additional 96-hour AFVR events to: 1) remove free-phase and residual

free-phase petroleum product from the area around the extraction points, 2) remove petroleum

hydrocarbon vapors from the unsaturated zone, and 3) remove petroleum impacted groundwater

from the subsurface.

Approximately thirty days after completion of the AFVR events, we recommend a comprehensive

groundwater sampling event be performed to evaluate the effectiveness of the events, obtain current

site-wide CoC concentration data, and to monitor CoC concentration trends.

QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally

employed in hydrogeological assessments of this type. Our evaluation of site conditions has been

based on our understanding of the site and project information and the data obtained in our

exploration.

This report has been prepared on behalf of and exclusively for the use of Ms. Ingrid Auten. This

report and the findings contained herein shall not, in whole or in part, be used or relied upon by any

other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's

work shall be at third parties risk and without liability to BLE.

4

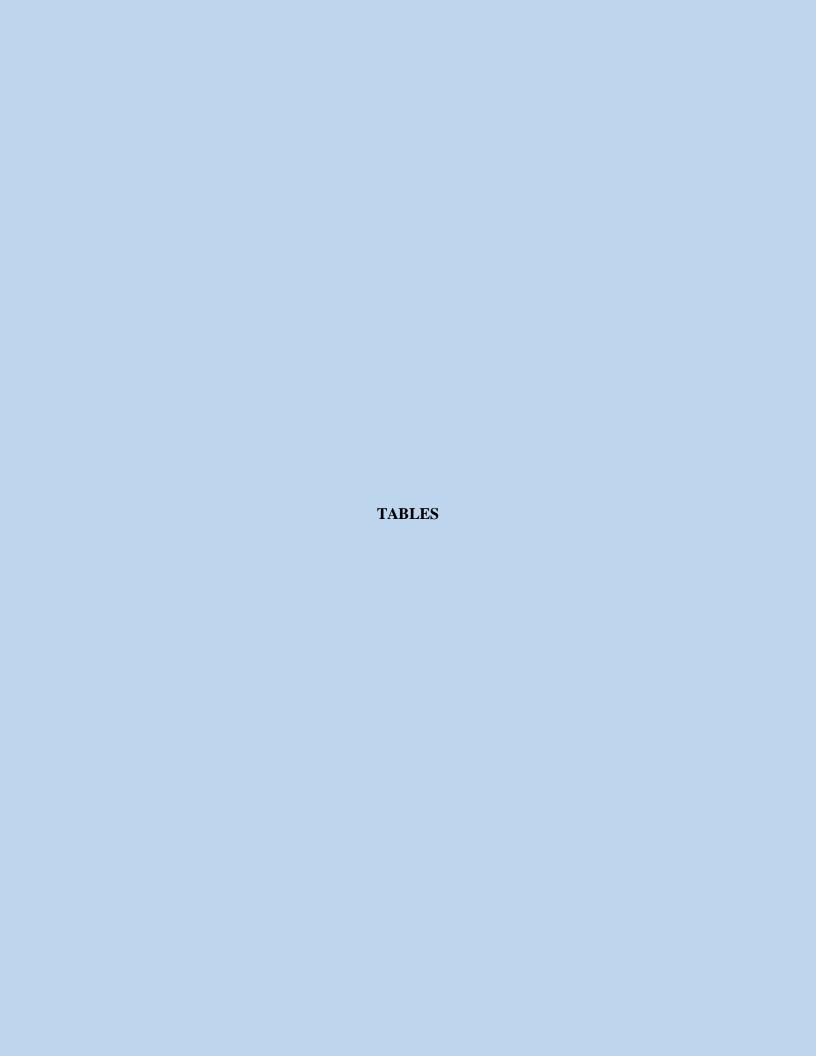


TABLE 1

AFVR Event Data May 7-11, 2018 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #56674 BLE Project No. J18-1010-23

		Ī					Monitoring We	ll Gauging Data					1	AFVR Field	l Measurements			Air Emissions	
			1	AFVR Well Vacuum (in. of Hg)	n	AFV	R Well Stinger De (feet btoc)	0 0		/ell Vacuum of Hg)	Adjacent Well Groundwa		Vacuum at Pump	Temperature	Relative Humidity	Velocity	Airflow	Influent	Effluent
Date	Time (hh:mm)	Elapsed Time (hours)	10250-MW06	10250-MW15	10250-MW17	10250-MW06	10250-MW15	10250-MW17	10250-MW04	10250-MW18	10250-MW04	10250-MW18	(in. Hg)	(°F)	(%)	(ft/min)	(CFM)	(ppm)	(ppm)
5/7/2018	09:00	0.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.70 / 23.71	24.09 / 24.15	25.0	94	48.7	389	33.9	451	0.0
5/7/2018	09:30	0.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.70 / 23.71	24.16 / 24.25	25.0	97	49.3	409	35.7	418	0.8
5/7/2018	10:00	1.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.72	24.32 / 24.35	25.0	98	50.1	429	37.4	447	1.4
5/7/2018 5/7/2018	10:30 11:00	1.5 2.0	25.0 25.0	25.0 25.0	25.0 25.0	24.0 24.0	24.0 24.0	24.0 24.0	1.7	1.8	23.73	24.33 / 24.45 24.37 / 24.55	25.0 25.0	101	52.6 51.7	447 429	39.0 37.4	437 437	1.8 2.5
5/7/2018	11:30	2.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.73 / 23.74	24.39 / 24.65	25.0	110	52.0	409	35.7	422	2.9
5/7/2018	12:00	3.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.74 / 23.75	24.40 / 24.85	25.0	111	52.2	409	35.7	442	3.2
5/7/2018	12:30	3.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.75 / 23.76	24.42 / 24.84	25.0	112	54.8	437	38.1	437	3.9
5/7/2018	13:00	4.0	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.76 / 23.77	24.44 / 24.85	25.0	113	55.6	441	38.5	437	3.6
5/7/2018	13:30	4.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.78 / 23.79	24.46 / 24.85	25.0	112	56.3	428	37.4	468	3.8
5/7/2018	14:00	5.0 5.5	25.0	25.0	25.0	24.0	24.0	24.0	1.7	1.8	23.78 / 23.79	24.48 / 24.85	25.0	113	55.2	479 439	41.8 38.3	511	4.0 3.7
5/7/2018 5/7/2018	14:30 15:00	6.0	25.0 25.0	25.0 25.0	25.0 25.0	24.0 24.0	24.0 24.0	24.0 24.0	1.8	1.8 1.8	23.80 / 23.81 23.81 / 23.82	24.49 / 24.86 24.51 / 24.86	25.0 25.0	115 114	56.4 52.3	429	37.4	521 521	3.4
5/7/2018	15:30	6.5	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.81 / 23.82	24.54 / 24.86	25.0	115	54.8	501	43.7	551	3.5
5/7/2018	16:00	7.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.82 / 23.83	24.55 / 24.87	25.0	111	55.7	474	41.4	564	3.4
5/7/2018	16:30	7.5	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.82 / 23.84	24.56 / 24.87	25.0	119	57.1	493	43.0	577	3.7
5/7/2018	17:00	8.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.83 / 23.84	24.57 / 24.87	25.0	124	57.2	502	43.8	577	4.0
5/7/2018	18:00	9.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.84 / 23.85	24.57 / 24.87	25.0	119	56.4	512	44.7	580	3.7
5/7/2018	19:00	10.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	2.1	23.85 / 23.86	24.59 / 24.88	25.0	121	58.2	498	43.5	529	4.1
5/7/2018 5/7/2018	20:00 21:00	11.0 12.0	25.0 25.0	25.0 25.0	25.0 25.0	24.0 24.0	24.0 24.0	24.0 24.0	1.8	1.8 1.8	23.85 / 23.86 23.86 / 23.87	24.60 / 24.88 24.61 / 24.88	25.0 25.0	119 121	61.4 59.7	544 513	47.5 44.8	554 554	4.4
5/7/2018	22:00	13.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.87 / 23.88	24.63 / 24.89	25.0	120	58.4	487	42.5	562	4.8
5/7/2018	23:00	14.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.87 / 23.89	24.65 / 24.89	25.0	111	62.7	428	37.4	560	4.8
5/8/2018	00:00	15.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	23.90 / 23.91	24.67 / 24.90	25.0	115	61.3	409	35.7	515	4.9
5/8/2018	08:00	23.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.11 / 24.12	24.80 / 25.00	25.0	97	59.6	441	38.5	515	6.3
5/8/2018	09:00	24.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.13	24.81 / 25.01	25.0	94	60.1	460	40.1	539	6.7
5/8/2018	10:00 12:00	25.0 27.0	25.0 25.0	25.0 25.0	25.0 25.0	24.0 24.0	24.0 24.0	24.0 24.0	1.8	1.8	24.12 / 24.13 24.12 / 24.13	24.81 / 25.01 24.81 / 25.01	25.0 25.0	95 100	61.0 62.3	487 467	42.5 40.8	510 524	7.8 8.7
5/8/2018 5/8/2018	14:00	29.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.13	24.81 / 25.01	25.0	100	63.8	523	45.6	524	9.2
5/8/2018	16:00	31.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.12 / 24.14	24.81 / 25.01	25.0	110	64.7	502	43.8	564	10.3
5/8/2018	18:00	33.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	108	62.8	498	43.5	514	9.8
5/8/2018	20:00	35.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	101	63.1	477	41.6	566	10.2
5/8/2018	22:00	37.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	104	62.7	484	42.2	566	10.5
5/9/2018	00:00	39.0	25.0	25.0	25.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	104	65.6	467	40.8	572	10.6
5/9/2018 5/9/2018	08:00 10:00	47.0 49.0	25.0 20.0	25.0 20.0	25.0 20.0	24.0 24.0	24.0 24.0	24.0 24.0	1.8	1.8 1.8	24.13/ 24.14 24.13/ 24.14	24.81 / 25.01 24.81 / 25.01	25.0 25.0	97 100	61.7 62.4	429 467	37.4 40.8	502 488	11.7 12.8
5/9/2018	12:00	51.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	108	59.3	429	37.4	488	13.9
5/9/2018	14:00	53.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	110	60.4	483	42.1	502	14.8
5/9/2018	16:00	55.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	112	62.3	507	44.2	495	15.2
5/9/2018	18:00	57.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	108	63.7	421	36.7	478	16.1
5/9/2018	20:00	59.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	111	62.4	483	42.1	478	16.0
5/9/2018	22:00	61.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.13/ 24.14	24.81 / 25.01	25.0	105	62.1	461	40.2	488	16.7
5/10/2018	00:00 08:00	63.0	20.0	20.0	20.0	24.0 24.0	24.0 24.0	24.0	1.8	1.8	24.13/24.14	24.81 / 25.01	25.0	104 90	59.5 51.6	429 409	37.4	456 487	16.7
5/10/2018 5/10/2018	10:00	71.0 73.0	20.0	20.0	20.0	24.0	24.0	24.0 24.0	1.8	1.8	24.14/ 24.15 24.14/ 24.15	24.81 / 25.01 24.81 / 25.01	25.0 25.0	90	51.6	409	35.7 37.4	487	17.5 18.1
5/10/2018	12:00	75.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.16 / 24.17	24.80 / 25.01	25.0	109	57.1	467	40.8	482	18.5
5/10/2018	14:00	77.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.18 / 24.19	24.80 / 25.01	25.0	112	60.0	489	42.7	495	18.9
5/10/2018	16:00	79.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.20 / 24.21	24.80 / 25.01	25.0	116	59.7	434	37.9	502	19.1
5/10/2018	18:00	81.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.22 / 24.23	24.80 / 25.01	25.0	120	58.4	473	41.3	502	19.4
5/10/2018	20:00	83.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.22 / 24.23	24.80 / 25.01	25.0	116	56.3	302	26.4	484	19.7
5/10/2018	22:00	85.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.26	24.80 / 25.01	25.0	114	57.1	431	37.6	502	20.0
5/11/2018 5/11/2018	00:00 08:00	87.0 95.0	20.0	20.0	20.0	24.0 24.0	24.0 24.0	24.0 24.0	1.8	1.8 1.8	24.27 24.28	24.80 / 25.00 24.40 / 24.50	25.0 25.0	112 110	59.2 57.3	427 467	37.3 40.8	482 482	20.3
5/11/2018	08:00	96.0	20.0	20.0	20.0	24.0	24.0	24.0	1.8	1.8	24.28	24.40 / 24.50	25.0	107	59.4	429	37.4	477	22.8
2. 2. 2010		, 510	20.0	20.0	20.0	∠-r.∪	27.0	27.0	1.0	1.0	27.27	27.70 / 27.30	_5.0	-07	-211		-//-		

Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)
10250-MW06	24.71	25.81	1.10	25.61	26.18	0.57	0.37
10250-MW15	23.10	28.12	5.02	23.41	23.61	0.20	-4.51
10250-MW17	24.93	25.79	0.86	26.12	26.71	0.59	0.92
10250-MW04	23.70	23.71	0.01	NFPP	24.29	NFPP	0.58
10250-MW18	24.09	24.15	0.06	24.40	24.50	0.10	0.35

Recovery Information	
Total Volume of Water (gallons)	2,722
Total Volume of FPP (gallons)	5.0
Total Calculated Carbon Recovered as Emissions (pounds)	13.3
Total Calculated Gasoline Recovered as Emissions (pounds)	15.4
Total Calculated Gasoline Recovered as Emissions (gallons)	2.1

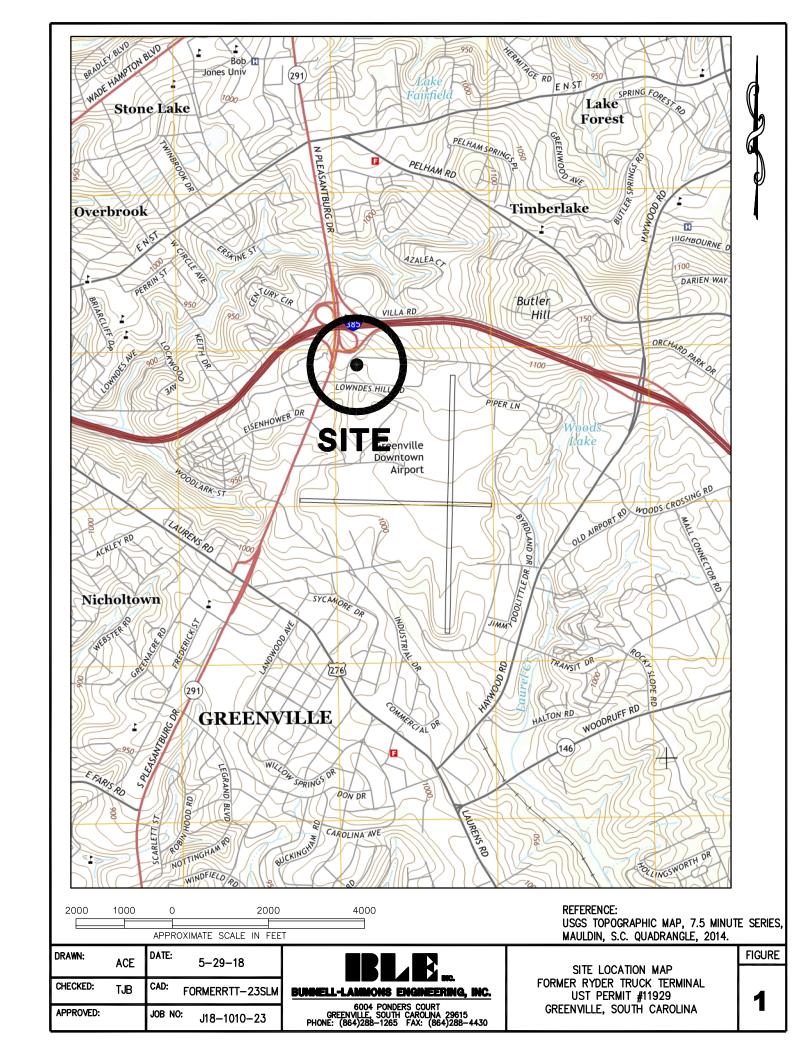
Notes: 4-inch diameter stack size btoc - below top of casing

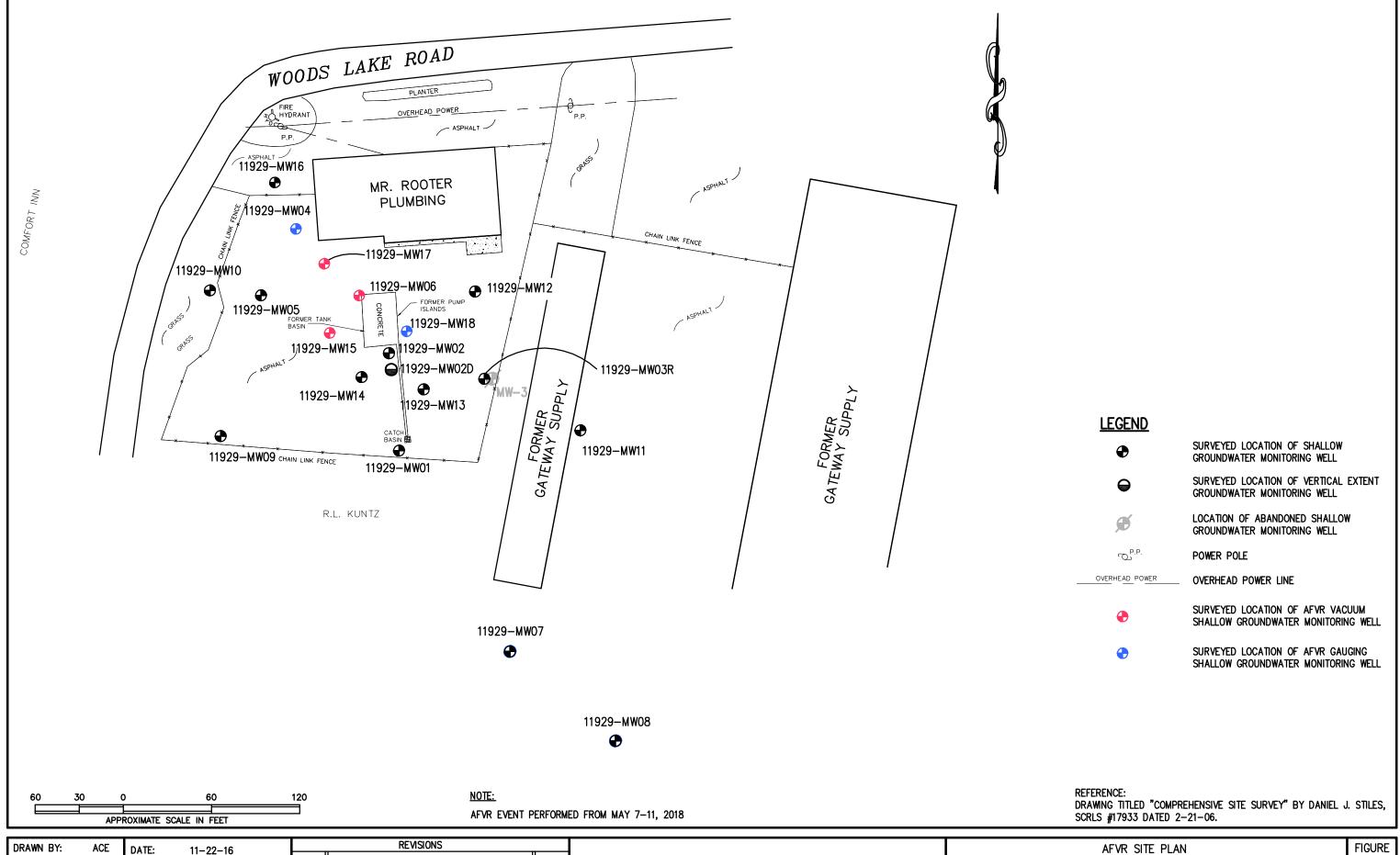
btoc - below top of casing
Vapor concentrations measured with portable MiniRAE[®] 3000 PID.
PID - Photo-Ionization Detector
Temperature and Relative Humidity measured with an Extech 45160
Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPP - No Free-Phase Product

°F - Fahrenheit
CFM - Cubic feet per minute
FPP - Free-Phase Product
/ ##.## - Depth to FPP, Depth to Groundwater

##.## / ##.## - Depth to FPP, Depth to Groundwater - / ##.## - No FPP / Depth to Groundwater







DRAWN BY:	ACE	DATE:	11-22-16		REVISIONS	
		DATE:	11-22-10	No.	DESCRIPTION	BY
CHECKED BY:	DRM	FILE:	FORMERRTT-22AFVR			
APPROVED BY:		JOB NO:	J16-1010-22			



BUNNELL-LAMMONS ENGINEERING, INC.
6004 PONDERS COURT
CREENVILLE, SOUTH CAROLINA 29615
PHONE: (864)288-1265 FAX: (864)288-4430

FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE

2



APPENDIX A WASTE TRANSPORTATION AND DISPOSAL RECORDS

1	NON-HAZARDOUS VASTE MANIFEST 1. Generator ID Number	2. Page 1 of 3 Emergency Response Phone 4. Waste Tracking Number 5 11 18 Bi E
	5. Generator's Name and Mailing Address PUNNULL Lammons Engineering Generator's Phone: Green Lucy Schools 12 Company Name 6. Transport 1 Company Name	Generator's Site Address (if different than mailing address) FMY Ryder Terminal UST# 1929 10 Woods Lake Rd Every 16 St. 29607 U.S. EPA ID Number
	6. Transport 1 Company Name Millips Recoveries, Inc.	U.S. EPA ID Number SCR00078 4U52
	7. Transporter 2 Company Varie	U.S. EPA ID Number
	8. Designated Facility Name and Site Address	U.S. EPA ID Number
	8. Designated Facility Name and Site Address US RECOVERY SERVICES 305. J. Meyin St. Facility's Phone: Maulain, Sc. 791642	
	Facility's Phone: Mauldin, Sc 791242	10. Containers 11 Total 12 Unit
	Waste Shipping Name and Description 1.	No. Type Quantity WI/Vol.
GENERATOR	Well Worter #2030	E MI TT
GE	#21147	
	3.	
	4.	
	13. Special Handling Instructions and Additional Information	
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this commarked and labeled/placarded, and are in all respects in proper condition for transport according	onsignment are fully and accurately described above by the proper shipping name, and are classified, packaged, fing to applicable international and national governmental regulations.
Ų.	Generally's Offeror's Printed/Typed Name	Signature Mopth Day Year
INT'L	15, International Stripments Import to U.S.	Export from U.S. Port of entry/exit:
		Date leaving U.S
TRANSPORTER	Transporter 1 Printed/Typed Name CN 1 2 S C A 1 2	Signature Month Day, Yaar 5 11 18
TRAN	Transporter 2 Printed-Typed Name	Signature Month Day Year
1	17. Discrepancy 17a. Discrepancy Indication Space	Residue Partial Rejection Full Rejection
	2,722 GAL RASES ON WETCHT	
LITY		Manifest Reference Number: U.S. EPA ID Number
FACI	Facility's Prone:	
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or Generator)	Month Day Year
- DESIG		
	18. Designated Facility Owner or Operator. Conflication of receipt of materials covered by the man	
4	Printed Types Name F Change //	Signature Chappell 5 11 8
169	9-BLS-C 5 11979 (Rev. 9/09)	DESIGNATED FACILITY TO GENERATOR

SCALE TICKET

05/11/2018	02:33PM
Progressive	9511
RcPD I.D. number	3
Gross	55060 lb
Tare(#)	32360 lb
* Preset weisht	1122 211 42
let	22700 lb

Scale Company: <u>US</u>
Weighed By:
Carrier: PZI
Customer: BLE
PO/BOL/Manifest_5418B1e
Tractor Number: 121
Trailer Number: 577
Driver Signature:

WHITE - Driver YELLOW - Driver CARD - Scale



JUN 2 8 2018

UST OFFETT OCKETT

INGRID AUTEN
4925 COACH HILL DR
GREENVILLE SC 29615

Re:

Site Specific Work Plan (SSWP) Directive for Groundwater Sampling

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929

Release reported February 25, 1997 AFVR Report received June 4, 2018

Greenville County

Dear Ms. Auten:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-

nttp://www.scdnec.gov/Environment/LW/UST/ReleaseAssessmentCleanup/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells, water supply wells, and surface waters within 1,000 foot radius of the site and analyzed for BTEX, Naphth, MtBE, Oxys, DCA, and EDB.All wells should be purged prior to sample collection.

Your contractor must complete the SSWP and Cost Proposal and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. Please note that approval from DHEC must be issued before work begins.

On all correspondence regarding this site, please reference UST Permit #11929. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely

Adam Looper

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division

Bureau of Land and Waste Management

Cc: Bunnell-Lammons Engineering, Inc., 6004 Ponders Ct., Greenville, SC 29615 Technical Files

Document Receipt Information

Hard Copy	СФ СФ	Email
,		
Date Received	8.10.	2016
Permit Number	11929	
Project Manager	Adam U	Der
Name of Contractor	Ble Inc	
UST Certification Numb	per_SSWP-	GWS Event
Docket Number	40 Tech]
	,	•
Scanned		



August 6, 2018

South Carolina Department of Health and Environmental Control Underground Storage Tank Management Division 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper, Hydrogeologist

Subject: Site Specific Work Plan – Groundwater Sampling Event

Former Ryder Terminal 10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929

BLE Project No. J18-1010-24

Dear Mr. Looper:

On behalf of The Estate of Lloyd Auten, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated June 28, 2018, for the implementation of a groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

BUNNELL-LAMMONS ENGINEERING INC

Trevor J. Benton, P.G.

Senior Hydrogeologist

Registered, South Carolina #2395

Thomas L. Lammons, P.G.

Principal

Registered, South Carolina #893

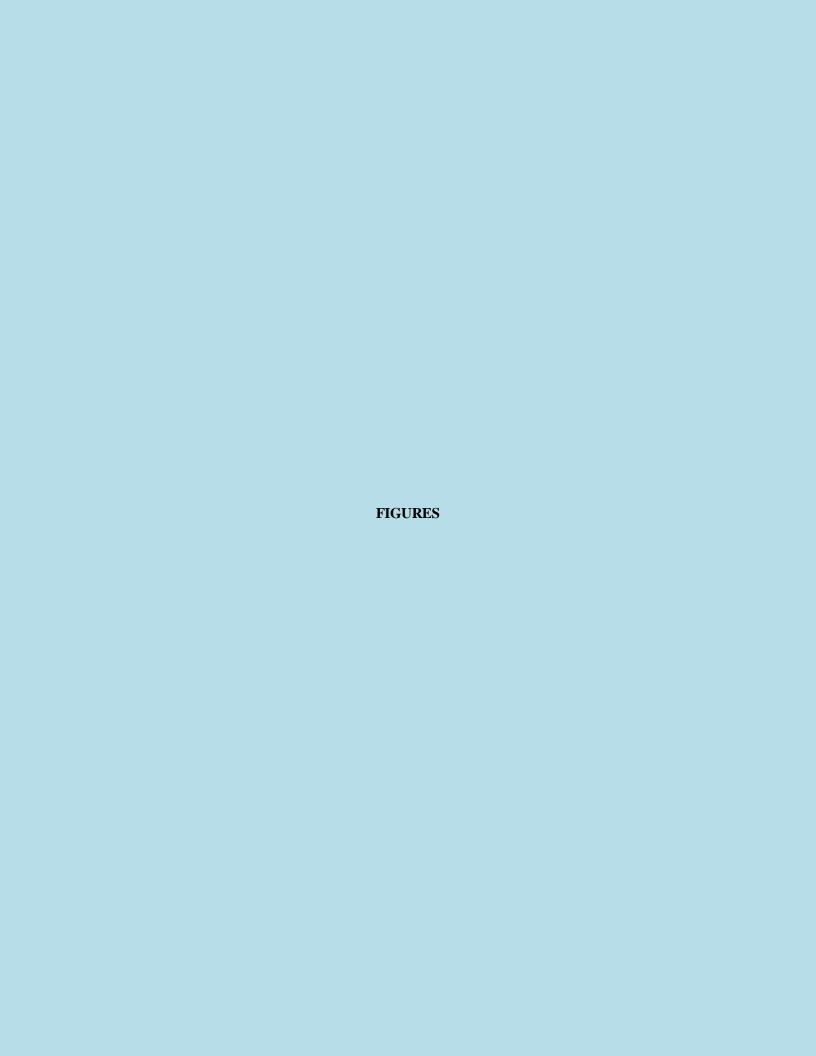
cc: Estate of Lloyd Auten, 4925 Coach Hill Drive, Greenville, South Carolina 29615

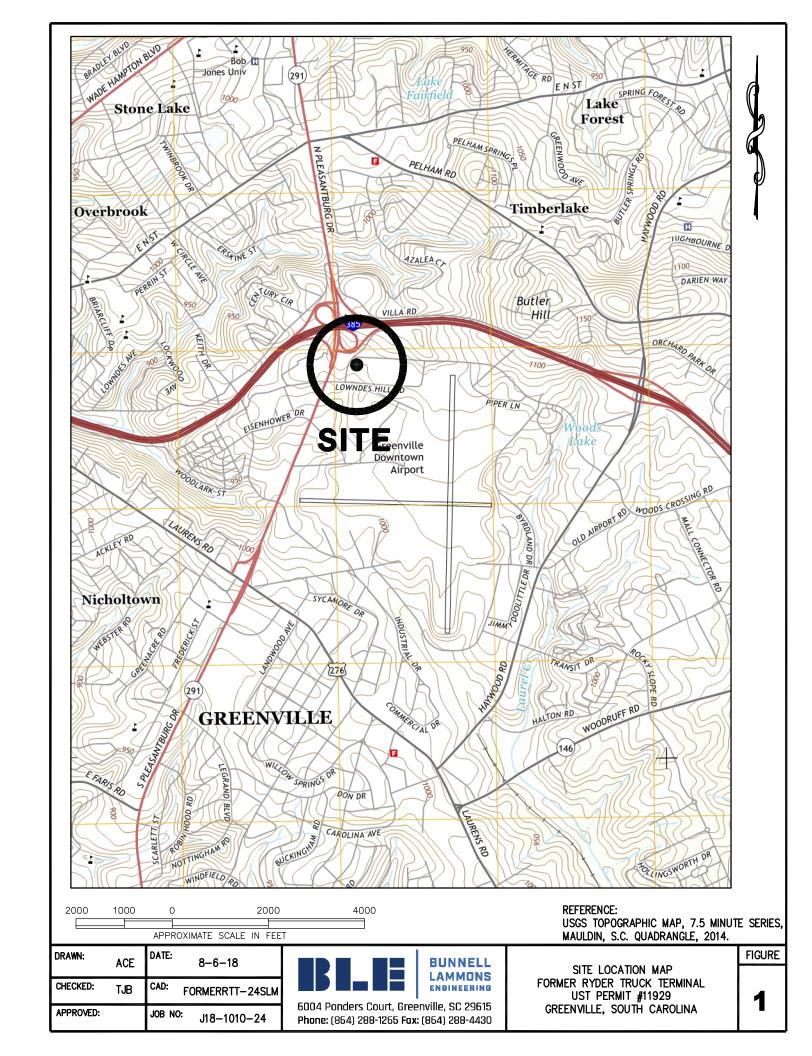


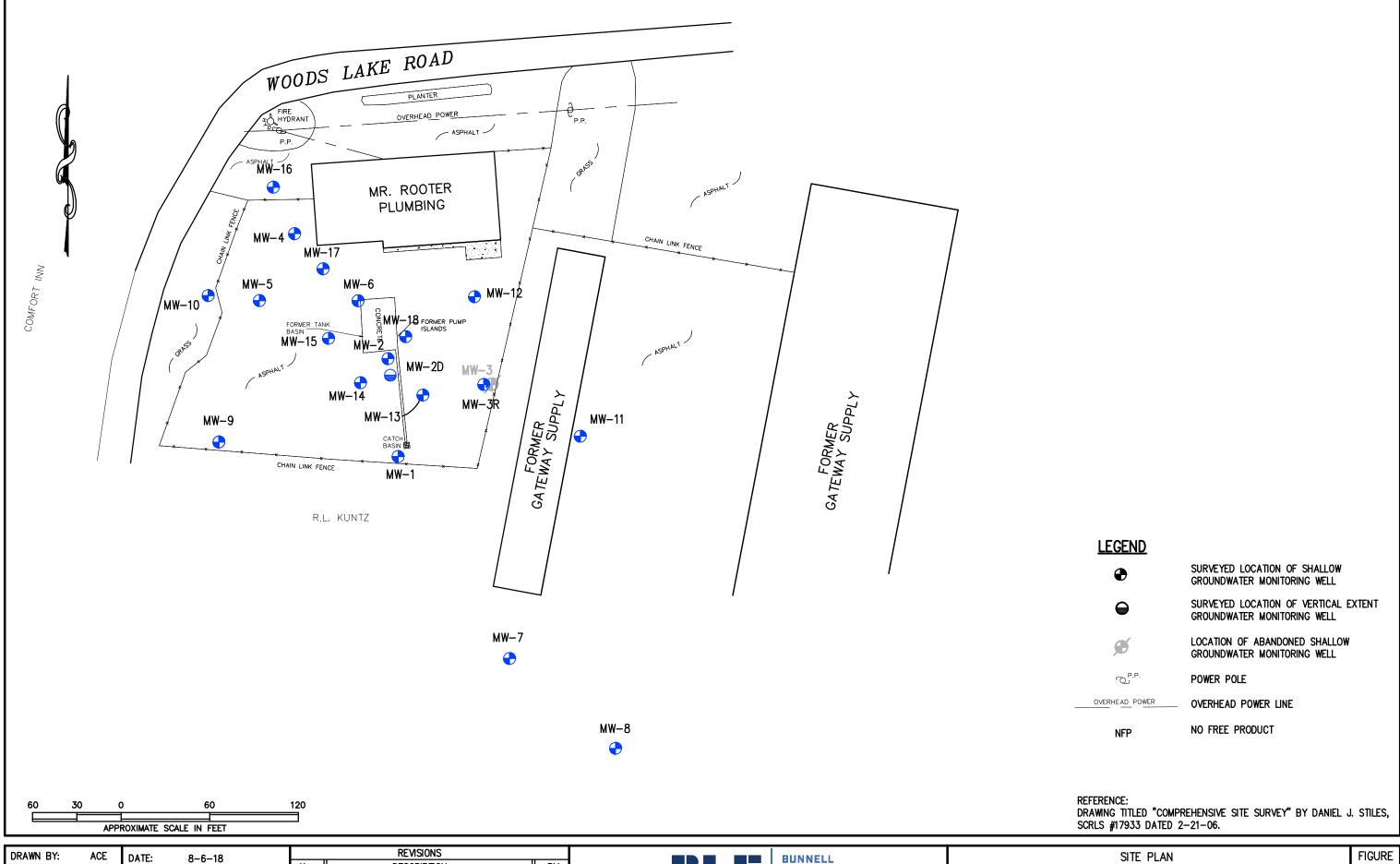
Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Mr. Adam Looper	(SCDHEC F	Project Manager)
From: Mr. Trevor Benton, P.G.	,	⊃roject Manager)
Contractor: Bunnell-Lammons Engineering, Inc.	UST Contractor Certification Number: UCC-0010	
Facility Name: Former Ryder Truck Terminal	UST Permit #: 11929	
Facility Address: 10 Woods Lake Drive, Greenville, South C	Carolina 29607	
Responsible Party: Estate of Lloyd Auten	Phone:	
RP Address: 4925 Coach Hill Drive, Greenville, South Card	olina	
Property Owner (if different): Wheeler Properties, LLC	illa Carath Caratha 20007	
Property Owner Address: 10 Woods Lake Road, Greenv Current Use of Property: Battery & Electric Company	ille, South Carolina 29607	
Current Ose of Property: Dattery & Electric Company		
Scope of Work (Please check all that apply)		
☐ IGWA ☐ Tier II	☑ Groundwater Sampling	☐ GAC
☐ Tier I ☐ Monitoring Well Installat	tion Other	
Analyses (Please check all that apply)		
Groundwater/Surface Water:		
☑ BTEXNMDCA (8260B) ☐ Lead		ethane
_ , , ,		hanol
✓ EDB (8011)✓ PAH (8270D)✓ pH	<u>—</u>	ssolved Iron
☐ PAH (8270D) ☐ pH Drinking Water Supply Wells:	☐ Other	
	(200.8 245.1 or 245.2)	
	Metals (200.8)	
Soil:	(====,	
☐ BTEXNM ☐ Lead ☐ RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
☐ PAH ☐ Oil & Grease (9	071) TPH-GRO (5030B/8015B)	□ тос
Air:		
BTEXN		
Sample Collection (Estimate the number of sample	les of each matrix that are expected to be collected.))
<u>0</u> Soil <u>0</u> Wate	r Supply Wells <u>0</u> Air <u>1</u>	Field Blank
19 Monitoring Wells 0 Surf	face Water <u>1</u> Duplicate <u>1</u>	Trip Blank
Field Screening Methodology	h a status and that the transport and to a status and the	-Ubl
	h point, and include their proposed locations on the	
# of deep points proposed: NA	Estimated Footage: NA Estimated Footage: NA	_ feet per point feet per point
Field Screening Methodology:		_ leet per politi
ricid derecting wethodology.		
Permanent Monitoring Wells		
	h well, and include their proposed locations on the a	
# of shallow wells: NA		feet per point
# of deep wells: NA	Estimated Footage: NA	feet per point
# of recovery wells: NA	Estimated Footage: NA	feet per point
Comments, if warranted:		
		_
SCDHEC, UST Management Division, 2600 Bull Street, Co	olumbia, SC 29201, PHONE (803)898-7957 FAX (803) 896-6245	www.scdhec.gov

UST Permit #: 11929	Facility Name:	Former Ryder Terminal	
Implementation Schedule Field Work Start-Up: 14 Report Submittal: 75		s from approval) Field Work Completion: 45 # of Copies Provided to Property Owne	rs: <u>0</u>
Aquifer Characterization Pump Test: Slug Tes Not Applicable	t: ☐ (Check one and prov	ride explanation below for choice)	
Investigation Derived Was Soil: o Drilling Fluids: 0		Purge Water: 200 Free-Phase Product: 0	Gallons Gallons
Additional Details For This For example, list wells to be event, etc.	s Scope of Work sampled, wells to be abar 2D, MW-3R, and MW-4 through M	ndoned/repaired, well pads/bolts/caps to rep W-18 will be purged and sampled during this scope of work reality Assurance Plan (ACQAP).	
Name of Laboratory: _SCDHEC Certification Name of Laboratory Description Name of Laboratory Description Name of Well Driller: SCLLR Certification Name Name of Well Driller: SCLLR Certification Name Name Name Name Name Name Name Name	d in ACQAP? (Yes/No) Number: Director: d in ACQAP? (Yes/No)	If no, indicate laboratory information be	
2. Prepare a site base must include the fol North Arrow Location of property Location of building Previous soil sampl Previous monitoring Proposed soil boring	map. This map must be a lowing: Proposed Legend well locations well locations glocations	GGS topographic map showing the site location accurately scaled, but does not need to be so a monitoring well locations with facility name and address, UST permit not highways (indicate names and numbers) of all present and former ASTs and USTs of all potential receptors	urveyed. The map
Assessment Compo	onent Cost Agreement, SC	DUEC LOUII D-2004	







DRAWN BY:	ACE	DATE:	No. DESCRIPTION :: FORMERRTT-24FPTM	REVISIONS		
		DAIL.	0-0-10	No.	DESCRIPTION	BY
CHECKED BY:	TJB	FILE:	FORMERRTT-24FPTM			
APPROVED BY:		JOB NO:	J18-1010-24			



SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE

2





ASSESSMENT COMPONENT INVOICE SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
June 15, 2017

Facility Name: Former Ryder Terminal

UST Permit #: 11929	Cost A	greement #:		
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation	QUANTITI	ONT	OWITTRICE	TOTAL
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map	'	each	\$70.00	\$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B	I	each	\$250.00	\$0.00
2. A1. Receptor Survey *		each	\$551.00	\$0.00
3. Survey (500 ft x 500 ft)		Cacii	ψ331.00	Ψ0.00
A1. Comprehensive Survey		each	\$1,040.00	\$0.00
B. Subsurface Geophysical Survey		Cucii	Ψ1,040.00	Ψ0.00
1B. < 10 meters below grade		each	\$1,300.00	\$0.00
2B. > 10 meters below grade		each	\$2,310.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00	\$0.00
4. Mob/Demob		Cacii	Ψ710.00	ψ0.00
A1. Equipment		each	\$1,020.00	\$0.00
B1. Personnel	2	each	\$423.00	\$846.00
C1. Adverse Terrain Vehicle	2	each	\$500.00	\$0.00
5. A1. Soil Borings (hand auger)*		foot	\$5.00	\$0.00
6. Soil Borings (requiring equipment, push tecl	nnology etc):		\$5.00	φ0.00
Field Screening (including water sample, soil)* :.)*	
AA. Standard		per foot	\$15.00	\$0.00
C1. Fractured Rock		per foot	\$20.20	\$0.00
7. A1. Soil Leachability Model		each	\$60.00	\$0.00
8. Abandonment (per foot)*		Cucii	Ψ00.00	ψ0.00
A1. 2" diameter or less		per foot	\$3.10	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$4.50	\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00	\$0.00
9. Well Installation (per foot)*		por 1001	ψ10.00	ψ0.00
A1. Water Table (hand augered)		per foot	\$10.60	\$0.00
B1. Water Table (drill rig)		per foot	\$38.00	\$0.00
CC. Telescoping		per foot	\$50.00	\$0.00
DD. Rock Drilling		per foot	\$58.00	\$0.00
E1. 2" Rock Coring		per foot	\$30.90	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40	\$0.00
HH. Recovery Well (4" diameter)		per foot	\$45.00	\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00	\$0.00
J1. Rotosonic (2" diameter)		per foot	\$44.00	\$0.00
K. Re-develop Existing Well		per foot	\$11.00	\$0.00
10. Groundwater Sample Collection / Gauge D	epth to Water		ψ11.00	ψ0.00
A1. Groundwater Purge	19	per well/receptor	\$60.00	\$1,140.00
B1. Air or Vapors	''	per receptor	\$12.00	\$0.00
C1. Water Supply		per well/receptor		\$0.00
D1. Groundwater (No Purge or Duplicate)	1	per well/receptor		\$28.00
E1. Gauge Well only	'	per well	\$7.00	\$0.00
F1. Sample Below Product		per well	\$12.00	\$0.00
G1. Passive Diffusion Bag		each	\$26.00	\$0.00
H1. Field Blank	1	each	\$24.60	\$24.60
Groundwater (low flow purge)	'	per well/receptor		\$0.00

11. Laboratory Analyses-Groundwater		T			
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	22	per sample	\$122.00		\$2,684.00
AA1. Lead, Filtered	22		\$122.00		\$2,084.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60 \$153.60		\$0.00
		per sample	· ·		\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes D1. PAH's		per sample	\$36.40		
		per sample	\$60.60		\$0.00 \$0.00
E1. Lead	21	per sample	\$16.00		
F1. EDB by EPA 8011	21	per sample	\$45.20		\$949.20
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20		\$0.00
G1. 8 RCRA Metals		per sample	\$63.40		\$0.00
H1. TPH (9070)		per sample	\$41.00		\$0.00
II. pH		per sample	\$5.20		\$0.00
J1. BOD		per sample	\$20.00		\$0.00
PP. Ethanol		per sample	\$14.80		\$0.00
11. Analyses-Drinking Water			****		40.00
L. BTEXNM+1,2 DCA (524.2)		per sample	\$124.05		\$0.00
M. 7-OXYGENATES & ETHANOL (8260B)		per sample	\$91.75		\$0.00
N. EDB (504.1)		per sample	\$79.50		\$0.00
O. RCRA METALS (200.8)		per sample	\$100.00		\$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	\$64.00		\$0.00
R1. PAH's		per sample	\$64.04		\$0.00
S1. 8 RCRA Metals		per sample	\$56.40		\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00		\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96		\$0.00
W1. Grain size/hydrometer		per sample	\$104.00		\$0.00
X1. Total Organic Carbon		per sample	\$30.60		\$0.00
11. Analyses-Air			+04/00		40.00
Y1. BTEX + Naphthalene 11. Analyses-Free Phase Product		per sample	\$216.00		\$0.00
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00		\$0.00
12. Aquifer Characterization		per sample	\$307.00		\$0.00
A1. Pumping Test*		per hour	\$23.00		\$0.00
B1. Slug Test*		per flour	\$23.00 \$191.00		\$0.00
C1. Fractured Rock		'	\$191.00		\$0.00
13. A1. Free Product Recovery Rate Test*		per test each	\$38.00		\$0.00
14. Fate/Transport Modeling		еасп	\$30.00		\$0.00
A1. Mathematical Model		each	\$100.00		\$0.00
B1. Computer Model		each	\$100.00		\$0.00
15. Risk Evaluation		Cacii	Ψ100.00		ψ0.00
A. Tier I Risk Evaluation		each	\$300.00		\$0.00
B1. Tier II Risk Evaluation		each	\$100.00		\$0.00
16. A1. Subsequent Survey*		each	\$260.00		\$0.00
17. Disposal (gallons or tons)*		54611	Ψ200.00		ψ3.00
AA. Wastewater	200	gallon	\$0.56		\$112.00
BB. Free Product	== *	gallon	\$0.50		\$0.00
C1. Soil Treatment/Disposal		ton	\$60.00		\$0.00
D1. Drilling fluids		gallon	\$0.42		\$0.00
18. Miscellaneous (attach receipts)		g	77.12		, 3,00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
		each	\$0.00		\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			\$0.00
21. IGWA (Use DHEC 3666 form)		standard			\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			\$0.00
				_	

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A1. 8-hour Event*		each	\$1,375.00	\$0.00
AA. 24-hour Event*		each	\$3,825.00	\$0.00
A3. 48-hour Event*		each	\$6,265.00	\$0.00
A4. 96-hour Event*		each	\$12,567.50	\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50	\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50	\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00	\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00	\$0.00
D. Site Reconnaissance		each	\$203.25	\$0.00
E1. Additional Hook-ups		each	\$25.75	\$0.00
F1. Effluent Disposal		gallon	\$0.44	\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50	\$0.00
24. Granulated Activated Carbon (GAC) filter sy	stem installa	ation & service:		
A1. New GAC System Installation*		each	\$1,900.00	\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00	\$0.00
C1. Filter replacement/removal*		each	\$350.00	\$0.00
DD. GAC System removal, cleaning, & refurbish	hment*	each	\$275.00	\$0.00
E1. GAC System housing*		each	\$250.00	\$0.00
F. In-line particulate filter		each	\$150.00	\$0.00
G1. Additional piping & fittings		foot	\$1.50	\$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered	1	each	\$50.00	\$50.00
B1. Repair 2x2 MW pad*		each	\$50.00	\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00	\$0.00
D1. Repair well vault*		each	\$118.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
H1. Replace/Repair stick-up*		each	\$134.00	\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00	\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00	\$0.00
Report Prep & Project Coordination	12%	percent	\$5,983.80	\$718.06
TOTAL				\$6,701.86

^{*}The appropriate mobilization cost can be added to complete these tasks, as necessary.



INGRID L AUTEN 4925 COACH HILL DR **GREENVILLE SC 29615**

'AUG 2 9 2018



Groundwater Sampling Directive Re:

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit #11929; CA #57813 Release #2 reported February 25, 1997

SSWP received August 10, 2018

Greenville County

Dear Ms. Auten:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced Site Specific Work Plan submitted on your behalf by Bunnell-Lammons Engineering, Inc. This scope of work will include comprehensive groundwater sampling to evaluate current site conditions. All work should be conducted in accordance with the contractor's ACQAP, and must be conducted in compliance with all applicable regulations. A copy of the DHEC QAPP for the UST Management Division is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance.

Activities at the site should begin immediately upon receipt of this letter. Cost agreement #57813 has been approved for the amount shown on the enclosed cost agreement form for a comprehensive groundwater sampling event. Groundwater samples will be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, 8 Oxygenates and EDB. All wells will need to be purged prior to sampling. Sampling and analyses should be conducted in accordance with Appendix F of the ACQAP and to include duplicate samples, field and trip blanks.

The Monitoring Report and invoice are due within 60 days from the date of this letter. The report submitted at the completion of these activities should include the required information outlined in the ACOAP. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Bunnell-Lammons Engineering, Inc. can submit an invoice for direct payment from State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding the services and report preparation must be satisfied.

If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that Sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that no costs will be allowed unless prior approval from DHEC is obtained. If for any reason additional tasks will be completed, these additional tasks and the associated cost must be pre-approved by DHEC for the cost to be paid. DHEC reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, DHEC reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note if unnecessary dilutions are completed resulting in reporting limits of individual Chemicals of Concern in excess of Risk-Based Screening Levels (RBSLs), the data cannot be used. In those cases, the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL. The UST Management Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release.

DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. The transport and disposal must be conducted in accordance with the ACQAP. If the CoC concentrations based on laboratory analysis are below RBSLs, please contact the project manager for approval to dispose of soil and/or groundwater on site. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

On all correspondence regarding this site, please reference **UST Permit #11929** and **CA #57813**. If you have any questions regarding this correspondence, please contact me by telephone at (803) 898-0631 or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Lóoper, Hydrogeologist

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Bunnell-Lammons Engineering, Inc, 6004 Ponders Ct., Greenville, SC 29615(w/enc)

Technical File (w/ enc)

Approved Cost Agreement

57813

Facility: 11929 FORMER RYDER TERMINAL

LOOPERAM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN				
	A1 SITE SPECIFIC WORK PLAN	1.0000	\$150.000	150.00
04 MOB/DEMOB				
	B1 PERSONNEL	2.0000	\$423.000	846.00
10 SAMPLE COLLECTION				
	A1 GROUNDWATER (PURGE)	19.0000	\$60.000	1,140.00
	D1 GROUNDWATER NO PURGE/DUPLICATE	1.0000	\$28.000	28.00
	H1 FIELD BLANK	1.0000	\$24.600	24.60
11 ANALYSES				
GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22.0000	\$122.000	2,684.00
	F1 EDB BY 8011	21.0000	\$45.200	949.20
17 DISPOSAL		•		
	AA WASTEWATER	200.0000	\$0.560	112.00
19 RPT/PROJECT MNGT & COORDINATIO				
•	PRT REPORT PREPARATION	0.1200	\$5,983.800	718.06
25 WELL REPAIR			-	
	A1 ADDITIONAL COPIES OF REPORT	1.0000	\$50.000	50.00

6,701.86

Total Amount

Document Receipt Information

Hard Copy	CD	Email
Date Received	12-28-16	5
Permit Number	11727	
Project Manager	Adam	Looper
Name of Contractor	BLE	•
UST Certification Nu	mber	
Docket Number	· 	424ech
Scanned		
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REPORT OF GROUNDWATER SAMPLING AND AGGRESSIVE FLUID VAPOR RECOVERY EVENT – NOVEMBER 2018

FORMER RYDER TRUCK TERMINAL
10 WOODS LAKE DRIVE
GREENVILLE, GREENVILLE COUNTY, SOUTH CAROLINA
UST PERMIT #11929; COST AGREEMENT #57813

Prepared For: The Estate of Lloyd Auten 4925 Coach Hill Drive Greenville, SC 29615

SCDHEC Certified Contractor No. UCC-0010 BLE Project Number J18-1010-24

December 20, 2018





December 20, 2018

South Carolina Department of Health and Environmental Control Bureau of Land and Waste Management Underground Storage Tank Management Division 2600 Bull Street Columbia, South Carolina 29201-1708

Attention: Mr. Adam Looper, Hydrogeologist

Subject: Report of Groundwater Sampling and Aggressive Fluid Vapor Recovery Event –

November 2018

Former Ryder Truck terminal

10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929; CA #57813 BLE Project No. J18-1010-24

Dear Mr. Looper:

On behalf of the Estate of Lloyd Auten, Bunnell-Lammons Engineering, Inc. (BLE) has completed a comprehensive groundwater sampling event and one 96-hour Aggressive Fluid Vapor Recovery (AFVR) event at the subject site. This scope of work was performed in response to a South Carolina Department of Health and Environmental Control (SCDHEC) directive letter dated August 29, 2018 and is in accordance with BLE's Site Specific Work Plan (SSWP) submitted on June 22, 2018. This report describes the work performed and presents the results obtained, along with our comments and recommendations. Please do not hesitate to contact us if you have any questions concerning this report.

Sincerely,

BUNNELL LAMMONS ENGINEERING INC.

Ivan A. Irizarry Staff Geologist Trevor J. Benton, P.G. Senior Hydrogeologist

Registered, South Carolina No. 2395

cc: Estate of Lloyd Auten, 4925 Coach Hill Drive, Greenville South Carolina 29615



1.0 BACKGROUND INFORMATION

The subject property is located at 10 Woods Lake Road in Greenville, South Carolina (Figure 1) and is owned by Wheeler Properties, LLC. The site is currently occupied by Aiken Brothers of the Upstate, a residential and commercial lawn equipment repair shop.

From the mid 1980's to the late 1990's, the site was owned by the Estate of Mr. Lloyd Auten and occupied (leased) by an automotive repair and body shop (Taylor's Automotive) and later a truck maintenance and refueling terminal (Ryder Truck Rental, Inc.). In 1989, four USTs were removed from the site and petroleum hydrocarbons were detected in the soils within the UST excavation zones. In 1992 and 1996, BLE performed Phase I and Phase II Environmental Site Assessments of the site. From the Phase II sampling, soil and groundwater contamination was detected from the UST releases. Subsequently, Tier I and Tier II site assessments (RA and SLA) were conducted by BLE in 1998. As required by the SCDHEC, the site was resampled in 1999, 2001, 2003, and 2005 for comparison with prior results. Additional environmental assessments have been performed at the subject site to define the extent of petroleum contamination and to remove free-product through multiple Aggressive Fluid Vapor Recovery (AFVR) events.

In an effort to evaluate current groundwater chemicals of concern (CoC) trends at the subject site, the SCDHEC has required a comprehensive groundwater sampling event be conducted. The results of this scope of work are provided herein.



2.0 GROUNDWATER SAMPLING

Date Sampled:	November 7-8, 201	18			
Total Number of Wells Associated with	19	MW-01, MW-02, MW-02D, MW-			
Site:		03R, and MW-04 through MW-18			
Total Number of Wells Sampled:	14	MW-01, MW-02, MW-02D, MW-			
		03R, and MW-05, MW-08, through			
		MW-14, and MW-16			
Total Number of Wells NOT Sampled:	5	MW-06, MW-15, MW-17, and MW-			
		18 (Free-Product) and MW-07 (Well			
		Not Accessible)			
Receptors Sampled	0	None Associated			
QA / QC Samples	4	1 Duplicate Sample (MW-03R DUP),			
		2 Field Blank, and 1 Trip Blank			
Total Purge Volume (gallons)	98	Water Disposed of in Conjunction			
		with the AFVR event discussed in			
		Section 3.0.			
Analytical Laboratory	Shealy Environmen				
Analytical Methods		B and EPA Method 8011			
Free-Phase Petroleum Product	· ·	e), MW-15 (0.19-Feet), MW-17 (0.01-			
	Feet), and MW-18				
Contaminants Exceeding Risk Based	Benzene, Naphthal	ene, and 1,2-Dibromoethane (EDB)			
Screening Level Concentrations					
Groundwater Level Measurements	See Table 1				
Groundwater Sampling Logs and	See Appendix B				
Procedures					
Laboratory Analytical Summary	See Table 2A and	Table 2B			
Laboratory Analytical Results	See Appendix C				
Potentiometric Map	See Figure 2				
CoC Map	See Figure 3				



3.0 AGGRESSIVE FLUID VAPOR RECOVERY EVENT

From November 26-30, 2018, Landprobe Drilling Services (Landprobe) of Greenville, South Carolina mobilized to the site to perform one 96-hour AFVR event. Personnel from BLE's Greenville, South Carolina office were on-site for observation and monitoring during the events. A site base map is provided as **Figure 4** and a summary of the AFVR event is provided below.

3.1 **AFVR Event – November 26-30, 2018**

AFVR Well(s)	MW-06, MW-15, and MW-18
Gauged Well(s)	MW-17
Pre-AFVR Free-Product Thickness	1.44-feet in MW-06, 0.23-feet in MW-15, and 0.03 feet in MW-18
Post-AFVR Free-Product Thickness	No Free Product Present
Duration of AFVR Event	96 hours
Total Volume of Liquid Recovered	7,111 gallons – (98 gallons from sampling event and 7,013 gallons from AFVR event)
Volume of Free-Product in Holding Tank	2.0 gallons
Total Pounds of Free-Product Recovered (Vapor)	6.8 pounds
Total Gallons of Free-Product Recovered (Vapor)	0.9 gallons
General Weather Conditions	11/26/18 – Mostly Sunny, Average Temp 57°F 11/27/18 – Mostly Sunny, Average Temp 48°F 11/28/18 – Mostly Sunny, Average Temp 48°F 11/29/18 – Partly Cloudy, Average Temp 55°F 11/30/18 – Cloudy/Rain, Average Temp 57°F

Pertinent data collected throughout the AFVR event is included in **Table 3**. Waste transportation and disposal records for this AFVR event are provided in **Appendix A**.



4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on current laboratory analytical results the extent of the contamination plume appears to be substantially defined in the horizontal and vertical directions; however, free-phase product continues to persist in monitoring wells MW-06, MW-15, MW-17, and MW-18. Therefore, we recommend a series of two 96-Hour AFVR events be conducted on these wells in an effort to remove free-phase petroleum product from the subsurface and reduce source area CoC concentrations.

Approximately thirty days after the last AFVR event, we recommend conducting a comprehensive groundwater sampling event in order to evaluate the effectiveness of the AFVR events, evaluate CoC concentration trends, and monitor plume migration.



5.0 QUALIFICATION OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessments of this type. Our evaluation of site conditions has been based on our understanding of the site and project information and the data obtained in our exploration.

This report has been prepared on behalf of and exclusively for the use of the Estate of Lloyd Auten. This report and the findings contained herein shall not, in whole or in part, be used or relied upon by any other party without BLE's prior written consent. Any unauthorized use or distribution of BLE's work shall be at third parties risk and without liability to BLE.

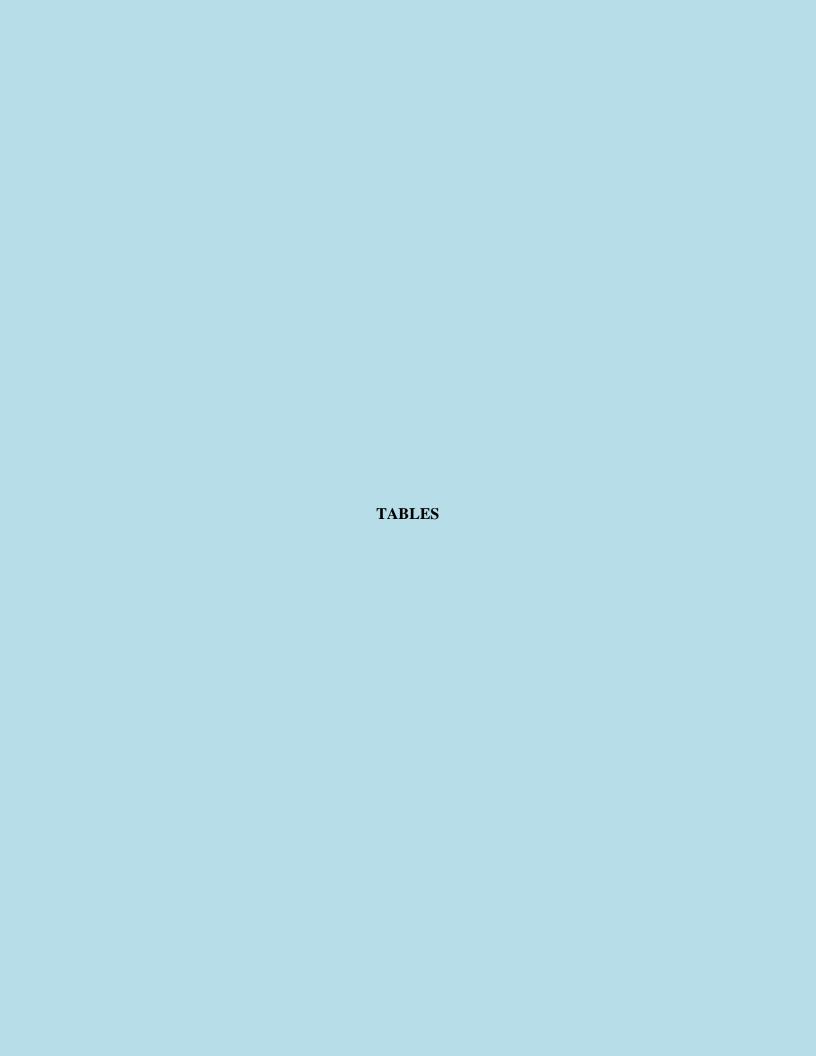


TABLE 1

Monitoring Well and Groundwater Surface Elevation Data

Former Ryder Truck Terminal **Greenville, Greenville County, South Carolina** UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Measured	Top of Casing Elevation	Ground Surface Elevation	Free Product Thickness	Groundwater Depth BTOC	Groundwater Elevation	Well Depth	Screened Interval Depth	Screened Interval Elevation
	1/21/2013				29.00	71.70			
11929-MW01	1/28/2016	100.70	98.48		20.01	80.69	31.0	21.0 - 31.0	77.5 - 67.5
	11/7/2018				26.02	74.68			
	1/21/2013				26.90	73.20			
11929-MW02	1/28/2016	100.10	100.54		19.15	80.95	30.0	20.0 - 30.0	80.5 - 70.5
	11/7/2018				23.92	76.18			
	1/21/2013				28.59	70.70			
11929-MW02D	1/28/2016	99.29	99.76		21.03	78.26	54.5	49.5 - 54.5	50.3 - 45.3
	11/7/2018				26.02	73.27			
11929-MW03	1/21/2013				Well abandoned	d December 5, 200	5		
	1/21/2013*			0.21	26.36	72.64			
11929-MW03R	1/28/2016	99.00	99.57		18.78	80.22	32.4	22.2 - 32.2	77.4 - 67.4
	11/7/2018				23.58	75.42			
	1/21/2013*			0.37	26.31	76.36			
11929-MW04	1/28/2016*	102.67	102.91	0.08	20.03	82.64	29.5	19.5 - 29.5	83.4 - 73.4
	11/7/2018				23.46	79.21			
	1/21/2013				26.55	74.93			
11929-MW05	1/28/2016	101.48	101.71		17.62	83.86	29.0	19.0 - 29.0	82.7 - 72.7
	11/7/2018				23.02	78.46			
	1/21/2013*			1.83	27.85	73.89			
11929-MW06	1/28/2016*	101.74	102.12	0.33	20.08	81.66	29.5	19.5 - 29.5	82.6 - 72.6
	11/7/2018*			1.05	24.83	76.91			
	1/21/2013				Not Accessible	•			
11929-MW07	1/28/2016	92.67	92.97		Not Accessible		32.8	22.8 - 32.8	70.2 - 60.2
	11/7/2018				Not Accessible				
	1/21/2013				Not Accessible				
11929-MW08	1/28/2016	88.76	88.87		Not Accessible		29.8	19.8 - 29.8	69.1 - 59.1
	11/7/2018				22.40	66.36			
	1/21/2013				27.35	74.91			
11929-MW09	1/28/2016	102.26	102.65		17.74	84.52	30.7	20.4 - 30.4	82.3 - 72.3
	11/7/2018				23.77	78.49			
	1/21/2013				26.35	78.32			
11929-MW10	1/28/2016	104.67	104.67		17.46	87.21	30.1	19.8 - 29.8	84.9 - 74.9
	11/7/2018				23.09	81.58			
	1/21/2013				Not Accessible				
11929-MW11	1/28/2016	100.66	100.92		Not Accessible		31.0	20.7 - 30.7	80.2 - 70.2
	11/7/2018				23.14	77.52			
	1/21/2013				27.85	73.53			
11929-MW12	1/28/2016	101.38	101.68		20.41	80.97	30.9	20.7 - 30.7	81.0 - 71.0
	11/7/2018				24.94	76.44			
	1/21/2013				25.80	72.82			
11929-MW13	1/28/2016	98.62	98.95		19.04	79.58	33.2	23.0 - 33.0	76.0 - 66.0
	11/7/2018				22.87	75.75			
	1/21/2013				25.85	73.45			
11929-MW14	1/28/2016	99.30	99.83		18.89	80.41	32.0	21.8 - 31.8	78.0 - 68.0
	11/7/2018				22.79	76.51			
	1/21/2013*			0.25	26.38	74.01		1	
11929-MW15	1/28/2016*	100.39	100.58	1.06	18.04	82.35	33.5	23.3 - 33.3	77.3 - 67.3
	11/7/2018			0.19	23.11	77.28			
	1/21/2013				25.49	77.25			
11929-MW16	1/28/2016	102.74	103.03		17.96	84.78	34.4	24.2 - 34.2	78.8 - 68.8
	11/7/2018				23.67	79.07			
	1/21/2013*			2.90	27.47	74.62			
11929-MW17	1/28/2016*	102.09	102.49	0.06	19.97	82.12	35.0	24.8 - 34.8	77.7 - 67.7
	11/7/2018			0.01	23.82	78.27			
	1/21/2013*			0.40	27.12	73.27		1	
11929-MW18	1/28/2016	100.39	100.74		19.46	80.93	35.6	25.4 - 35.4	75.3 - 65.3
	11/7/2018	100.07	200.71	0.03	23.29	77.10	23.0	33.7	05.5
	11///2018			0.03	43.49	77.10		<u> </u>	

NOTES:

Measurements are in feet; elevations are relative to an arbitrary site datum.

^{*} = Depth to groundwater measurements have been corrected for the presence of free-product using a density of 0.70 g/cc. BTOC = Below Top of Casing

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	MTBE (μg/L)	Naphthalene (μg/L)	EDB (µg/L)	1,2-DCA (μg/L)	
SC DHEC R	RBSL		5	1,000	700	10,000	40	25	0.05	5	
	12/13/96		20.6	1.74	2.61	6.4	ND	ND	NT	NT	
	2/10/98		ND	ND	ND	ND	ND	ND	ND	NT	
	3/29/99		2.6	ND	ND	ND	ND	ND	NT	NT	
	7/5/01		ND	ND	ND	ND	ND	ND	NT	NT	
	1/28/03		ND	ND	ND	ND	ND	ND	NT	NT	
	2/3/04		ND	ND	ND	ND	ND	ND	NT	NT	
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT	
11929-MW01	2/23/06		ND	ND	ND	ND	ND	ND	ND	NT	
11929-14144-01	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT	
	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND	
	2/23/09		ND	ND	ND	ND	ND	ND	0.028	NT	
	11/23/09		<5	<5	<5	<10	<5	<5	< 0.020	<5	
	11/2/11		<5	<5	<5	<5	<5	<5	< 0.020	<5	
	1/21/13		<5	<5	<5	<5	<5	<5	< 0.020	<5	
	1/28/16		< 0.21	< 0.24	< 0.21	< 0.32	< 0.23	< 0.14	< 0.0048	< 0.23	
	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	1.6 J	< 0.021	< 0.40	
	12/13/96		249	22.5	43.5	363	11.1	900	NT	NT	
	2/10/98	0.70				_	Presence of Free-				
	3/29/99	1.25					Presence of Free-				
	7/5/01	1.25	Not Sampled Due to the Presence of Free-Product								
	1/28/03	1.92	Not Sampled Due to the Presence of Free-Product								
	2/2/04	0.01					Presence of Free-				
	1/20/05	0.23		1			Presence of Free-	Product	T		
11929-MW02	2/23/06		120	ND	6.8	170	ND	240	0.33	NT	
	5/29/07	0.26				=	Presence of Free-				
	9/9/08	0.29				-	Presence of Free-				
	2/23/09	0.02		1	1	· -	Presence of Free-		I		
	11/23/09		25.6	<5	<5	41.1J	<5	53.3	0.061	<5	
	11/2/11		35.0	<5	<5	16.0	0.59J	110	< 0.019	<5	
	1/21/13		37.0	<25	<25	40.0	<25	440	<0.019	<25	
	1/28/16		25.0	< 0.24	<0.21	33.0	<0.23	59.0	0.013 J	<0.23	
	11/8/18		29.0	<2.0	<2.0	19 J	<2.0	84.0	< 0.020	<2.0	
	2/10/98		2.55	ND	ND	3.21	ND	12.5	ND	NT	
	3/29/99		3.47	ND	ND	ND	3.12	4.3	NT	NT	
	7/5/01		ND	ND	ND	ND	ND	ND	NT	NT	
	1/28/03		1.4	ND	ND	ND	1.2	ND	NT	NT	
	2/3/04		ND	ND	ND	ND	3.7	ND	NT	NT	
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT	
11020 MW02D	2/23/06		ND	ND ND	ND	ND	ND	ND	ND NT	NT	
11929-MW02D	5/29/07 9/9/08		ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	NT ND	NT ND	
	2/23/09		ND 1.1	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND NT	
	11/23/09				ND <5	<10	ND <5	ND <5	<0.020	<5	
	11/23/09		1.2J 2.9J	<5 <5	<5	<10	0.68J	3.2J	<0.020	<5	
	1/2/11		2.9J	<5	<5	<5	0.68J 0.58J	3.23 <5	<0.019	<5	
	1/21/13		<0.21	<0.24	<0.21	<0.32	<0.23	0.57 J	<0.019	<0.23	
	11/8/18		2.6 J	<0.40	<0.21	<0.32	<0.23	<0.40	<0.020	<0.23	
	2/10/98		62.5	6.4	19.3	193	ND	106	ND	NT	
	3/29/99	0.01	UAI.U	J.7			Presence of Free-		1110	111	
	7/5/01	0.01				_	Presence of Free-				
11929-MW03	1/28/03	0.12					Presence of Free-				
	2/2/04		NS	NS	NS NS	NS	NS	NS	NS	NS	
	1/20/05		NS	NS	NS	NS	NS	NS	NS	NS	
	2/23/06		~	I - '~		itoring Well Aban	l .	\~	<u>, - '~</u>		
	2/24/06		40.0	ND	ND	81.0	ND	120	0.90	NT	
	5/29/07		48.0	ND	ND	109	ND	140	0.51	NT	
			23.2	ND	ND	17.7	ND	63.2	0.44	ND	
	9/9/08		Not Sampled Due to the Presence of Free-Product								
		0.60			Not San	npica Due to the					
11929-MW03R	9/9/08						Presence of Free-				
11929-MW03R	9/9/08 2/23/09	0.60			Not San	npled Due to the		-Product			
11929-MW03R	9/9/08 2/23/09 11/23/09	0.60			Not San Not San	npled Due to the	Presence of Free-	-Product -Product			
11929-MW03R	9/9/08 2/23/09 11/23/09 11/2/11	0.60 0.04 0.35	0.42 J	<0.24	Not San Not San	npled Due to the	Presence of Free- Presence of Free-	-Product -Product	<0.0049	<0.23	
11929-MW03R	9/9/08 2/23/09 11/23/09 11/2/11 1/21/12	0.60 0.04 0.35 0.21		<0.24 <0.40	Not San Not San Not San	mpled Due to the mpled Due to the mpled Due to the	Presence of Free- Presence of Free- Presence of Free-	-Product -Product -Product	<0.0049 0.051	<0.23 0.43 J	

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	MTBE (µg/L)	Naphthalene (μg/L)	EDB (µg/L)	1,2-DCA (μg/L)
SC DHEC R	BSL.		5	1,000	700	10,000	40	25	0.05	5
	2/10/98		2.2	ND	1.73	150	ND	186	ND	NT
	3/29/99		ND	ND	ND	10.6	ND	26.2	NT	NT
	7/5/01		ND	ND	ND	21.5	ND	49.6	NT	NT
	1/28/03		ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04		ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
11929-MW04	9/9/08	0.96	ND	ND		1	Presence of Free-		111	IVI
	2/23/09	NA			Not Sai		l Dry	Troudet		
	11/23/09	0.47			Not Sor		Presence of Free-	Product		
	11/2/11	1.32				=	Presence of Free-			
	1/21/13	0.37				•	Presence of Free-			
							Presence of Free-			
	1/28/16	0.08	z0.40	-0.40	1	_			r0 020	r0 40
	11/8/18		<0.40	<0.40	0.71 J	9.8	<0.40	170	<0.020	<0.40
	2/10/98		16.5	ND	ND	6.83	ND	33.3	ND	NT
	3/29/99		ND	ND	1.13	6.26	ND	50.2	NT	NT
	7/5/01		ND 25.2	ND	ND 5.1	ND	ND	ND 5.0	NT	NT
	1/28/03		25.2	11.5	5.1	32.4	ND	5.0	NT	NT
	2/2/04		23.1	4.0	2.0	8.7	ND	ND	NT	NT
	1/20/05		11.0	ND	ND	ND	ND	ND	ND	NT
	2/23/06		ND	ND	ND	ND	ND	ND	ND	NT
11929-MW05	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND
	2/23/09		1.0	5.9	2.8	7.8	ND	9.7	ND	NT
	11/23/09		<5	<5	1.8J	<10	<5	<5	< 0.019	<5
	11/2/11		0.32J	2.3J	2.4J	3.6J	<5	<5	< 0.020	<5
	1/21/13		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/28/16		< 0.21	< 0.24	< 0.21	< 0.32	< 0.23	< 0.14	< 0.0050	< 0.23
	11/8/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.019	< 0.40
	2/10/98		523	1,670	104	434	92.7	409	ND	NT
	3/29/99	1.83			Not Sar	npled Due to the	Presence of Free-	Product		
	7/5/01	>3.0				-	Presence of Free-			
	1/28/03	>3.0				-	Presence of Free-			
	2/2/04	2.19				-	Presence of Free-			
	1/20/05	1.72			Not Sar	npled Due to the	Presence of Free-	Product		
	2/23/06	1.54			Not Sar	npled Due to the	Presence of Free-	Product		
11929-MW06	5/29/07	0.63			Not Sar	npled Due to the	Presence of Free-	Product		
	9/9/08	0.42			Not Sar		Presence of Free-	Product		
	2/23/09	NA				Wel	l Dry			
	11/23/09	3.10			Not Sar	npled Due to the	Presence of Free-	Product		
	11/2/11	2.90			Not Sar	npled Due to the	Presence of Free-	Product		
	1/21/13	1.83			Not San	npled Due to the	Presence of Free-	-Product		
	1/28/16	0.33			Not Sar	npled Due to the	Presence of Free-	Product		
	11/7/18	1.05			Not Sar	npled Due to the	Presence of Free-	Product		
	9/15/99		ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01		12.9	ND	ND	11.6	6.8	20.1	NT	NT
	1/28/03		6.2	ND	ND	4.0	3.2	6.0	NT	NT
	2/2/04		ND	ND	ND	ND	3.8	ND	NT	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06		ND	ND	ND	ND	ND	ND	ND	NT
11929-MW07	9/9/08		NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09		34.0	ND	ND	40.6	2.8	89.9	0.23	NT
	11/23/09		<5	<5	<5	<10	<5	<5	< 0.019	<5
	11/2/11		0.22J	<5	<5	<5	<5	<5	0.023	<5
	1/21/13	NA			No	ot Accessible / Site	e Access Not Gran			1
	1/28/16	NA					e Access Not Gran			
	11/7/18	NA					e / Not Located			
	11///18	NA				mut Accessibl	e / INOL LOCATED			

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (μg/L)	Ethylbenzene (µg/L)	Xylenes (μg/L)	MTBE (μg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (μg/L)
SC DHEC R	BSL.		5	1,000	700	10,000	40	25	0.05	5
2011110	9/15/99		ND	ND	ND	ND	ND	ND	NT	NT
	7/5/01		ND	ND	ND	ND	ND	ND	NT	NT
	1/28/03		ND	ND	ND	ND	ND	ND	NT	NT
	2/2/04		ND	ND	ND	ND	ND	ND	NT	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06		ND	ND	ND	ND	ND	ND	ND	NT
11929-MW08	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
11929-11111100	9/9/08		NT	NT	NT	NT	NT	NT	NT	NT
	2/23/09		ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09		<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/21/13	NA			No	t Accessible / Site	e Access Not Grar	nted		
	1/28/16	NA		1	No	t Accessible / Site	e Access Not Grar	nted		1
	11/8/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.019	< 0.40
	2/3/04		ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/23/06		ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND
11929-MW09	2/23/09		ND	ND	ND	ND	ND	ND	ND	NT
	11/23/09		<5	<5	<5	<10	<5	<5	< 0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/21/13		<5	<5	<5	<5	<5	<5	< 0.019	<5
	1/28/16		< 0.21	< 0.24	<0.21	< 0.32	<0.23	<0.14	< 0.0049	< 0.23
	11/7/18		< 0.40	< 0.40	<0.40	< 0.40	< 0.40	< 0.40	< 0.020	< 0.40
	2/2/04		ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06		ND	ND	ND	ND	ND	ND	ND	NT
	5/29/07		ND	ND	ND	ND	ND	ND	NT	NT
44000 3 577/40	9/9/08		ND	ND	ND	ND	ND	ND	ND	ND
11929-MW10	2/23/09		ND	ND	ND	ND	ND	ND ~	ND 0.020	NT
	11/23/09		<5 	<5	<5	5.4J	<5	<5	<0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13		<5	<5 <0.24	<5 <0.21	2.3J <0.32	<5	<5	<0.019	<5 <0.23
	1/28/16 11/7/18		<0.21	<0.40	<0.21	<0.32	<0.23 <0.40	<0.14	<0.0047	<0.23
	2/2/04		ND	ND	ND	ND	ND	ND	ND	NT
	1/20/05		ND	ND	ND	ND	ND	ND	ND	NT
	2/24/06		ND	ND ND	ND	ND	ND ND	ND	ND ND	NT
	5/29/07		NT	NT	NT	NT	NT	NT	NT	NT
	9/9/08		NT	NT	NT	NT	NT	NT	NT	NT
11929-MW11	2/23/09		ND	ND	ND	ND	ND	ND	ND	NT
TAXAN IVA IVA II	11/23/09		<5	<5	<5	<10	<5	<5	<0.020	<5
	11/2/11		<5	<5	<5	<5	<5	<5	<0.020	<5
	1/21/13	NA		<u> </u>			e Access Not Grar			
	1/28/16	NA					e Access Not Gran			
	11/8/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.019	< 0.40
	2/24/06		ND	ND	ND	ND	6.1	ND	ND	NT
	5/29/07		ND	ND	ND	ND	11.0	ND	NT	NT
	9/9/08		ND	ND	ND	ND	11.8	ND	ND	ND
	2/23/09	NA				Wel	l Dry			·
11929-MW12	11/23/09		<5	<5	<5	<10	14.0	<5	< 0.02	<5
	11/2/11		<5	<5	<5	<5	18.0	<5	< 0.019	<5
	1/21/13		<5	<5	<5	<5	15.0	<5	< 0.019	<5
	1/28/16		< 0.21	< 0.24	< 0.21	< 0.32	< 0.23	< 0.14	< 0.0048	< 0.23
	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	1.9 J	< 0.40	< 0.020	< 0.40
	2/24/06		100	ND	ND	110	ND	100	0.76	NT
	5/29/07		160	ND	ND	199	ND	170	0.62	NT
	9/9/08		77.0	ND	ND	101	ND	226	0.162	ND
	2/23/09		23.5	ND	ND	46.2	ND	68.1	0.18	NT
11929-MW13	11/23/09		23.6	<5	<5	69.4	<5	58.4	0.46	<5
	11/2/11		34.0	<5	<5	82.0	1.7J	130	0.30	<5
	1/21/13		40.0	<25	<25	81.0	<25	190	0.12	<25
I	1/28/16		43.0	< 0.24	< 0.21	100	0.39 J	130	0.058	< 0.23
	1/26/10									

Historical Laboratory Analytical Results Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2-DCA (μg/L)		
ag Dima B	D.G.			1.000		10.000	40	2.5	0.05			
SC DHEC R	1		5	1,000	700	10,000	40	25	0.05	5		
	2/24/06		160	34.0	480	620	ND	160	0.46	NT		
	5/29/07		220	ND	550	700	ND	250	0.26	NT		
	9/9/08		82.4	3.81	54.8	67.1	ND	75.0	0.118	ND		
44000 7 57774 4	2/23/09		175	9.9	303	119.8	1.9	194	0.20	NT		
11929-MW14	11/23/09		150	10.5	263	93.8J	<10	81.5	0.084	<10		
	11/2/11		36.0	2.0J	65.0	4.3J	<5	29.0	0.013J	<5		
	1/21/13		130	<25	360	<25	<25	160	<0.021	<25		
	1/28/16		140	6.2 J	310	8.9 J	<1.2	100	<0.0048	<1.2		
	11/7/18		48 J	<4.0	320	<4.0	<4.0	92	<0.020	<4.0		
	2/24/06		100	8.0	25.0	160	ND	140	0.54	NT		
	5/29/07		190	12.0	21.0	240	ND CE	390	0.45	NT		
	9/9/08	0.29					Presence of Free-					
11020 3433/15	2/23/09	0.13				-	Presence of Free-					
11929-MW15	11/23/09	0.90					Presence of Free-					
	11/2/11	0.87					Presence of Free-					
	1/21/13	0.25					Presence of Free-					
	1/28/16	1.06					Presence of Free-					
	11/7/18 2/23/09	0.19	Not Sampled Due to the Presence of Free-Product ND ND ND ND ND NT									
	11/24/09		<5	<5	<5	<10	<5	<5	<0.020	<5		
	11/2/11		<5	<5	<5	<5	<5	<5	<0.019	<5		
11929-MW16	1/21/13		<5	<5	<5	<5	<5	<5	<0.019	<5		
	1/28/16		<0.21	<0.24	<0.21	<0.32	<0.23	0.98 J	<0.0048	<0.23		
	11/7/18		<0.40	<0.40	<0.40	<0.40	<0.40	2.2 J	<0.020	<0.40		
	2/23/09	0.79	νο. το	νο. το			Presence of Free-		νο.υ2υ	νο. το		
	11/23/09	2.31					Presence of Free-					
	11/2/11	1.65				-	Presence of Free-					
11929-MW17	1/21/13	2.90				•	Presence of Free-					
	1/28/16	0.06				-	Presence of Free-					
	11/7/18	0.01				_	Presence of Free-					
	2/23/09	0.45					Presence of Free-					
	11/23/09	0.11					Presence of Free-					
	11/2/11	0.56				-	Presence of Free-					
11929-MW18	1/21/13	0.40				-	Presence of Free-					
	1/28/16		100	0.68 J	2.0 J	82.0	5.5	260	0.13	< 0.23		
	11/7/18	0.03		1			Presence of Free-			1		
11929-FB-1	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.019	< 0.40		
11929-FB-2	11/8/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.020	< 0.40		
Trip Blank	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	NT	< 0.40		

Notes

μg/liter = micrograms/liter = approximate Parts Per Billion (ppb)

 \boldsymbol{Bold} values indicate detections over the laboratory method detection limit.

Shaded cells indicate values exceeding the RBSL. NA = Not Applicable

ND = Not Detected at the Method Detection Limit

NT = Not Detecte NT = Not Tested

 $NS = Not \ Sampled$

NE = RBSL has not been established

 $RBSL = Risk \ Based \ Screening \ Level \\ J = J-flagged \ result. \ The \ concentration \ was \ detected \ between \ the \ laboratory \ method \ detection \ limit \ and \ the \ laboratory \ reporting \ limit. \ This \ concentration \ should \ be \ considered \ approximate.$

MTBE = Methyl tertiary butyl ether

EDB = 1,2-Dibromoethane 1,2-DCA = 1,2-Dichloroethane

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (μg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (μg/L)	Ethyl-tert-butyl ether (ETBE) (μg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (μg/L)					
SC DHEC R	BSL	128	240	NE	1,400	150	10,000	47	NE					
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100					
	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20					
11929-MW01	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20					
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	<0.13	<1.5					
	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0					
	2/23/09			Not San	npled Due to the	Presence of Free-	Product	•						
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100					
11020 MW/02	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20					
11929-MW02	1/21/13	< 50	<100	<25	<100	<25	< 500	<5	<100					
	1/28/16	< 0.25	<1.5	< 0.66	8.9 J	< 0.26	<19	< 0.13	<1.5					
	11/8/18	<2.1	<40	<10	<40	<2.0	<200	<2.0	<40					
	2/23/09	NT	70.5	NT	NT	NT	NT	NT	NT					
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100					
11929-MW02D	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20					
11747-141 VV UZ U	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20					
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	<0.13	<1.5					
	11/8/18	< 0.42	17 J	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0					
11929-MW03	2/23/06				Well Ab	andoned								
	2/23/09			Not San	npled Due to the	Presence of Free-	Product							
	11/23/09			Not San	npled Due to the	Presence of Free-	Product							
11929-MW03R	11/2/11	Not Sampled Due to the Presence of Free-Product												
11929-WIW USIK	1/21/13	Not Sampled Due to the Presence of Free-Product												
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	< 0.13	<1.5					
	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0					
11929-MW03R DUP	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0					
	2/23/09		Well Dry Not Sampled Due to the Presence of Free-Product											
	11/23/09	Not Sampled Due to the Presence of Free-Product												
11929-MW04	11/2/11	Not Sampled Due to the Presence of Free-Product												
	1/21/13	Not Sampled Due to the Presence of Free-Product												
	1/28/16				_	Presence of Free-								
	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0					
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT					
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100					
11929-MW05	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20					
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20					
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5					
	11/8/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	< 0.40	<8.0					
	2/23/09			Na4 Ca	Well	<u> </u>	Draduat							
	11/23/09					Presence of Free-Presence								
11929-MW06	1/2/11					Presence of Free-								
	1/21/13					Presence of Free-l								
	11/7/18					Presence of Free-l								
	2/23/09	NT	NT	NOT Sain	NT	NT	NT	NT	NT					
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100					
	11/2/11	<10	<20	<5	<20	<5	<100	<10	<20					
11929-MW07	1/21/13	×10	\20			Access Not Grant		<u></u>	\20					
	1/21/13					Access Not Grant								
	11/7/18			110	Not Accessible									
-	2/23/09	NT	NT	NT	NT	NT NOT Escated	NT	NT	NT					
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100					
ı	11, 23, 07													
	11/2/11	<10 <20 <5 <20 <5 <100 <1 <20												
11929-MW08	11/2/11	<10	<20					<1	\20					
11929-MW08	11/2/11 1/21/13 1/28/16	<10	<20	No	ot Accessible / Site	Access Not Grant	ted	<1	\20					

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (μg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L
SC DHEC R	RBSL	128	240	NE	1,400	150	10,000	47	NE
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
11929-MW09	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
11,2,1,1,1,0,	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	< 0.13	<1.5
	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0
	2/23/09	NT	NT NT		NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
11929-MW10	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	<0.25	<1.5	<0.66	<2.3	<0.26	<19	<0.13	<1.5
	11/7/18	<0.42	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
11929-MW11	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
	1/21/13				ot Accessible / Site ot Accessible / Site				
	1/28/16	-0.42	49.0				<40	40.40	49.0
	11/8/18 2/23/09	< 0.42	<8.0	<2.0	<8.0 Well	<0.40	<40	< 0.40	<8.0
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	0.67J	<20	<5	<20	<5	46J	<10	<20
11929-MW12	1/21/13	0.073 0.40J	<20	<5	<20	<5	<100	<1	<20
	1/21/13	<0.25	<1.5	<0.66	<2.3	<0.26	<100	<0.13	<1.5
	11/7/18	<0.23	<8.0	<2.0	<8.0	<0.40	<40	<0.40	<8.0
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/24/09	<10	<100	<50	<100	<5	<200	<10	<100
	11/2/11	<10	9.1J	<5	11.0J	<5	<100	<1	<20
11929-MW13	1/21/13	<50	<100	<25	<100	<25	<500	<5	<100
	1/28/16	<0.25	8.4 J	< 0.66	15 J	<0.26	<19	<0.13	<1.5
	11/8/18	<0.42	17 J	<2.0	13 J	<0.40	<40	<0.40	<8.0
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<20	<200	<100	<200	<10	<400	<20	<200
	11/2/11	<10	<20	<5	22.0	<5	<100	<1	<20
11929-MW14	1/21/13	<50	110	<25	<100	<25	<500	<5	<100
	1/28/16	<1.3	130	<3.3	19 J	<1.3	<96	< 0.65	<7.5
	11/7/18	<4.2	230	<20	<80	<4.0	<400	<4.0	<80
	2/23/09				npled Due to the				
	11/23/09				npled Due to the				
11020 3433/4	11/2/11			Not San	npled Due to the	Presence of Free-	Product		
11929-MW15	1/21/13			Not San	npled Due to the	Presence of Free-	Product		
	1/28/16			Not San	npled Due to the	Presence of Free-	Product		
	11/7/18			Not San	npled Due to the	Presence of Free-	Product		
	2/23/09	NT	NT	NT	NT	NT	NT	NT	NT
	11/23/09	<10	<100	<50	<100	<5	<200	<10	<100
11929-MW16	11/2/11	<10	<20	<5	<20	<5	<100	<1	<20
11 <i>747</i> =1V1 VV 10	1/21/13	<10	<20	<5	<20	<5	<100	<1	<20
	1/28/16	< 0.25	<1.5	< 0.66	<2.3	< 0.26	<19	<0.13	<1.5
	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0
	2/23/09				npled Due to the				
	11/23/09				npled Due to the				
11929-MW17	11/2/11				npled Due to the				
***** ********************************	1/21/13				npled Due to the				
	1/28/16				npled Due to the				
	11/7/18			Not San	npled Due to the	Presence of Free-	Product		

TABLE 2B

Historical Laboratory Analytical Results - 8-Oxygenates

Former Ryder Truck Terminal Greenville, Greenville County, South Carolina UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (µg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (µg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (μg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L)			
SC DHEC F	RBSL	128	240	NE	1,400	150	10,000	47	NE			
	2/23/09			Not San	npled Due to the	Presence of Free-	Product					
	11/23/09	Not Sampled Due to the Presence of Free-Product										
11929-MW18	11/2/11	Not Sampled Due to the Presence of Free-Product										
11929-11111110	1/21/13	Not Sampled Due to the Presence of Free-Product										
	1/28/16	< 0.25	9.4 J	< 0.66	18 J	1.1 J	<19	< 0.13	<1.5			
	11/7/18			Not San	npled Due to the	Presence of Free-	Product					
11929-FB-1	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-FB-2	11/8/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-TB-1	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			

Notes:

 $\mu g/liter = micrograms/liter = approximate Parts Per Billion (ppb)$

Bold values indicate detections over the laboratory method detection limit.

Shaded cells indicate values exceeding the RBSL.

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NE = RBSL has not been established

RBSL = Risk Based Screening Level

The well was abandoned on 12/5/05.

 $[\]ast$ - Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.

TABLE 3

AFVR Event Data November 26-30, 2018 Former Ryder Terminal Greenville, Greenville County, South Carolina SCDHEC UST Permit #11929; Cost Agreement #57813 BLE Project No. J18-1010-24

						Monitoring W	ell Gauging Data				AFVR Field N	Ieasurements	Air Emissions				
			A	AFVR Well Vacuun (in. of Hg)	1		R Well Stinger De	pths	Adjacent Well Vacuum (in. of Hg)	Adjacent Well Depth to FP / Groundwater (ft btoc)	Vacuum at Pump (in. Hg)	Temperature (°F)	Relative Humidity	Velocity (ft/min)	Airflow (CFM)	Influent (ppm)	Effluent (ppm)
Date	Time (hh:mm)	Elapsed Time (hours)	10250-MW06	10250-MW15	10250-MW18	10250-MW06	10250-MW15	10250-MW18	10250-MW17	10250-MW17	(III. 11g)	(F)	(%)	(IVIIII)	(CFM)	ф	(ppm)
11/26/2018	08:00	0.0	18.0	23.0	25.0	23.0	26.0	24.0	0.0	23.39 / 23.41	25.0	50	68.7	240	20.9	302	0.0
11/26/2018	08:30	0.5	18.0	23.0	25.0	23.5	26.5	24.5	0.0	23.39 / 23.41	25.0	62	93.6	296	25.8	287	0.1
11/26/2018	09:00	1.0	18.0	23.0	25.0	24.0	27.0	25.0	0.0	23.39 / 23.42	25.0	75	93.6	323	28.2	320	0.1
11/26/2018 11/26/2018	09:30 10:00	1.5 2.0	18.0 18.0	23.0	25.0 25.0	24.5 25.0	27.5 28.0	25.5 26.0	0.0	23.40 / 23.42 23.41 / 23.43	25.0 25.0	80 95	93.0 93.6	388 431	33.9 37.6	310 310	0.0
11/26/2018	10:30	2.5	18.0	23.0	25.0	25.5	28.5	26.5	0.0	23.41 / 23.43	25.0	95	94.4	370	32.3	370	0.0
11/26/2018	11:00	3.0	18.0	23.0	25.0	26.0	29.0	27.0	0.0	23.42 / 23.44	25.0	95	94.8	330	28.8	356	0.0
11/26/2018	11:30	3.5	18.0	23.0	25.0	26.5	29.5	27.5	0.0	23.42 / 23.45	25.0	95	94.6	301	26.3	323	0.0
11/26/2018	12:00	4.0	18.0	23.0	25.0	27.0	30.0	28.0	0.0	23.43 / 23.45	25.0	95	93.7	322	28.1	323	0.0
11/26/2018	12:30	4.5	18.0	23.0	25.0	27.0	30.0	28.5	0.0	23.44 / 23.45	25.0	95	93.4	333	29.1	367	0.0
11/26/2018 11/26/2018	13:00 13:30	5.0 5.5	18.0 18.0	23.0 23.0	25.0 25.0	27.0 27.0	30.0 30.0	29.0 29.5	0.0	23.44 / 23.46 23.46 / 23.49	25.0 25.0	90 95	94.4 94.6	332 377	29.0 32.9	404 448	0.0
11/26/2018	13:30	6.0	18.0	23.0	25.0	27.0	30.0	30.0	0.0	23.46 / 23.49	25.0	95 95	94.6	356	31.1	448	0.0
11/26/2018	14:30	6.5	18.0	23.0	25.0	27.0	30.0	30.5	0.0	23.48 / 23.50	25.0	100	93.7	327	28.5	399	0.0
11/26/2018	15:00	7.0	18.0	23.0	25.0	27.0	30.0	31.0	0.0	23.48 / 23.51	25.0	100	94.7	336	29.3	309	0.0
11/26/2018	15:30	7.5	18.0	23.0	25.0	27.0	30.0	31.5	0.0	23.49 / 23.52	25.0	90	94.1	356	31.1	301	0.0
11/26/2018	16:00	8.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.50 / 23.53	25.0	90	93.7	391	34.1	301	0.0
11/26/2018	16:30	8.5	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.50 / 23.53	25.0	90	92.9	350	30.5	352	0.0
11/26/2018 11/26/2018	17:00 18:00	9.0 10.0	18.0 18.0	23.0	25.0 25.0	27.0 27.0	30.0 30.0	32.0 32.0	0.0	23.52 / 23.55 23.53 / 23.56	25.0 25.0	85 80	93.0 93.5	309 322	27.0 28.1	327 294	0.0
11/26/2018	19:00	11.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.54 / 23.57	25.0	80	94.0	298	26.0	294	0.0
11/26/2018	20:00	12.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.57 / 23.60	25.0	75	94.5	319	27.8	272	0.0
11/26/2018	21:00	13.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.59 / 23.64	25.0	68	94.1	350	30.5	285	0.2
11/26/2018	22:00	14.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.62 / 23.67	25.0	66	93.6	322	28.1	276	0.4
11/26/2018	23:00	15.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.64 / 23.68	25.0	70	88.8	301	26.3	276	0.4
11/27/2018	00:00	16.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.67 / 23.72	25.0	72	80.4	391	34.1	263	0.4
11/27/2018 11/27/2018	08:00 10:00	24.0 26.0	18.0 18.0	23.0 23.0	25.0 25.0	27.0 27.0	30.0 30.0	32.0 32.0	0.0	23.81 / 23.87 23.84 / 23.90	24.0 24.0	78 82	81.3 82.2	377 377	32.9 32.9	292 273	0.4
11/27/2018	12:00	28.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.87 / 23.96	25.0	82	90.4	391	34.1	273	0.4
11/27/2018	14:00	30.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.90 / 23.98	25.0	85	93.9	364	31.8	267	1.1
11/27/2018	16:00	32.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.94 / 24.00	25.0	80	91.2	336	29.3	280	1.5
11/27/2018	18:00	34.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	23.97 / 24.04	25.0	75	88.3	311	27.1	249	1.4
11/27/2018	20:00	36.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.01 / 24.08	24.0	67	76.4	294	25.7	249	1.5
11/27/2018	22:00 00:00	38.0 40.0	18.0	23.0	25.0	27.0 27.0	30.0 30.0	32.0 32.0	0.0	24.05 / 24.11	24.0 24.0	62	74.3	288	25.1 28.0	293 316	1.6
11/28/2018 11/28/2018	08:00	48.0	18.0 18.0	23.0 23.0	25.0 25.0	27.0	30.0	32.0	0.0	24.07 / 24.13 24.31 / 24.38	25.0	64 62	72.4 67.1	321 304	26.5	242	1.6 1.6
11/28/2018	10:00	50.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.35 / 24.41	25.0	69	72.6	322	28.1	242	1.7
11/28/2018	12:00	52.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.39 / 24.45	25.0	72	78.4	383	33.4	261	1.7
11/28/2018	14:00	54.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.44 / 24.50	25.0	76	87.6	341	29.8	226	1.8
11/28/2018	16:00	56.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.49 / 24.55	25.0	88	88.3	423	36.9	223	1.8
11/28/2018	18:00	58.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.52 / 24.58	25.0	84	82.9	423	36.9	223	1.9
11/28/2018	20:00 22:00	60.0 62.0	18.0	23.0	25.0 25.0	27.0 27.0	30.0 30.0	32.0 32.0	0.0	24.55 / 24.61	25.0 25.0	88 85	91.1 91.0	404 391	35.3 34.1	242 247	2.0
11/28/2018 11/29/2018	00:00	62.0	18.0 18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.59 / 24.67 24.62 / 24.69	25.0	75	91.4	415	36.2	239	2.6
11/29/2018	08:00	72.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.75 / 24.82	25.0	68	90.8	391	34.1	239	2.8
11/29/2018	10:00	74.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.77 / 24.83	25.0	62	90.4	415	36.2	225	3.0
11/29/2018	12:00	76.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.78 / 24.86	25.0	80	80.1	423	36.9	238	3.1
11/29/2018	14:00	78.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.80 / 24.88	25.0	82	81.3	397	34.6	223	3.2
11/29/2018	16:00	80.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.82 / 24.87	25.0	84	82.6	401	35.0	223	3.4
11/29/2018	18:00	82.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.85 / 24.92	25.0	86	84.7	441	38.5	205	3.5
11/29/2018 11/29/2018	20:00 22:00	84.0 86.0	18.0 18.0	23.0 23.0	25.0 25.0	27.0 27.0	30.0 30.0	32.0 32.0	0.0	24.85 / 24.93 24.86 / 24.93	25.0 25.0	82 80	85.6 87.2	421 402	36.7 35.1	198 208	3.6 3.7
11/30/2018	00:00	88.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.86 / 24.93	25.0	76	76.3	410	35.8	208	3.9
11/30/2018	08:00	96.0	18.0	23.0	25.0	27.0	30.0	32.0	0.0	24.89 / 24.95	25.0	80	74.4	411	35.9	210	4.3

Monitoring Well Number	Initial Depth to FPP (ft btoc)	Initial Depth to Water (ft btoc)	Initial FPP Thickness (ft)	Final Depth to FPP (ft btoc)	Final Depth to Water (ft btoc)	Final FPP Thickness (ft)	Water Level Change (ft)	
10250-MW06	24.21	25.65	1.44	NFPP	28.82	NFPP	3.17	
10250-MW15	23.12	23.35	0.23	NFPP	28.61	NFPP	5.26	
10250-MW18	23.35	23.38	0.03	NFPP	26.81	NFPP	3.43	
10250-MW17	23.39	23.41	0.02	24.89	24.95	0.06	1.54	

Recovery Information								
Total Volume of Water (gallons)	7,111							
Total Volume of FPP (gallons)	2.0							
Total Calculated Carbon Recovered as Emissions (pounds)	5.9							
Total Calculated Gasoline Recovered as Emissions (pounds)	6.8							
Total Calculated Gasoline Recovered as Emissions (gallons)	0.9							

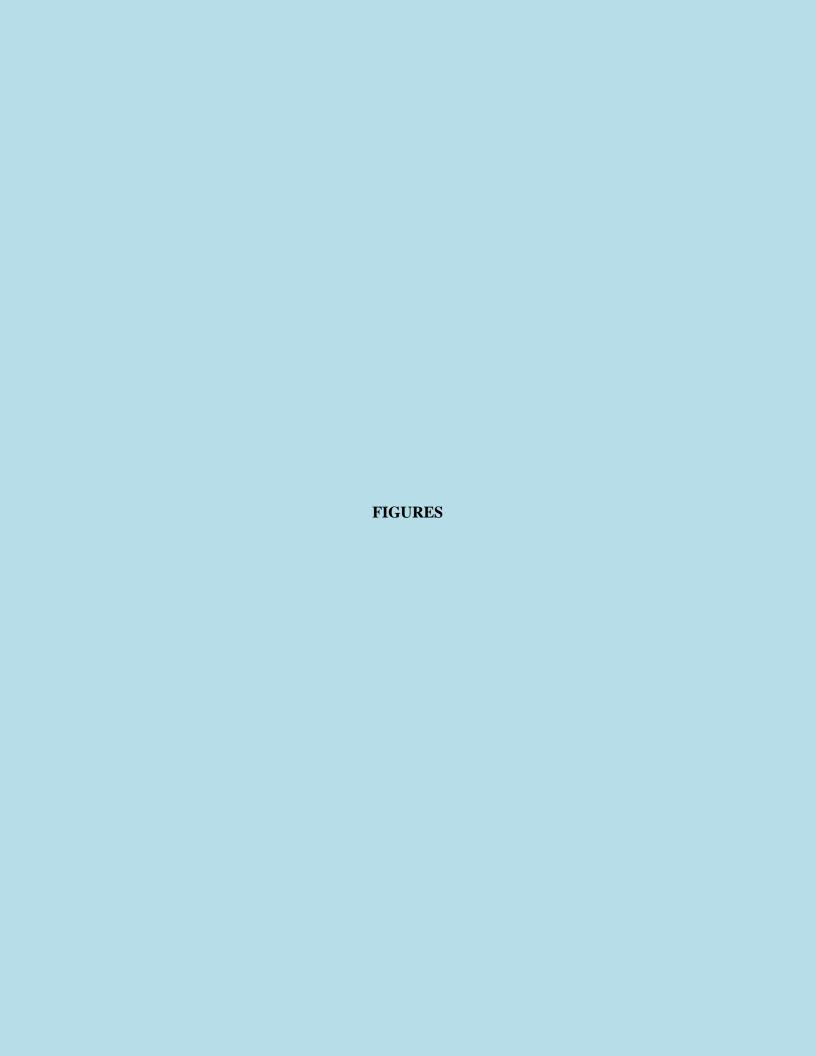
Notes: 4-inch diameter stack size

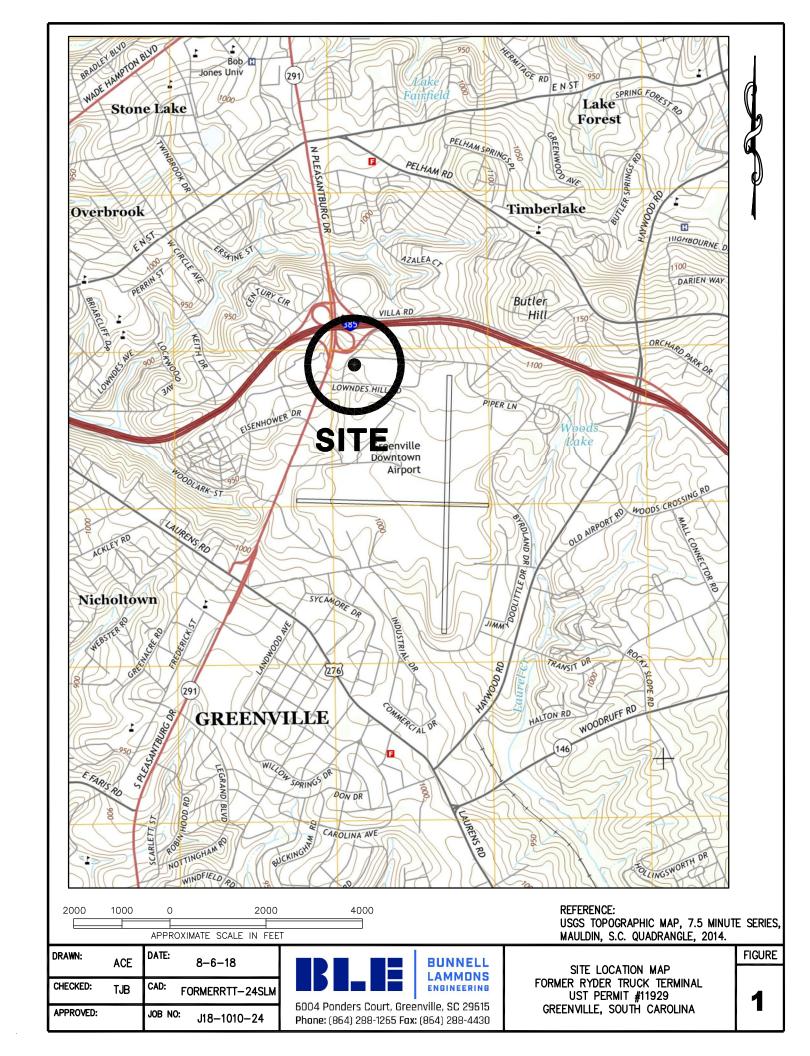
btoc - below top of casing Vapor concentrations measured with portable MiniRAE[®] 3000 PID. PID - Photo-Ionization Detector

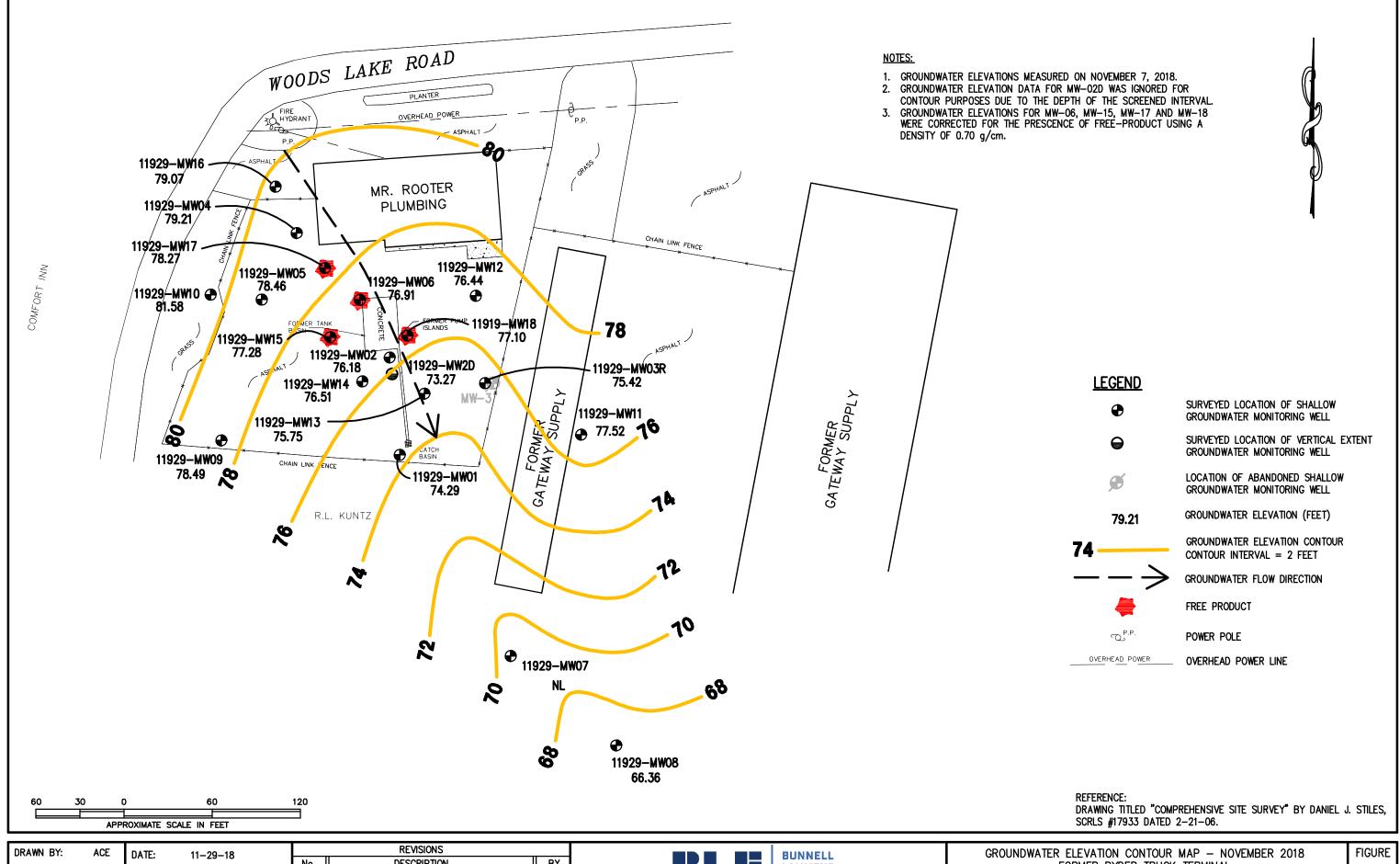
Temperature and Relative Humidity measured with an Extech 45160 Thermo-Hygro-Anemometer.
in. of Hg - inches of mercury

in. of Hg - inches of mercury
ppm - parts per million
Water Level Change (feet) = Final depth to water - initial depth to water
NFPP - No Free-Phase Product

F - Fahrenheit
CFM - Cubic feet per minute
FPP - Free-Phase Product
##.## / ##.## - Depth to FPP, Depth to Groundwater
- / ##.## - No FPP / Depth to Groundwater







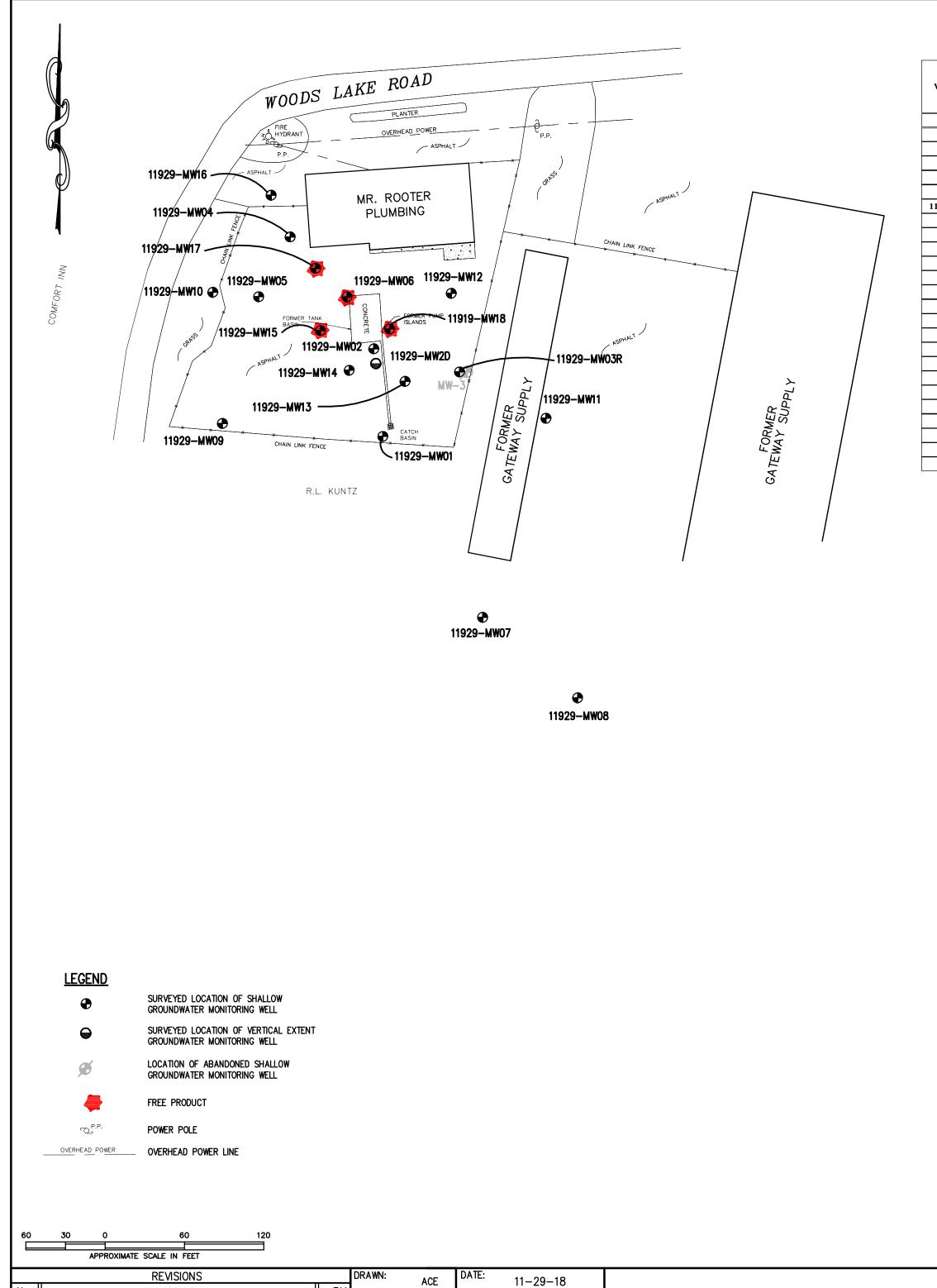
IDRAWN BY:	ACE	DATE:	11-29-18		REVISIONS						
		DATE.	11-23-10	No.	DESCRIPTION	BY					
	T.10				5 2 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						
CHECKED BY:	TJB	FILE:	FORMERRTT-24FWTM								
APPROVED BY:		JOB NO:	J18-1010-24								
ALL KOYED DI.		00B 110.	010-1010-24								



GROUNDWATER ELEVATION CONTOUR MAP — NOVEMBER 2018 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 10 WOODS LAKE ROAD GREENVILLE, SOUTH CAROLINA

I IOOKL

2



No.

DESCRIPTION

CHECKED:

APPROVED:

CAD FILE:

JOB NO:

TJB

FORMERRRTT-24GWCOC

J18-1010-24

Well Identification	Date Sampled	Free Product Thickness (feet)	Benzene (μg/L)	Toluene (μg/L)	Ethylbenzene (μg/L)	Xylenes (μg/L)	MTBE (μg/L)	Naphthalene (μg/L)	EDB (µg/L)	1,2-DCA (µg/L)
SC DHEC F	RBSL		5	1,000	700	10,000	40	25	0.05	5
11929-MW01	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	1.6 J	< 0.021	< 0.40
11929-MW02	11/8/18		29.0	<2.0	<2.0	19 J	<2.0	84.0	< 0.020	<2.0
11929-MW02D	11/8/18		2.6 J	< 0.40	< 0.40	<0.40	<0.40	< 0.40	< 0.020	< 0.40
11929-MW03	2/23/06			•	Moni	toring Well Aband	loned			'
11929-MW03R	11/7/18		10	< 0.40	< 0.40	15	<0.40	41	0.051	0.43 J
11929-MW03R DUP	11/7/18		10	< 0.40	< 0.40	15	<0.40	38	0.049	< 0.40
11929-MW04	11/8/18		< 0.40	< 0.40	0.71 J	9.8	< 0.40	170	< 0.020	< 0.40
11929-MW05	11/8/18		< 0.40	< 0.40	< 0.40	<0.40	<0.40	< 0.40	< 0.019	< 0.40
11929-MW06	11/7/18	1.05			Not Sam	pled Due to the	Presence of Free	e-Product		1
11929-MW07	11/7/18	NA				Not Accessible	e / Not Located			
11929-MW08	11/8/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.019	< 0.40
11929-MW09	11/7/18		< 0.40	< 0.40	< 0.40	<0.40	< 0.40	< 0.40	< 0.020	< 0.40
11929-MW10	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.40	< 0.020	< 0.40
11929-MW11	11/8/18		< 0.40	< 0.40	< 0.40	<0.40	<0.40	< 0.40	< 0.019	< 0.40
11929-MW12	11/7/18		< 0.40	< 0.40	< 0.40	< 0.40	1.9 J	< 0.40	< 0.020	< 0.40
11929-MW13	11/8/18		25	< 0.40	< 0.40	61	<0.40	150	< 0.020	< 0.40
11929-MW14	11/7/18		48 J	<4.0	320	<4.0	<4.0	92	< 0.020	<4.0
11929-MW15	11/7/18	0.19			Not Sam	pled Due to the	Presence of Free	e-Product		1
11929-MW16	11/7/18		< 0.40	< 0.40	< 0.40	<0.40	< 0.40	2.2 J	< 0.020	< 0.40
11929-MW17	11/7/18	0.01	Not Sampled Due to the Presence of Free-Product							
11929-MW18	11/7/18	0.03			Not Sam	pled Due to the	Presence of Free	e-Product		
11929-FB-1	11/7/18		<0.40	< 0.40	< 0.40	<0.40	<0.40	< 0.40	< 0.019	< 0.40
11929-FB-2	11/8/18		<0.40	< 0.40	< 0.40	<0.40	<0.40	< 0.40	< 0.020	< 0.40
Trip Blank	11/7/18		<0.40	< 0.40	< 0.40	<0.40	<0.40	< 0.40	NT	<0.40

Well Identification	Date Sampled	Tert-Amyl Methyl Ether (TAME) (µg/L)	Tert-Amyl Alcohol (TAA) (μg/L)	Tert-Butyl Formate (TBF) (µg/L)	Tert-Butyl Alcohol (TBA) (μg/L)	Diisopropyl Ether (IPE) (µg/L)	Ethanol (µg/L)	Ethyl-tert-butyl ether (ETBE) (µg/L)	Ethyl-Tert- butyl Alcohol (ETBA) (µg/L)			
SC DHEC R	BSL	128	240	NE	1,400	150	10,000	47	NE			
11929-MW01	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW02	11/8/18	<2.1	<40	<10	<40	<2.0	< 200	<2.0	<40			
11929-MW02D	11/8/18	< 0.42	17 J	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW03	2/23/06	Well Abandoned										
11929-MW03R	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW03R DUP	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW04	11/8/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW06	11/7/18	Not Sampled Due to the Presence of Free-Product										
11929-MW07	11/7/18				Not Accessible	/ Not Located						
11929-MW08	11/8/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW09	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW10	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW11	11/8/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW12	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW13	11/8/18	< 0.42	17 J	<2.0	13 J	< 0.40	<40	< 0.40	<8.0			
11929-MW14	11/7/18	<4.2	230	<20	<80	<4.0	<400	<4.0	<80			
11929-MW15	11/7/18			Not San	pled Due to the 1	Presence of Free	-Product					
11929-MW16	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-MW17	11/7/18			Not San	pled Due to the 1	Presence of Free	-Product					
11929-MW18	11/7/18	Not Sampled Due to the Presence of Free-Product										
11929-FB-1	11/7/18	<0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-FB-2	11/8/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			
11929-TB-1	11/7/18	< 0.42	<8.0	<2.0	<8.0	< 0.40	<40	< 0.40	<8.0			

Notes:

µg/liter = micrograms/liter = approximate Parts Per Billion (ppb) **Bold** values indicate detections over the laboratory method detection limit.

Shaded calls indicate values avaged in the PDSI.

Shaded cells indicate values exceeding the RBSL.

ND = Not Detected at the Method Detection Limit

NT = Not Tested

NE = RBSL has not been established RBSL = Risk Based Screening Level

*- Monitoring well MW-3 was damaged (object in well) prior to the 2/2/04 sampling event.

The well was abandoned on 12/5/05.

REFERENCE:
DRAWING TITLED "COMPREHENSIVE SITE SURVEY" BY DANIEL J. STILES,
SCRLS #17933 DATED 2-21-06.

GROUNDWATER COC MAP - NOVEMBER 2018
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT **11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

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FIGURE NO.

J: \CAD Files\Templates\Templates SLM\CAD Logo.jpg



APPENDIX A DISPOSAL MANIFESTS

A	NON-HAZARDOUS 1. Generator ID Number WASTE MANIFEST	2. Page 1 of 3. Er	ergency Respons		4. Waste T		The state of the s				
	5. Generator's Name and Mailing Address	Gone	rator's Sita Address	e lif different	than mailing addre	lase					
	BUNNELL LAMOS FNGINEERING 10 WOODS LAKERD. 6004 PONDERS CT. 79615 GREENVILLE SC 79605 Generator's Phone: GREEN VILLE SC 79605										
	Generator's Phone: 6 REEN VILLE SC 796 (S SEEEN VILLE SC 1966) 6. Transporter 1 Company Name U.S. EPA ID Number										
	PHILLIPS RELOVERIES SCROODT857										
	7. Transporter 2 Company Name U.S. EPA ID Number										
	8. Designated Facility Name and Site Address U.S. EPA ID Number										
	NS INC - 305 S. MAIN ST.										
	Facility's Phone: MALLISOIN SC 24662					T					
	9. Waste Shipping Name and Description		No.	Type	11. Total Quantity	12. Unit Wt./Vol.					
GENERATOR -	" WELL WATER # 21147		100	TT	4000	G					
- GENE	2.										
	3.										
	4.7										
	4.										
	13. Special Handling Instructions and Additional Information										
	WAO 100p-145p										
	,										
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the marked and labeled/placarded, and are in all respects in proper condition.	ne contents of this consignment are fully	and accurately des	scribed above	by the proper ship	oping name,	and are classified, packaged,				
	Generator's/Offeror's Printed/Typed Name	Signature	161	~/ f	iona regulations.		Month Day Year				
<u>-</u> -1	15. International Shipments Import to U.S.	Export from U.S.	Der Z	11			11 52 18				
Z	Transporter Signature (for exports only):	Export nom 0.3.	Port of e Date lea	ving U.S.:							
RTEF	16. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name	Signature	· · / /))		Month Day Year				
TRANSPORTER	Transporter 2 Printed/Typed Name	Signature	uus C	W	<u>~</u>		11 27 18 Month Day Year				
-											
A	17. Discrepancy 17a. Discrepancy Indication Space	Π.	П		П		Π				
l l	2,715 GAL BASED ON WEIGHT	Туре 	L Residue		Partial Re	ection	Full Rejection				
TY -	marinest reference workers.										
FACILITY	Facility's Phone:				1						
TED !	17c. Signature of Alternate Facility (or Generator)	Ť.					Month Day Year				
DESIGNATED			**************************************								
- DE											
	18. Designated Facility Owner or Operator: Certification of receipt of material.		d in Item 17a	1/1							
*	Printed/Typed Name Hwww lnf	Signature Car		the			Month Day Year				

098372

SCALE TICKET

11/27/2018 Progressive	02:09FM 22663
RCD I.D.	1540
Inbound weight	54700 lb
11/27/2018	02:51PM
Progressive	22667
RcD I.D.	1540
Gross	54700 lb
lai'e	32060 ib
	22640 lb

Scale Company:
Weighed By: 7.Q.
Carrier: PRT
Customer: BLE
PO/BOL/Manifest
Tractor Number: 123
Trailer Number: AVTIO6
Driver Signature: Mus Cox

WHITE - Driver YELLOW - Driver CARD - Scale



1	NON-HAZARDOUS 1. Generator ID Number 2. Page 1 of 3. WASTE MANIFEST	Emergency Respon	se Phone	4. Waste Tr		mber 129 <i>A</i>					
	5. Generator's Name and Mailing Address Ge	nerator's Site Addre	NOC	than mailing addr	ess)						
	BLE 6004 PONDERS CT. 10 WOODS LAKE RD. Generator's Phone: GREENVILLE SC 29615 GREENVILLE, SC 29605 G. Trynsports 1 Company Name THILLIPS RELOVERIES SCROQO02857										
	Generator's Phone: 67CLDTV VIUL 2 0/6/5 U.S. EPA ID Number U.S. EPA ID Number										
	THIMPS RELOVERIES 7. Transporter 2 Company Name U.S. EPA ID Number										
	8. Designated Facility Name and Site Address U.S. EPA ID Number										
	305 S. MAIN ST.										
	Facility's Phone: MAWDIW SC 29662 9. Waste Shipping Name and Description	10. Con	tainers	11. Total	12. Unit		-				
(E)	1	No.	Туре	Quantity	Wt./Vol.						
GENERATOR	#21147	00 i	TT	4000	G						
- GEN	2.										
	3.		-								
	4.										
	13. Special Handling Instructions and Additional Information										
	LOAD 210p-245p										
	14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are full marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable.					ie, and are classified, packaged,					
V	Generator's/Offeror's Printed/Typed Name Signat	,	K 11	2/20		Month Day Year	_				
INTIL	15. International Shipments Import to U.S. Export from U.S.		entry/exit: ving U.S.:								
-			ving o.s	0		Month Day Year					
TRANSPORTER	MITCH COTHAN Y Transporter 2 Printed/Typed Name Signatu	null	Cul		panieni en persianti mang	11 39 K	2				
TRA	17. Discrepancy					Month Bay real					
Î	17a. Discrepancy Indication Space Quantity Type	Residue		Partial Rej	ection	Full Rejection	1				
	2,758 @ GAL BASED ON WEIGHT	Manifest Reference	Number:	U.S. EPA ID I	Numbar		_				
FACILITY	The facility (of desired of)			U.S. EPA ID I	vumber						
ATED F	Facility's Phone: 17c. Signature of Alternate Facility (or Generator)					Month Day Year	,				
DESIGNATED	The state of the s										
		E de la la la la la la la la la la la la la	1	a pace a	7						
1	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as Printed/Typed Name Signature Signature			2//	/	Moglin Day Xar	7				
Ą	Hugh labor			-		- 11 K/VO					

098482

SCALE TICKET

11/29/2018 Progressive RoD 1.0.	03:04PM 22864 510
Inbound weight	54860 lb
11/29/2018	03:35PM
Progressive RcD I.D.	22869 510
1055	54860 lb
* * * * * * * * * * * * * * * * * * *	31880 lb
	23000 lb

Scale Company: VLS
Weighed By:
Carrier: PRT
Customer: BLE
PO/BOL/Manifest
Tractor Number:
Trailer Number: <u>AVTIO6</u>
Driver Signature: Mull Coll

WHITE - Driver YELLOW - Driver CARD - Scale



4	NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number		2. Page 1 of 3. Em	ergency Respons	se Phone	1 1000000000000000000000000000000000000	acking Num	_				
	5. Generator's Name and Mailin BUNNULL LOUT PUNDLOS	ng Address ammons Engir unvilla, SC 294	uning	Gene	ator's Site Addres Wood Yww	ss (if different S LA)	than mailing addr	(Form	ner Kyde	rtemin			
	6. Transporter 1 Company Nam 7. Transporter 2 Company Nam	Phillips Recovenes							U.S. EPA ID Number SUK 000 78 4052 U.S. EPA ID Number				
	8. Designated Facility Name an	8. Designated Facility Name and Site Address VLS RC COVEM SEMUS 305 S. Mein 84 Facility's Phone: Maulain, SU 70442							U.S. EPA ID Number				
	9. Waste Shipping Name				10. Cont	tainers Type	11. Total Quantity	12. Unit Wt./Vol.					
GENERATOR -	Well we	ater #2114)		001	TT	EST 4000	G					
GEI	2.							10 P					
The state of the s	3.												
Total Control of the	4.							100 A 100 A					
	13. Special Handling Instruction	ns and Additional Information											
		'S CERTIFICATION: I hereby declare the ded, and are in all respects in proper corped Name		cording to applicable i Signature	nternational and r	national gover				packaged, Day Year			
IT'L ←	Brian K. 15. International Shipments	.WNITE Import to U.S.		Export from U.S.	nature Port of ea	ntry/exit:	110	mounte a c					
	Transporter Signature (for export 16. Transporter Acknowledgment 16. Transporter Acknowledgment 16. Transporter Acknowledgment 16. Transporter Signature (for export 16. Transporter (for export 16. Transporter (for export 16. Transporter 16. Transporter (for export 16. Transporter 16. Transporte				Date leav	ving U.S.:							
TRANSPORTER	Transporter 1 Printed/Typed Nar Transporter 2 Printed/Typed Nar	ary		Signature	est =	7	/		1113	BO Year			
TRA	MUTCH 17. Discrepancy	COTHRAW		Signature	ruch	s Co	lle		Month 12	3 / 8			
Î	17a. Discrepancy Indication Spa	Quantity	Птуре	l	Residue		Partial Rej	ection	Full	Rejection			
FACILITY -	17b. Alternate Facility (or Gener	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Ma	nifest Reference	Number:	U.S. EPA ID I	Number	The second secon				
	Facility's Phone: 17c. Signature of Alternate Facil	lity (or Generator)			***************************************				Month	Day Year			
DESIGNATED	paramata and the				14.55// V-1	9285 TE		7. W. (10 TO 1)		世 不正常能			
- DESI													
	18. Designated Facility Owner of Printed/Typed Name	or Operator: Certification of receipt of ma	aterials covered by the	manifest except as no Signature		/ /	',	,//	Month	Day Year			
*	Franky	Chappell!		17	rank	1 6	copple		1/2	51/2			

098580

SCALE TICKET

12/03/2018 Progressive RcD I.D.	02:10PM 23039 51
Inbound weight	45660 lb
12/03/2018 Progressive RcD I.D.	02:57PM 23048 51
<u> </u>	45660 lb 70000 lb
	02000 10 13660 1b

Scale Company:	VLS
Weighed By:	<u>L</u> 5
Carrier: PR	I
Customer: BL	E
PO/BOL/Manifest	
Tractor Number:	423
Trailer Number:	
Driver Signature:	Witch Coll

WHITE - Driver YELLOW - Driver CARD - Scale

APPENDIX B

MONITORING WELL PURGING AND SAMPLING FIELD PROCEDURES AND MONITORING WELL PURGING AND SAMPLING LOGS



APPENDIX B

MONITORING WELL PURGING AND SAMPLING PROCEDURES

If required, the monitoring wells were purged prior to sample collection to remove any stagnant water from the well so that the samples collected were representative of the groundwater quality in the vicinity of each well. For wells that recovered quickly, a minimum of three volumes of water were evacuated. Specific conductance, pH, water temperature, and turbidity were measured periodically during well evacuation using instruments which were calibrated daily. Wells that were evacuated to dryness with less than three well volumes being removed were sampled as soon as the well had recovered enough to yield sufficient volume for a sample.

The monitoring wells were purged using a 3-foot long by 1.6-inch diameter disposable polyethylene bailer attached to an unused polypropylene cord. The wells were also sampled using a bailer as described above. To minimize the potential for cross-contamination between wells, a new clean bailer was used at each well.

Samples were placed in the appropriate laboratory supplied containers and marked with identifying numbers. Samples were maintained at 4°Celsius in a refrigerated sample cooler and shipped to Shealy Environmental Services in West Columbia, South Carolina via courier service for analysis.

INSTRUMENT CALIBRATION AND FREQUENCY QUALITY ASSURANCE / QUALITY CONTROL (QA/QC)

All Instrument Calibration and frequency methods are consistent with the procedures as outlined in BLE's Annual Contractor Quality Assurance Plan (ACQAP). The following calibration standards were used for calibration purposes on November 7-8, 2018.

	Quality A	Assurance	Γ
pH Sensor:	Oakton 35630-62	Conductivity Sensor:	Conductivity 35630-32 Sensor: 324976 Standard 15,000 Standard 1,413 Standard 447 Standard 84 Turbidity: 1.0-10.0 NTU
serial no.	324976	serial no.	324976
pH =4.0	4.0	Standard	15,000
pH = 7.0	7.0	Standard	1,413
pH = 10.0	10.0	Standard	447
DO Meter	YSI 60	Standard	84
Standard	0% cal	Turbidity:	1.0-10.0 NTU
	Chain of	<u>Custody</u>	
Peter J. Wylie	11/9/18 : 1027	Shealy	11/9/18 : 1027



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

19

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Page

Date	B11/11			# 110/01			
Field Personnel	mc 01/1/1						
General Weather Conditions	Conditions			Well Diameter (D)	2 inc	inch of 31.00	feet(ft)
Ambient Air Temperature (°F	perature (°F)			conversion factor (C): 3.143*(D/2)^2	7,		
				for a 2 inch well C = 0.163	0.163		
Facility Name:	Former Ryder Truck Terminal	Site ID #:	11929	for a 4 inch well C = 0.652	0.652		
				*Free Product Thickness		≠	
	Quality Assurance	surance		Total Well Depth (TWD)	31	31.00 ft	
				Depth to Groundwater (DGW)	26.	.41 ft	
pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	/D-DGW)	4.59	₽
serial no.	324976	serial no.	324976	1 Casing Volume (LWC*C) =	×	.17 = 0.78	gals
pH =4.0	4.0	Standard	15,000	3 Casing Volumes = 3 X		7.34	gals
pH = 7.0	7.0	Standard	1,413	(Star	(Standard Purge Volume)	(e	
pH = 10.0	10.0	Standard	447	Đ.			
DO Meter	YSI 60	Standard	84				
Standard	0% cal	Turbidity:	1.0-10.0 NTU				
	Chain of Custody	ustody		Total Volume of Water Purged Before Sampling	re Sampling	J. O.	gals
				*If free product is present over 1/8 inch, sampling will not be required.	nch, sampling will no	ot be required.	
Relinquished by	shed by Date/Time	Received by	Date/Time	8	60 80		
		Initial	tial 1st Vol.	2nd Vol. 3rd Vol. 4	4th Vol. 5th	5th Vol. Post	Sample
Volume Purged (gallons)	ed (gallons)	1	1.0	7,0 3.0 4	Q.		

1st Vol. 2nd Vol. 3rd Vol. 4th Vol. 5th Vol. 1.0 2.0 3.0 4.0 5.0 4.0 5.0 4.0 5.0 4.0 5.0 4.0 5.0 6.0				4	33				
		Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
			1.0	5,0	3.0	0.5			
21 5.97 6.01 6.01 5.6 5.1 15.3 [65.2 165.6 1 18.8 18.8 18.7 1 9 35.5 806 52.7 6		1919	8 9	1622	1626	632			
		6,21	2.97	109	10.0	10.0			
.4 18.8 18.8 18.7 1.9 355 80c 52.7 6 2.3 2.3 2.3 2.3		551	157.3	1,65.2	165.6	1:591			
S 806 52,7	_	19.1	18.8	18.8	18.7	18.7			
2.3		12.9	355	SO6	52.7	69.8			
		2.6	2.3	2.3	7.3	2.3			

Remarks: MW-1 sampled @ 1632 on 11/7/18.



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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X .17 =	1 Casing Volume (LWC*C) =	324976 15,000 1,413 447 84 1.0-10.0 NTU	Standard Standard Standard Standard Turbidity:	324976 seri 4.0 Star 7.0 Star 10.0 Star YSI 60 Star VSI 60 Star Chain of Custody thy Date/Time	serial no. pH =4.0 pH = 7.0 pH = 7.0 DO Meter Standard Relinquished by
= 1.03	1 Casing Volume (LWC*C) =	324976	serial no.	324976	
23.92 ft 6.08 ft	Depth to Groundwater (DGW) Length of Water Colum (LWC = TWD-DGW)	or: 35630-32	Conductivity Sensor	Oakton 35630-62	pH Sensor:
30.00 ft	Total Well Depth (TWD)		surance	Quality Assurance	
±-	*Free Product Thickness				
	for a 2 inch well C = 0.163	11929	Site ID #:	Former Ryder Truck Terminal	Facility Name: Fe
	conversion factor (C): 3.143*(D/2)^2			ature (°F)	Ambient Air Temperature (°F)
inch of 30.00 feet(ft)	Well Diameter (D)		ast	anditions Overcast	General Weather Conditions
	VVCII # INIVA-Z			nd a bo	Field Personnel

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		3.0	6.0	0.4	12.0	5:5		
Time (military)	1236	5h21	8/12/	1254	(300	1306		
pH (s.u)	6.22					٠		
Specific Conductivity	12.66	Heaw	Heavy	Heav	Heavy	Mean		
Water Temperature (°C)	21.4	1	/	1				
Turbidity (subjective: clear, slightly cloudy, cloudy)	4.89	Sheen	Sheen	Sheen	Shoon	Shopn		
Dissolved Oxygen (mg/l)	6.0							

Heavy sheen, oder Remarks: MW-2 sampled @ 1306 on 11/8/18.



Date

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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19

feet(ft) gals 54.50 *If free product is present over 1/8 inch, sampling will not be required. 26.02 inch of 54.50 .17 1 (Standard Purge Volume) Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 Depth to Groundwater (DGW) 1 Casing Volume (LWC*C) = 3 Casing Volumes = 3 X MW-2D *Free Product Thickness Total Well Depth (TWD) Well Diameter (D) Well# Date/Time 35630-32 1.0-10.0 NTU 324976 15,000 11929 1,413 447 84 Conductivity Sensor: Received by Site ID #: Turbidity: Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody Facility Name: Former Ryder Truck Terminal Date/Time Oakton 35630-62 324976 YSI 60 0% cal 10.0 7.0 4.0 Ambient Air Temperature (°F) General Weather Conditions Relinquished by Field Personnel pH Sensor: DO Meter Standard pH = 7.0pH = 10.0pH =4.0 serial no.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	1	8.0	10.01	(5.0	20.0			
Time (military)	1126	136	8h11	1200	1212			
pH (s.u)	8h.9	6.94	6.75	6.65	h9.9			
Specific Conductivity	139.7	167.6	52.2	になり	6.81			
Water Temperature (°C)	20.9	20.0	8.61	6.61	606			
Turbidity (subjective: clear, slightly cloudy, cloudy)	37.5	36.5	1.S. 4	(2,9	16.6			
Dissolved Oxygen (mg/l)	7.4	1.4	1.2	1	1.2			

Remarks: MW-2D sampled @ 1212 on 11/8/18



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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of	
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Page	

	Well # MW-3R	Well Diameter (D) 2 inch of 32.40 feet(ft)	conversion factor (C): 3.143*(D/2)^2	for a 2 inch well C = 0.163	for a 4 inch well C = 0.652	*Free Product Thickness	Total Well Depth (TWD) 32.40 ft	Depth to Groundwater (DGW)	Length of Water Colum (LWC = TWD-DGW)	1 Casing Volume (LWC*C) = X .17 = 1,49 gals	<i>δή'</i> η =	(Standard Purge Volume)				Total Volume of Water Duroad Before Sampling	*If free product is present over 1/8 inch, sampling will not be required.		2nd Vol. 3rd Vol. 4th Vol. 5th Vol. Post Sample
7 1 23	Field Personnel	General Weather Conditions	Ambient Air Temperature (°F)		Facility Name: Former Ryder Truck Terminal Site ID #: 11929		Quality Assurance		pH Sensor:	serial no.	pH =4.0 Standard	pH = 7.0 Standard	pH = 10.0	DO Meter Standard	Standard Turbidity:	Chain of Custody	Tomoro in tuesto		Initial 1st Vol.

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	•	1.5	3.0	15h	6.0	7.5		
Time (military)	1508	513	815	523	1528	1533		
pH (s.u)	86.9							
Specific Conductivity	81.65	Heavy	Heam	Hoay	Heave	Heavy		
Water Temperature (°C)	70.7	/	/	/				
Turbidity (subjective: clear, slightly cloudy, cloudy)	15.7	Sheen	Shopm	Sheen	Sheen	Sheen		
Dissolved Oxygen (mg/l)	1.2							

Heavy sheen, odes

Remarks: MW-3R sampled @1533on 11/7/18. MW-3R Dup @1535 on 11/7/18.



of	
2	

Date 11/8/15				Well# MW-4		
Field Personnel	3					
General Weather Conditions	Overcast	54		Well Diameter (D)	inch of 29.50	feet(ft)
Ambient Air Temperature (°F)				conversion factor (C): 3.143*(D/2)^2		
	-			for a 2 inch well C = 0.163		
Facility Name: Former Ryde	Former Ryder Truck Terminal	Site ID #: 11929		for a 4 inch well C = 0.652		
				*Free Product Thickness	# 	
	Quality Assurance	ance		Total Well Depth (TWD)	29.50 ft	
				Depth to Groundwater (DGW)	23.46 ft	
pH Sensor:		Conductivity Sensor:		Length of Water Colum (LWC = TWD-DGW)	707	#
serial no.		serial no.		1 Casing Volume (LWC*C) =	× .17 = 1.03	gals
pH =4.0		Standard		3 Casing Volumes = 3 X	3.08	gals
pH = 7.0		Standard		(Standard Purge Volume)	Volume)	
pH = 10.0		Standard				
DO Meter		Standard				
Standard		Turbidity:				
	; ;					8
	Chain of Custody	tody		Total Volume of Water Purged Before Sampling	0.	_gals
Relinquished by	Date/Time	Received by Da	Date/Time	ii ree product is present over 1/0 inch, sampling wiii not be required.	y will not be required.	
		- :: -		- 77 177		

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons))	1.0						
Time (military)	114	142S						
pH (s.u)								
Specific Conductivity	Heavy	Heav						
Water Temperature (°C)	/	1						
Turbidity (subjective: clear, slightly cloudy, cloudy)	Shepn	Sheen						
Dissolved Oxygen (mg/l)								

Dre Lo sal Heavy sheen, oder

Remarks:

MW-4 sampled @ 1425 on 11/8/18



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feet(ft) gals 29.00 3,06 0 *If free product is present over 1/8 inch, sampling will not be required. inch of 29.00 (Standard Purge Volume) Total Volume of Water Purged Before Sampling Length of Water Colum (LWC = TWD-DGW) for a 2 inch well C = 0.163 for a 4 inch well C = 0.652 conversion factor (C): 3.143*(D/2)^2 1 Casing Volume (LWC*C) = Depth to Groundwater (DGW) 3 Casing Volumes = 3 X MW-5 *Free Product Thickness Total Well Depth (TWD) Well Diameter (D) Well # Date/Time 35630-32 1.0-10.0 NTU 324976 15,000 11929 1,413 447 84 Conductivity Sensor: Received by Site ID #: Turbidity: Standard Standard Standard Standard serial no. Quality Assurance Chain of Custody nan Jan 1 Date/Time Facility Name: Former Ryder Truck Terminal Oakton 35630-62 324976 YSI 60 0% cal 10.0 7.0 4.0 Ambient Air Temperature (°F) General Weather Conditions Relinquished by Field Personnel pH Sensor: pH = 10.0DO Meter Standard serial no. pH =4.0 pH = 7.0Date

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	J.	5-1	2.5	3.5				
Time (military)	1536	1277	15.50	897				
pH (s.u)	5.68	5.78	5.8	15.84				
Specific Conductivity	9139	12521	126st	130.1				
Water Temperature (°C)	6:12	217	21.5	21.5				
Turbidity (subjective: clear, slightly cloudy, cloudy)	86.7	24.3	16.1	8638				
Dissolved Oxygen (mg/l)) ~ 2	1.7	11	1.63				
		<i>J</i>		1				

Remarks:

81/2/11 no 0001 1600 on 11/7/18



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/ 11							
Field Personnel			Well #	MW-6			
General Weather Conditions			Well Diameter (D)	8	inch of	29.50	feet(ft)
()			conversion factor (C): 3.143*(D/2)^2	1			(11)
			fora2i	for a 2 inch well C = 0.163			
Facility Name: Former Ryder Truck Terminal Site ID #:	11929	53	for a 4 i	for a 4 inch well C = 0.652			
Quality Assurance			*Free Product Thickness Total Well Death (TWD)	SS	1.50	#.#	
			Depth to Groundwater (DGW)	(DGW)	OX	: #=	
pH Sensor: Conductivity Sensor:	y Sensor:		Length of Water Colur	Length of Water Colum (LWC = TWD-DGW)		3 62	#
serial no.	ı		1 Casing Volume (LWC*C) =	= ()*C)	. = 71. X		gals
pH =4.0 Standard			3 Casing Volumes = 3 X	×	. 11		gals
pH = 7.0 Standard				(Standard Purge Volume)	. Volume)		
pH = 10.0 Standard				<u></u>			
DO Meter Standard							
Standard Turbidity:							
Chain of Custody			Total Volume of Water	Total Volume of Water Purged Before Sampling		1	gals
Relinquished by Date/Time Rece	Received by	Date/Time	II Tree product is pres	Tif free product is present over 1/8 inch, sampling will not be required.	y will not be require	Ġ.	
	Initial	1st Vol.	2nd Vol. 3rd Vol	Vol. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)							
Time (military)							
pH (s.u)							
Specific Conductivity							
Water Temperature (°C)							
Turbidity (subjective: clear, slightly cloudy, cloudy)							
Dissolved Oxygen (mg/l)							

Remarks:

Not sampled due to Free product *



BUNNELL-LAMMONS ENGINEERING, INC.

serial no. pH =4.0 pH = 7.0

pH = 10.0 DO Meter Standard

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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								A CONTRACTOR OF THE PROPERTY O
Date 11/8/19	orl E			Well #	MW-7			
Cooperation Conditions	2	1			•			
General Weather Conditions	してのこのとか	34	ī	well Diameter (D)	2	inch of	32.80	_ feet(ft)
Ambient Air Temperature (°F)			ĺ	conversion factor (C): 3.143*(D/2)^2): 3.143*(D/2)^2			ĺ.
	2			for a 2	for a 2 inch well C = 0.163			
Facility Name: Former Ryde	Former Ryder Truck Terminal	Site ID #:	11929	for a 4	for a 4 inch well C = 0.652			
				*Free Product Thickness	ıess	# 		
	Quality Assurance	rance		Total Well Depth (TWD)	VD)	32.80 ft		
				Depth to Groundwater (DGW)	er (DGW)	1		
pH Sensor:		Conductivity Sensor:		Length of Water Colu	Length of Water Colum (LWC = TWD-DGW)			ft
serial no.		serial no.		1 Casing Volume (LWC*C) =	VC*C) =	X .17 ×		gals
pH =4.0		Standard		3 Casing Volumes = 3 X	3 ×	l "		gals
pH = 7.0		Standard)	(Standard Purge Volume)	ge Volume))
pH = 10.0		Standard						
DO Meter		Standard						
Standard		Turbidity:						
5								
	Chain of Custody	stody		Total Volume of Wat	Total Volume of Water Purged Before Sampling)	_gals
				"It tree product is pre	"If tree product is present over 1/8 inch, sampling will not be required.	ing will not be required		
Relinquished by	Date/Time	Received by	Date/Time					
		Initial	1st Vol.	2nd Vol. 3r	3rd Vol 4th Vol	5th Vol	Post	Sample

	Initial	1st Vol.	2nd Vol.	3rd Vol.	3rd Vol. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Not located - windows covered by brush pile

Remarks:



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01/0/11								
Field Personnel			Mell #	MW-8				
General Weather Conditions	54		Well Diameter (D)	(C	2	inch of	29.80	feet(ft)
Ambient Air Temperature (°F)			conversion factor (C): 3.143*(D/2)^2	or (C): 3.143*(D	1/2)^2			
			fc	for a 2 inch well C = 0.163	3 = 0.163			
Facility Name: Former Ryder Truck Terminal	Site ID #:	11929	fe	for a 4 inch well C = 0.652	3 = 0.652			
			*Free Product Thickness	hickness	,	ı	ff	
Quality Assurance	ance		Total Well Depth (TWD)	(TWD)	•	29.80	ff	
			Depth to Groundwater (DGW)	dwater (DGW)		22.40	Ħ	
pH Sensor:	Conductivity Sensor:		Length of Water Colum (LWC = TWD-DGW)	Colum (LWC =	TWD-DGW)		7.40	ft
serial no.	serial no.		1 Casing Volume (LWC*C) =	e(LWC*C) =		. = 71. X	1.26	gals
pH =4.0	Standard		3 Casing Volumes = 3 X	es = 3 X		. 11	377	gals
pH = 7.0	Standard				(Standard Purge Volume)	Volume))
pH = 10.0	Standard				i i	e e		
DO Meter	Standard							
Standard	Turbidity:							
Chain of Custody	tody		Total Volume of Water Purged Before Sampling	Water Purged B	Sefore Sampling		6.0	gals
Relinquished by Date/Time	Received by	Date/Time	II liee broadcr	s present over 1,	/o incn, sampling	ii iree product is present over 1/o inch, sampling will not be required.		
	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons))	1.5	3.0	H.S	6.0			
Time (military)	8001	7101	000	0201	1024			
pH (s.u)	15:5	In	Cs. is	15/6	SIS			

Remarks: MW-8 sampled @ 1024 on 11/8/18.

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Water Temperature (°C)

Specific Conductivity

81/8/11 no FB-1 21415 CM 117/18 FB. 2 2730 ON 11/8/18



Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

Weather Conditions Air Temperature (°F) Air Temperature (°F) Ame: Former Ryder Truck Terminal Site ID #: Quality Assurance Conductivity Sensor: 324976 Serial no.	11929				
Ouality Assurance Conductivity Sensor: 324976 Serial no.		Well Diameter (D) 2 conversion factor (C): 3.143*(D/2)^2 for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	inch of	30.70	feet(ft)
sor: Oakton 35630-62 Conductivity Sensor: 324976 serial no.		*Free Product Thickness Total Well Depth (TWD)	30.70 ft		
pt =4.0	35630-32 324976 15,000	Depth to Groundwater (DGW) Length of Water Colum (LWC = TWD-DGW) 1 Casing Volumes = 3 \times (Standard Purce Volume)	# 7 7 2 2 T	3.54	ft gals gals
10.0 Standard Standard Standard O% cal Turbidity:	447 84 1.0-10.0 NTU				
Chain of Custody Relinquished by Date/Time Received by	Date/Time	Total Volume of Water Purged Before Sampling *If free product is present over 1/8 inch, sampling will not be required.	g will not be required	5 .	gals

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	1	5.5	3.0	64		~		
Time (military)	828	表 1434	14/40	7777				
pH (s.u)	82'5	4.59	すらら	5.5				
Specific Conductivity	78.78	413,313	46.29	2144				
Water Temperature (°C)	19:5	261	14.1	2.61				
Turbidity (subjective: clear, slightly cloudy, cloudy)	21,1	9.21	741	263				
Dissolved Oxygen (mg/l)	40	4.5	7.0	70				
			,					
								=

Remarks:

Well Sumpled a rund on 11/7/18



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Note of	3/2					
Field Personnel	MON			Well #		
General Weather Conditions	itions Synn			Well Diameter (D) 2 inc	inch of 30.10	feet(ft)
Ambient Air Temperature (°F)	re(°F) 22			C): 3.143*(D/2)^2		
				for a 2 inch well C = 0.163		
Facility Name: For	Former Ryder Truck Terminal	Site ID #:	11929	for a 4 inch well C = 0.652		
				*Free Product Thickness	# [
	Quality Assurance	ırance		Total Well Depth (TWD)	30.10 ft	
				GW)	23.09 ft	
pH Sensor:	Oakton 35630-62	Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	10%	#
serial no.	324976	serial no.	324976	1 Casing Volume (LWC*C) = 7 C X	.17 = /, 19	dals
.pH =4.0	4.0	Standard	15,000	3 Casing Volumes = 3 X	- CC	dals
pH = 7.0	7.0	Standard	1,413	(Standard Purge Volume)	ie)	
pH = 10.0	10.0	Standard	447			
DO Meter	YSI 60	Standard	84			
Standard	0% cal	Turbidity: 1.0	1.0-10.0 NTU			
	Chain of Custody	stody		Total Volume of Water Purged Before Sampling	7	gals
Relinquished by	y Date/Time	Received by	Date/Time	*If free product is present over 1/8 inch, sampling will not be required.	ot be required.	
		Initial	1st Vol.	2nd Vol. 3rd Vol. 4th Vol. 5th	5th Vol. Post	Sample

	Initial	1st Vol	2nd Vol	3rd Vol	4th Vol	5th Vol	Post	Sample
Volume Purded (gallons)		1	~	I			150	Dall Did
Time (military)	000	10-01		1				
ime (military)	000	1200	1214	52/(
pH (s.u)	5,37	5.17	21.5	5,69				
Specific Conductivity	52,49	57.37	9819	217.65				
Water Temperature (°C)	21.5	211	20.9	21.0				
Turbidity (subjective: clear, slightly cloudy, cloudy)	5,17	13,3	071	9.03				
Dissolved Oxygen (mg/l)	3.0	3.1	3.0	5.9				
		•		,				

Remarks:

Well Sym plad 2 1522 on 11/2/18



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Date			Well#	MW-11			
General Weather Conditions			Well Diameter (D)	(D) 2	inch of	31.00	feet(ft)
Ambient Air Temperature (°F)		. 1	conversion fac	conversion factor (C): 3.143*(D/2)^2			
				for a 2 inch well C = 0.163			
Facility Name: Former Ryder Truck Terminal Si	Site ID #: 11	11929		for a 4 inch well C = 0.652			
			*Free Product Thickness	Thickness	L	₩.	
Quality Assurance			Total Well Depth (TWD)	th (TWD)	31.00	#	
			Depth to Groun	Depth to Groundwater (DGW)	23.14	. #	
pH Sensor: Cond	Conductivity Sensor:		Length of Wate	Length of Water Colum (LWC = TWD-DGW)	(>	7.86	#
serial no.	no.		1 Casing Volur	1 Casing Volume (LWC*C) =	= 71. X	1.34	gals
pH =4.0 Standard	ard		3 Casing Volumes = 3	nes = 3 X	n I	U.O.	gals
pH = 7.0 Standard	ard		į		(Standard Purge Volume)		
pH = 10.0 Standard	ard			5 3	vi		
DO Meter Standard	ard						
Standard	dity:						
Chain of Custody	P		Total Volume o	Total Volume of Water Purged Before Sampling	lling	7.5	gals
			*If free product	*If free product is present over 1/8 inch, sampling will not be required	pling will not be requir	.ed.	
Relinquished by Date/Time	Received by	Date/Time					
	Initial	1st Vol.	2nd Vol.	3rd Vol. 4th Vol	. 5th Vol.	Post	Sample
Volume Purged (gallons)		12	M.O.	4.5 ASG	27 0		-
Time (military)	926	0215	h20	438 947	975		
pH (s.u)	\$:74	5.67	5.63	5.68 5.59	C.58		
Specific Conductivity	95.24	69.06	03.pp	129.1 107.9	107.1		
Water Temperature (°C)	70.4	20.7	20.8	20.6 20.4	20.3		
Turbidity (subjective: clear, slightly cloudy, cloudy)	ly) 9.99	364	526	240 178	4.72		
Dissolved Oxygen (mg/l)	7,4	2,2	2.0	2.	9		

Remarks: MW-111 sampled @ 946 en 11/8/18.



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Date 117118	Ģ			Well# MW-12	
Field Personnel	77		ı	•	
	(60)		1	Well Diameter (U) 2 inch of	of 30.90 feet(ft)
Ambient Air Temperature (°F)	22		_	conversion factor (C): 3.143*(D/2)^2	
				for a 2 inch well C = 0.163	
Facility Name: Former Ryder Truck Terminal	ruck Terminal	Site ID #:	11929	for a 4 inch well C = 0.652	
				*Free Product Thickness	ft
	Quality Assurance	ance		Total Well Depth (TWD) 30.90	# 0
				Depth to Groundwater (DGW)	4 tt
pH Sensor: Oakton 35630-62		Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	# 76.5
serial no. 324976		serial no.	324976	1 Casing Volume (LWC*C) = $X \cdot 17$	= Gals
pH =4.0		Standard 1	15,000	3 Casing Volumes = 3 X ================================	3.04 gals
pH = 7.0		Standard	1,413	(Standard Purge Volume)	
pH = 10.0		Standard	447		
DO Meter YSI 60		Standard	84		
Standard 0% cal		Turbidity: 1.0-7	1.0-10.0 NTU		
	Chain of Custody	λ ρο		Total Volume of Water Purged Before Sampling	4.0 gals
Relinquished by	Date/Time	Received by	Date/Time	ii iree product is present over 1/6 inch, sampling will not be required.	required.
			1-1/1-1	-// -/	

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)	1	0.	20	3.0	4.0			
Time (military)	1431	2E h1	1441	7	ापष्टिय			
pH (s.u)	5.85	5.83	5.82	15.85V	5:84			
Specific Conductivity	178.6	178.6	(8) 2	1559	161.0			
Water Temperature (°C)	21.8	71.4	21.2	21.3	21.3		ete()	
Turbidity (subjective: clear, slightly cloudy, cloudy)	K7.7	368	ロコ	327	166			
Dissolved Oxygen (mg/l)	1.4	91	1.7	8	18			

Dry@4.0gal Remarks: MW-12 sampled@14\$30n 11/7/18.



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I# MW-13

Date 1/0/18			Well # MM/ 13		
Field Personnel					
General Weather Conditions	7	Ĩ	Well Diameter (D) 2 inch of	33.20	feet(ft)
Ambient Air Temperature (°F)		1 1	C): 3.143*(D/2)^2		``
			for a 2 inch well C = 0.163		
Facility Name: Former Ryder Truck Terminal	Site ID #:	11929	for a 4 inch well C = 0.652		
			*Free Product Thickness	Ħ	
Quality Assurance	ince		Total Well Depth (TWD) 33.20	_ ≠	
			GW)	7 #	
pH Sensor: Oakton 35630-62 C	Conductivity Sensor:	35630-32	Length of Water Colum (LWC = TWD-DGW)	10.33	—
serial no. 324976 se	serial no.	324976	1 Casing Volume (LWC*C) = X .17	= 1.76	gals
pH =4.0 S	Standard 15	15,000	3 Casing Volumes = 3 X ===	5.27	gals
S 7.0 S	Standard 1	1,413	(Standard Purge Volume)		
pH = 10.0 S	Standard	447			
DO Meter YSI 60 S	Standard	84			
Standard 0% cal T	Turbidity: 1.0-1	1.0-10.0 NTU			
Chain of Custody	Хро		Total Volume of Water Purged Before Sampling	10.01	gals
	ł		*If free product is present over 1/8 inch, sampling will not be required.	7)
Relinquished by Date/Time	Received by	Date/Time			
	Initial	1st Vol.	2nd Vol. 3rd Vol. 4th Vol. 5th Vol.	Post	Sample

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
	1	2.0	4.0	6.0	8.0	00		
	338	1343	Lh 21	1321	9551	2071		
	6.28		•					
	121.4	Heavy	Heavi	Heam	Heave	Hoon		
	507	1	1		1			
urbidity (subjective: clear, slightly cloudy, cloudy)	19:5	Sheen	vo eys	Sheen	Sheen Sheen Sheen	Shoen		
	1,2							

Heavy sheen, o der

Remarks: MW-13 sampled @ 1400 on 11/8/18.



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4			_														
	feet(ft)							₩	- dals	gals					gals		-
	32.00				ff	Ħ	ff	9.71	1.57	69 h					6	j	
	inch of			ı	1	32.00	22.79		. = 71. X	. 11	. Volume)				Total Volume of Water Purged Before Sampling *If free product is present over 1/8 inch sampling will not be required		100.00
	2	D/2)^2	C = 0.163	C = 0.652				= TWD-DGW)			(Standard Purge Volume)				Total Volume of Water Purged Before Sampling "If free product is present over 1/8 inch. sampling		441- 77-1
MW-14	(Q)	conversion factor (C): 3.143*(D/2)^2	for a 2 inch well C = 0.163	for a 4 inch well C = 0.652	Thickness	oth (TWD)	Depth to Groundwater (DGW)	Length of Water Colum (LWC = TWD-DGW)	1 Casing Volume (LWC*C) =	mes = 3 X					of Water Purged		17/4 1770
Well#	Well Diameter (D)	conversion fac			*Free Product Thickness	Total Well Depth (TWD)	Depth to Grou	Length of Wat	1 Casing Volu	3 Casing Volumes = 3 X					Total Volume		1-// 1-0
	ĨĨ	ì		11929				35630-32	324976	15,000	1,413	447	84	1.0-10.0 NTU		Date/Time	101111
				-				Sensor:	32	15	1	,		1.0-1		ed by	14:0-1
				Site ID #:		urance		Conductivity Sensor	serial no.	Standard	Standard	Standard	Standard	Turbidity:	ypotsu	Received by	
710	Clear	22		ruck Terminal		Quality Assurance		5630-62	176))	0	09	'al	Chain of Custody	Date/Time	
81/1/11	Conditions	erature (°F)		Former Ryder Truck Terminal				Oakton 35630-62	324976	4.0	7.0	10.0	VSI 60	0% cal		hed by	
Date Field Personnel	General Weather Conditions	Ambient Air Temperature (°F)		Facility Name:				pH Sensor:	serial no.	pH =4.0	pH = 7.0	pH = 10.0	DO Meter	Standard		Relinquished by	

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons))	N.	Q.	4.S	0.9			
Time (military)	1659	1703	1708	[713	6161			
pH (s.u)	809	6.2	6.43	6.52	6.55			
Specific Conductivity	50.4C	1020	171.7	174.7	175.0			
Water Temperature (°C)	21.5	21.5	21.3	71:1	27.2			
Turbidity (subjective: clear, slightly cloudy, cloudy)	1.46	211	348	6ZS	20.01			
Dissolved Oxygen (mg/l)	1.9.1	1.6	1:3	6.7	9.Q			

Remarks: MW-14 samplede 1719 en 11/7/18



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Date 11/8/18		Well# MW-15		
Field Personnel ' PW				
General Weather Conditions		Well Diameter (D) 2	inch of 33.50	feet(ft)
Ambient Air Temperature (°F)		conversion factor (C): 3.143*(D/2)^2		ı
		for a 2 inch well C = 0.163		
Facility Name: Former Ryder Truck Terminal Site ID #:	11929	for a 4 inch well C = 0.652		
		*Free Product Thickness	0,19 ft	
Quality Assurance		Total Well Depth (TWD)	33.50 ft	
		Depth to Groundwater (DGW)	23.3) ft	
pH Sensor: Conductivity Sensor:		Length of Water Colum (LWC = TWD-DGW)	61.01	ft
serial no.		1 Casing Volume (LWC*C) =	\times .17 = 1.73	gals
pH =4.0 Standard		3 Casing Volumes = 3 X	61.7	-gals
pH = 7.0 Standard		(Standard Purge Volume)	e Volume))
pH = 10.0				
DO Meter Standard				
Standard Turbidity:				
Chain of Custody		Total Volume of Water Purged Before Sampling		gals
		*If free product is present over 1/8 inch, sampling will not be required.	g will not be required.	
Relinquished by Date/Time Received by	Date/Time			
Initial	1st Vol.	2nd Vol 3rd Vol 4th Vol	5th Vol Post	Sample

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks:

Not sampled due to free product



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19

Date WWW.	7.			Well #	MW-16			
Field Personnel								
General Weather Conditions	11 11			Well Diameter (D)	2	inch of	34.40 f	feet(ft)
Ambient Air Temperature (°F)	12			conversion factor (C): 3.143*(D/2)^2	;): 3.143*(D/2)^2			
				fora2	for a 2 inch well C = 0.163			
Facility Name: Former Ryder Truck Terminal	Site ID #:	11929		for a 4	for a 4 inch well C = 0.652			
				*Free Product Thickness	SSAL	# ##		
Quality	Quality Assurance			Total Well Depth (TWD)	VD)	34.40 ft		
				Depth to Groundwater (DGW)	er (DGW)	23.67#		
pH Sensor: Oakton 35630-62	Conductivity Sensor:	y Sensor:	35630-32	Length of Water Coli	Length of Water Colum (LWC = TWD-DGW)	,	10,73 #	
serial no. 324976	serial no.	324976		1 Casing Volume (LWC*C) =	NC*C) = 10,73	X .17 =	2	gals
pH =4.0	Standard	15,000		3 Casing Volumes = 3 X	2 X X E	"	17:	gals
pH = 7.0	Standard	1,413			(Standard Purge Volume)	Volume)		
pH = 10.0	Standard	447						
DO Meter YSI 60	Standard	84						
Standard 0% cal	Turbidity:	1.0-10.0 NTU	TU					
Chain	Chain of Custody			Total Volume of Wat	Total Volume of Water Purped Refore Sampling		500	900
				*If free product is pre	*If free product is present over 1/8 inch. sampling will not be required	will not be required		2
Relinquished by Date/Time		Received by	Date/Time		-			
		Initial	1st Vol.	2nd Vol. 3r	3rd Vol. 4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)		J	2	7	10			
Time (military)		1 4091	819	1626 16	36			
pH (s.u)		5,64 5	.29	5,30 5,	201			
Specific Conductivity		100.3	11.7	114.0	2,9			

Well Sampled a 1636 on

Turbidity (subjective: clear, slightly cloudy, cloudy)

Dissolved Oxygen (mg/l)

Remarks:

Water Temperature (°C)



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

of	
18	
Page	

19

	feet(ft)			سود	gals	gals					gals		Sample
	35.00 f			11.17	68	2,69					1		Post
	inch of		35.00 ft	23.83 ft	× .17 =	11	Volume)				Total Volume of Water Purged Before Sampling	will filet be required.	5th Vol.
	2 //2)^2	; = 0.163 ; = 0.652	(L)	TWD-DGW)			(Standard Purge Volume)				efore Sampling	o	4th Vol.
MW-17	Well Diameter (D) conversion factor (C): 3.143*(D/2)^2	for a 2 inch well C = 0.163 for a 4 inch well C = 0.652	Thickness th (TWD)	Depth to Groundwater (DGW) Length of Water Colum (LWC = TWD-DGW)	1 Casing Volume (LWC*C) =	nes = 3 X	, ~				Total Volume of Water Purged Before Sampling	n pagair and a	3rd Vol.
Well#	Well Diameter (D) conversion factor (*Free Product Thickness Total Well Depth (TWD)	Depth to Grour Length of Wate	1 Casing Volun	3 Casing Volumes = 3 X	8				Total Volume o		2nd Vol.
	1 90 8	11929										Date/Time	1st Vol.
	st	Site ID #: 11	ance	Conductivity Sensor:	serial no.	Standard	Standard	Standard	Standard	Turbidity:	Хро	Received by	Initial
JA -	Overest	Former Ryder Truck Terminal	Quality Assurance								Chain of Custody	Date/Time	
Date II/8/18 Field Personnel	General Weather Conditions Ambient Air Temperature (°F)	Facility Name: Former Ryder		pH Sensor:	serial no.	pH =4.0	pH = 7.0	pH = 10.0	DO Meter	Standard		Relinquished by	

	Initial	1st Vol.	2nd Vol.	3rd Vol.	4th Vol.	5th Vol.	Post	Sample
Volume Purged (gallons)								
Time (military)								
pH (s.u)								
Specific Conductivity								
Water Temperature (°C)								
Turbidity (subjective: clear, slightly cloudy, cloudy)								
Dissolved Oxygen (mg/l)								

Remarks: Not sampled due to free product



BUNNELL-LAMMONS ENGINEERING, INC.

Field Data Information Sheet for Ground Water Sampling Division of Underground Storage Tank Management

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Well # MW-18	Well Diameter (D) 2 inch of 35.60 feet(ft) conversion factor (C): 3.143*(D/2)^2	for a 2 inch well $C = 0.163$ for a 4 inch well $C = 0.652$ *Free Product Thickness OO3 ft	GW) -WC = TWD-DGW) X X (Standard Purge Volur		Total Volume of Water Purged Before Sampling *If free product is present over 1/8 inch, sampling will not be required.
Date 1/8/18 Prield Personnel P	General Weather Conditions Ambient Air Temperature (°F) 7	Facility Name: Former Ryder Truck Terminal Site ID #: 11929 Ouality Assurance	pH Sensor: Conductivity Sensor: serial no. serial no. pH =4.0 Standard pH = 7.0 Standard	pH = 10.0 Standard DO Meter Standard Standard Turbidity:	Chain of Custody Relinquished by Date/Time Received by Date/Time

Sample Post 5th Vol. 4th Vol. 3rd Vol. 2nd Vol. 1st Vol. Initial Water Temperature (°C)
Turbidity (subjective: clear, slightly cloudy, cloudy)
Dissolved Oxygen (mg/l) Volume Purged (gallons) Specific Conductivity Time (military) pH (s.u)

Remarks: Not sampled due to free product

APPENDIX C LABORATORY DATA SHEETS

Report of Analysis

Bunnell-Lammons Engineering, Inc.

6004 Ponders Court Greenville, SC 29615 Attention: Trevor Benton

Project Name: Former Ryder Truck Terminal

Project Number: UST 11929

Lot Number: TK09060

Date Completed:11/19/2018

11/19/2018 2:35 PM
Approved and released by:

Lab Director - Greenville: Lucas Odom





The electronic signature above is the equivalent of a handwritten signature.

This report shall not be reproduced, except in its entirety, without the written approval of Shealy Environmental Services, Inc.

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Bunnell-Lammons Engineering, Inc. Lot Number: TK09060

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved NELAC standards, the Shealy Environmental Services, Inc. ("Shealy") Quality Assurance Management Plan (QAMP), standard operating procedures (SOPs), and Shealy policies. Any exceptions to the NELAC standards, the QAMP, SOPs or policies are qualified on the results page or discussed below.

If you have any questions regarding this report please contact the Shealy Project Manager listed on the cover page.

VOCs by GC/MS

The following samples was diluted due to the nature of the sample matrix: TK09060-002, TK09060-014. The LOQ has been elevated to reflect the dilution.

Sample Summary Bunnell-Lammons Engineering, Inc.

Lot Number: TK09060

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	11929-MW01	Aqueous	11/07/2018 1632	11/09/2018
002	11929-MW02	Aqueous	11/08/2018 1306	11/09/2018
003	11929-MW02D	Aqueous	11/08/2018 1212	11/09/2018
004	11929-MW03R	Aqueous	11/07/2018 1533	11/09/2018
005	11929-MW03R Dup	Aqueous	11/07/2018 1535	11/09/2018
006	11929-MW04	Aqueous	11/08/2018 1425	11/09/2018
007	11929-MW05	Aqueous	11/07/2018 1600	11/09/2018
800	11929-MW08	Aqueous	11/08/2018 1024	11/09/2018
009	11929-MW09	Aqueous	11/07/2018 1444	11/09/2018
010	11929-MW10	Aqueous	11/07/2018 1522	11/09/2018
011	11929-MW11	Aqueous	11/08/2018 0946	11/09/2018
012	11929-MW12	Aqueous	11/07/2018 1453	11/09/2018
013	11929-MW13	Aqueous	11/08/2018 1400	11/09/2018
014	11929-MW14	Aqueous	11/07/2018 1719	11/09/2018
015	11929-MW16	Aqueous	11/07/2018 1636	11/09/2018
016	11929-FB-1	Aqueous	11/07/2018 1415	11/09/2018
017	11929-FB-2	Aqueous	11/08/2018 0730	11/09/2018
018	11929-TB-1	Aqueous	11/07/2018	11/09/2018

(18 samples)

Detection Summary Bunnell-Lammons Engineering, Inc.

Lot Number: TK09060

Sample	e Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	11929-MW01	Aqueous	Naphthalene	8260B	1.6	J	ug/L	5
002	11929-MW02	Aqueous	Benzene	8260B	29		ug/L	6
002	11929-MW02	Aqueous	Naphthalene	8260B	84		ug/L	6
002	11929-MW02	Aqueous	Xylenes (total)	8260B	19	J	ug/L	6
003	11929-MW02D	Aqueous	tert-Amyl alcohol (TAA)	8260B	17	J	ug/L	7
003	11929-MW02D	Aqueous	Benzene	8260B	2.6	J	ug/L	7
004	11929-MW03R	Aqueous	Benzene	8260B	10		ug/L	8
004	11929-MW03R	Aqueous	1,2-Dichloroethane	8260B	0.43	J	ug/L	8
004	11929-MW03R	Aqueous	Naphthalene	8260B	41		ug/L	8
004	11929-MW03R	Aqueous	Xylenes (total)	8260B	15		ug/L	8
004	11929-MW03R	Aqueous	1,2-Dibromoethane (EDB)	8011	0.051		ug/L	8
005	11929-MW03R Dup	Aqueous	Benzene	8260B	10		ug/L	9
005	11929-MW03R Dup	Aqueous	Naphthalene	8260B	38		ug/L	9
005	11929-MW03R Dup	Aqueous	Xylenes (total)	8260B	15		ug/L	9
005	11929-MW03R Dup	Aqueous	1,2-Dibromoethane (EDB)	8011	0.049		ug/L	9
006	11929-MW04	Aqueous	Ethylbenzene	8260B	0.71	J	ug/L	10
006	11929-MW04	Aqueous	Naphthalene	8260B	170		ug/L	10
006	11929-MW04	Aqueous	Xylenes (total)	8260B	9.8		ug/L	10
007	11929-MW05	Aqueous	Naphthalene	8260B	1.9	J	ug/L	11
012	11929-MW12	Aqueous	Methyl tertiary butyl ether	8260B	1.9	J	ug/L	16
013	11929-MW13	Aqueous	tert-Amyl alcohol (TAA)	8260B	17	J	ug/L	17
013	11929-MW13	Aqueous	Benzene	8260B	25		ug/L	17
013	11929-MW13	Aqueous	Naphthalene	8260B	150		ug/L	17
013	11929-MW13	Aqueous	tert-butyl alcohol (TBA)	8260B	13	J	ug/L	17
013	11929-MW13	Aqueous	Xylenes (total)	8260B	61		ug/L	17
014	11929-MW14	Aqueous	tert-Amyl alcohol (TAA)	8260B	230		ug/L	18
014	11929-MW14	Aqueous	Benzene	8260B	48	J	ug/L	18
014	11929-MW14	Aqueous	Ethylbenzene	8260B	320		ug/L	18
014	11929-MW14	Aqueous	Naphthalene	8260B	92		ug/L	18
015	11929-MW16	Aqueous	Naphthalene	8260B	2.2	J	ug/L	19

(30 detections)

Description: 11929-MW01

Date Sampled:11/07/2018 1632 Date Received: 11/09/2018

Laboratory ID: TK09060-001

Matrix: Aqueous

V	olatil	e Organ	ic Com	pounds	by	GC/MS
---	--------	---------	--------	--------	----	-------

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		Date Analyst 1150 BWS	Prep D	ate Bate 896			
Damanakan				nalytical	Decide	2 100	, DI	11-24-	D
Parameter (TAA)		Nun		Method	Result (Units	Run
tert-Amyl alcohol (TAA)			35-4	8260B	ND	20		ug/L	1
tert-Amyl methyl ether (TAME)		994-(8260B	ND	10	0.12	ug/L	1
Benzene			13-2	8260B	ND	5.0		ug/L	1
tert-Butyl formate (TBF)		762-		8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-0		8260B	ND	5.0		ug/L	1
Diisopropyl ether (IPE)		108-2		8260B	ND	5.0	0.10	ug/L	1
3,3-Dimethyl-1-butanol		624-9		8260B	ND	20		ug/L	1
Ethanol		64-	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	1.6	J 5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate	Q %I	Run 1 . Recovery	Acceptance Limits	!					
1,2-Dichloroethane-d4		104	70-130						
Bromofluorobenzene		95	70-130						
Toluene-d8		105	70-130						
	ED_	B & DE	BCP by	Microext	raction	1			

			by Microcki					
Run Prep Method	Analytical Method I	Dilution Anal	ysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11/14	/2018 1903 SCD	11/14/2018 0	113 89466			
-		CAS	Analytical					
Parameter		Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.021	0.021	ug/L	1
	R	Run 1 Accep	tance					
Surrogate	Q % Re	ecovery Lim	nits					
1 1 1 2-Tetrachloroethane		69 57-	137					

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% H = Out of holding time W = Reported on wet weight basis

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-MW02

Date Sampled:11/08/2018 1306 Date Received: 11/09/2018

Laboratory ID: TK09060-002 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 5		lysis Date Analyst 5/2018 1843 BWS	Prep		atch 9612			
Parameter			CAS nber	Analytical Method	Result	Q L	OC	DL	Units	Run
tert-Amyl alcohol (TAA)		75-	85-4	8260B	ND	1	00	40	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND		50	2.1	ug/L	1
Benzene		71-	43-2	8260B	29		25	2.0	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		25	10	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND		25	2.0	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND		25	2.0	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	1	00	40	ug/L	1
Ethanol		64-	17-5	8260B	ND	5	000	200	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND		25	2.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	!	5.0	2.0	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND		25	2.0	ug/L	1
Naphthalene		91-	20-3	8260B	84		25	2.0	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	1	00	40	ug/L	1
Toluene		108-	88-3	8260B	ND		25	2.0	ug/L	1
Xylenes (total)		1330-	20-7	8260B	19	J	25	2.0	ug/L	1
Surrogate	Q % F	Run 1 Recovery		tance nits						
1,2-Dichloroethane-d4		94	70-	130						
Bromofluorobenzene		98	70-	130						
Toluene-d8		104	70-	130						
	ED	B & DI	3CP	by Microexti	ractio	n				

Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch			
1 8011	8011	1	11/14/2018 1914 SCD	11/14/2018 ()113 89466			
		(CAS Analytical				,	
Parameter		Nun	nber Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4 8011	ND	0.020	0.020	ug/L	1
		Run 1	Acceptance					
Surrogate	Q % F	Recovery	Limits					
1.1.1.2-Tetrachloroethane		85	57-137					

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.

Description: 11929-MW02D

Date Sampled:11/08/2018 1212 Date Received: 11/09/2018

Laboratory ID: TK09060-003 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		rsis Date Analyst 2018 1216 BWS	Prep	Date	Batch 89612			
Parameter			CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-	85-4	8260B	17	J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-0	05-8	8260B	ND		10	0.42	ug/L	1
Benzene		71-	43-2	8260B	2.6	J	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND		20	8.0	ug/L	1
Ethanol		64-	17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene		91-	20-3	8260B	ND		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND		20	8.0	ug/L	1
Toluene		108-8	38-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)		1330-	20-7	8260B	ND		5.0	0.40	ug/L	1
Surrogate	Q %	Run 1 Recovery	Accepta Limi							
1,2-Dichloroethane-d4		104	70-1	30						
Bromofluorobenzene		100	70-1	30						
Toluene-d8		107	70-1	30						

Run Prep Method	Analytical Method	Dilution	Analysis Date Analys	t Prep Date	Batch			
1 8011	8011	1	11/14/2018 1925 SCD	11/14/2018 (0113 89466			
-		(CAS Analytical					
Parameter		Num		Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4 8011	ND	0.020	0.020	ug/L	1
		Run 1	Acceptance					
Surrogate	Q % l	Recovery	Limits					
1.1.1.2-Tetrachloroethane		83	57-137					

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank N = Recovery is out of criteria

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

P = The RPD between two GC columns exceeds 40% W = Reported on wet weight basis

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.

Description: 11929-MW03R

Date Sampled:11/07/2018 1533 Date Received: 11/09/2018

Laboratory ID: TK09060-004 Matrix: Aqueous

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	Analysis Date Analyst 11/15/2018 1242 BWS	Prep Date	Batch 89612		
Parameter		(Num	CAS Analytical ber Method	Result Q	LOQ	DL	Unit
++ A - - /T A A \		75.0	E 4 00/0D	NID	0.0		//

Volatile Organic Compounds by GC/MS

Parameter	CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene	71-43-2	8260B	10	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	0.43 J	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol	64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene	100-41-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene	91-20-3	8260B	41	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene	108-88-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)	1330-20-7	8260B	15	5.0	0.40	ug/L	1
	Pun 1 Accent	ance					

Surrogate	Q	Run 1 / % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		105	70-130

EDB & DBCP by Microextraction

			J					
Run Prep Method	Analytical Method	Dilution Anal	lysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11/14	1/2018 1935 SCD	11/14/2018 0	113 89466			
-		CAS	Analytical					
Parameter		Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	0.051	0.020	0.020	ug/L	1
		Run 1 Accep	tance					
Surrogate	Q % R	Recovery Lin	nits					

1,1,1,2-Tetrachloroethane 85 57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank

N = Recovery is out of criteria

P = The RPD between two GC columns exceeds 40% W = Reported on wet weight basis

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

Description: 11929-MW03R Dup Date Sampled:11/07/2018 1535 Date Received: 11/09/2018

Laboratory ID: TK09060-005

Matrix: Aqueous

				Vo	ıla:	tile (IJ٢	ganıc	: C	on	np	ou	nd	s k	Эy	GC/	MS	
_	_			 														_

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		sis Date Analyst 2018 1307 BWS	Prep Date	Batch 89612			
Parameter		Nun	CAS	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-4	13-2	8260B	10	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	38	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	15	5.0	0.40	ug/L	1
Surrogate		Run 1 /	Accepta Limi						
1,2-Dichloroethane-d4		101	70-1	30					
Bromofluorobenzene		97	70-1	30					
Toluene-d8		105	70-1	30					

EDB & DBCP by Microextraction

					<i>J</i>					
Run	Prep Method	Analytical Method	Dilution	Analys	is Date Analyst	Prep [Date Batch			
1	8011	8011	1	11/14/20	018 1946 SCD	11/14/20	018 0113 89466			
				CAS	Analytical					
Para	meter		Nun	nber	Method	Result	Q LOQ	DL	Units	Run
1,2-D	ibromoethane (EDB)		106-	93-4	8011	0.049	0.020	0.020	ug/L	1
			Run 1	Acceptar	nce					
Surro	ogate	Q % F	Recovery	Limits	5					
1,1,1,	,2-Tetrachloroethane		83	57-13	7					

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-MW04

Date Sampled:11/08/2018 1425 Date Received: 11/09/2018

Laboratory ID: TK09060-006 Matrix: Aqueous

Volatile (Organic Com	pounds by	GC/MS

Run Prep Method 1 5030B	Analytical Method D 8260B		,	Date Analyst 3 1333 BWS	Prep	Date	Batch 89612			
Parameter		C. Numb		nalytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85	5-4	8260B	ND		20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05	5-8	8260B	ND		10	0.42	ug/L	1
Benzene		71-43	3-2	8260B	ND		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75	5-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06	5-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20)-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95	5-3	8260B	ND		20	8.0	ug/L	1
Ethanol		64-17	7-5	8260B	ND		100	40	ug/L	1
Ethylbenzene		100-41	-4	8260B	0.71	J	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92	2-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04	1-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene		91-20)-3	8260B	170		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65	5-0	8260B	ND		20	8.0	ug/L	1
Toluene		108-88	3-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)		1330-20)-7	8260B	9.8		5.0	0.40	ug/L	1
Surrogate		un 1 A covery	cceptance Limits	9						
1,2-Dichloroethane-d4		99	70-130					_		
Bromofluorobenzene	1	100	70-130							
Toluene-d8	1	102	70-130							

FDB & DBCP by Microextraction

		<u> </u>	Dy MICIOCALI	aotion				
Run Prep Method	Analytical Method I	Dilution Analy	ysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11/14	/2018 1957 SCD	11/14/2018 0	113 89466			
-		CAS	Analytical					
Parameter		Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.020	0.020	ug/L	1
		Run 1 Accept						
Surrogate	Q % Re	ecovery Lim	its					
1 1 1 2-Tetrachloroethane	·	8/1 57-1	137			_		

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40% $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-MW05

Date Sampled:11/07/2018 1600 Date Received: 11/09/2018

Laboratory ID: TK09060-007 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	3	ysis Date Analyst /2018 1359 BWS	Prep I		tch 612		
Parameter		Num	CAS nber	Analytical Method	Result	Q LO	Q DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND	2	0.8	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND	1	0 0.42	ug/L	1
Benzene		71-4	13-2	8260B	ND	5.	0 0.40	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.	0 2.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.	0 0.40	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.	0 0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	2	0.8	ug/L	1
Ethanol		64-	17-5	8260B	ND	10	0 40	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.	0 0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.	0 0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.	0 0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	1.9	J 5.	0 0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	2	0.8	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.	0 0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.	0 0.40	ug/L	1
Surrogate	Q %I	Run 1 A	Accept Lim						
1,2-Dichloroethane-d4		99	70-1	130					
Bromofluorobenzene		99	70-1	130					
Toluene-d8		105	70-1	130					

EDB & DBCP by Microextraction

			- J					
Run Prep Method	Analytical Method	Dilution Analy	ysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11/14	/2018 2007 SCD	11/14/2018 (0113 89466			
		CAS	Analytical					
Parameter		Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.020	0.020	ug/L	1
		Run 1 Accept	ance					
Surrogate	Q %	Recovery Lim	its					
1,1,1,2-Tetrachloroethane		85 57-1	37					

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit

ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% H = Out of holding time

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.

106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

W = Reported on wet weight basis

Description: 11929-MW08

Date Sampled:11/08/2018 1024 Date Received: 11/09/2018

Laboratory ID: TK09060-008 Matrix: Aqueous

Volatile Organic	Compounds by	y GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	s Date Analyst 118 1425 BWS	Prep Date	Batch 89612			
Parameter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-	85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-	43-2	8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-	20-3	8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-	88-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-	20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate	Q % F	Run 1 Recovery	Acceptar Limits						
1,2-Dichloroethane-d4		95	70-130)			_		
Bromofluorobenzene		95	70-130)					
Toluene-d8		103	70-130)					

EDB & DBCP by Microextraction

Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch			
1 8011	8011	1	11/14/2018 2018 SCD	11/14/2018 0)113 89466			
-		С	:AS Analytical					
Parameter		Num		Result Q	LOQ	DL	Units	Rui
1,2-Dibromoethane (EDB)		106-9	3-4 8011	ND	0.019	0.019	ug/L	1
		Run 1 A	cceptance					
Surrogate	Q % F	Recovery	Limits					
1.1.1.2-Tetrachloroethane		86	57-137					

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-MW09

Date Sampled:11/07/2018 1444 Date Received: 11/09/2018

Laboratory ID: TK09060-009

Matrix: Aqueous

<u>Volatile Organic Co</u>	mpounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1		sis Date Analyst 2018 1451 BWS	Prep Date	Batch 89612			
Parameter		(Num	CAS	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-4	13-2	8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0	04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate		Run 1 /	Accepta Limi						
1,2-Dichloroethane-d4		96	70-1	30		_	_		
Bromofluorobenzene		98	70-1	30					
Toluene-d8		105	70-1	30					

FDB & DBCP by Microextraction

Run Prep Method	Analytical Method	Dilution Anal	ysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11/14	/2018 2029 SCD	11/14/2018 0	113 89466			
		CAS	Analytical					
Parameter		Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.020	0.020	ug/L	1
	F	Run 1 Accep	tance					
Surrogate	Q % R	ecovery Lim	its					
1 1 1 2-Tetrachloroethane		87 57 ₋ 1	137					

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-MW10

Date Sampled:11/07/2018 1522 Date Received: 11/09/2018

Laboratory ID: TK09060-010 Matrix: Aqueous

|--|

Run Prep Method 1 5030B	Analytical Method Dil 8260B		alysis Date Analyst 15/2018 1517 BWS	Prep Date	Batch 89612			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-43-2	8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-88-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate	Rui Q % Rec		eptance imits					
1,2-Dichloroethane-d4	9	6 70	D-130					
Bromofluorobenzene	9	5 70	0-130					
Toluene-d8	10	04 70	D-130					

EDB & DBCP by Microextraction

			<u> </u>					
Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch			
1 8011	8011	1	11/15/2018 2113 SCD	11/15/2018 1	1756 89676			
		(CAS Analytical				,	
Parameter		Nun	nber Method	Result Q	LOQ	DL	Units	Rur
1,2-Dibromoethane (EDB)		106-9	93-4 8011	ND	0.020	0.020	ug/L	1
		Run 1	Acceptance					
Surrogate	Q % F	Recovery	Limits					
1,1,1,2-Tetrachloroethane		82	57-137					

LOQ = Limit of Quantitation ND = Not detected at or above the DL

H = Out of holding time

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.

Description: 11929-MW11

Date Sampled:11/08/2018 0946 Date Received: 11/09/2018

Laboratory ID: TK09060-011 Matrix: Aqueous

	Volatile Organic Compounds by GC/MS
Dun Drop Mothod	Applytical Mothod Dilution Applysis Data Applyst Prop Data

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	s Date Analyst 18 1542 BWS	Prep Date	Batch 89612			
Parameter			CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-	85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-	05-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-	43-2	8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-	06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-	20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-	41-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1	1634-	04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-	20-3	8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-	38-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-	20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate		Run 1 Recovery	Acceptar Limits						
1,2-Dichloroethane-d4		95	70-130)				_	
Bromofluorobenzene		95	70-130)					
Toluene-d8		103	70-130)					

FDR & DRCP by Microeytraction

		D & DDCP	by Microexti	action				
Run Prep Method 1 8011	Analytical Method 8011		ysis Date Analyst /2018 2124 SCD	•	Batch 756 89676			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.019	0.019	ug/L	1
Surrogate	Q %	Run 1 Accep Recovery Lim						
1.1.1.2-Tetrachloroethane		71 57-	137					

1,1,1,2-Tetrachloroethane

57-137

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

P = The RPD between two GC columns exceeds 40%

Date Sampled:11/07/2018 1453 Date Received: 11/09/2018

Naphthalene

Xylenes (total)

Toluene

tert-butyl alcohol (TBA)

Client: Bunnell-Lammons Engineering, Inc. Description: 11929-MW12

Laboratory ID: TK09060-012 Matrix: Aqueous

Run Prep Method 1 5030B	Analytical Method 8260B		Analysis Date Analyst 11/15/2018 1608 BWS	Prep Date	Batch 89612			
Parameter		C Numl	AS Analytical ber Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	5-4 8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05	5-8 8260B	ND	10	0.42	ug/L	1
Benzene		71-43	3-2 8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75	5-4 8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06	6-2 8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20	O-3 8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95	5-3 8260B	ND	20	8.0	ug/L	1
Ethanol		64-17	7-5 8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41	1-4 8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92	2-3 8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTB	Ξ)	1634-04	4-4 8260B	1.9 J	5.0	0.40	ug/L	1

8260B

8260B

8260B

8260B

ND

ND

ND

ND

5.0

20

5.0

5.0

0.40

8.0

0.40

0.40

ug/L

ug/L

ug/L

ug/L

1

1

1

91-20-3

75-65-0

108-88-3

1330-20-7

Volatile Organic Compounds by GC/MS

Run 1 Acceptance Surrogate Q % Recovery Limits 1,2-Dichloroethane-d4 95 70-130 Bromofluorobenzene 96 70-130 Toluene-d8 104 70-130

EDB & DBCP by Microextraction

			J					
Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch			
1 8011	8011	1	11/15/2018 2134 SCD	11/15/2018 1	1756 89676			
		(CAS Analytical					
Parameter		Num	iber Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	3-4 8011	ND	0.020	0.020	ug/L	1
	I	Run 1 A	Acceptance					
Surrogate	Q % R	ecovery	Limits					
1,1,1,2-Tetrachloroethane		83	57-137					

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

DL = Detection Limit

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.

Description: 11929-MW13

Date Sampled:11/08/2018 1400 Date Received: 11/09/2018

Laboratory ID: TK09060-013

Matrix: Aqueous

		Volatil	le Orgai	nic Compol	unds b	y GC/MS
Dun	Prop Mothod	Analytical Mothod	Dilution	Analysis Dato A	nalvet	Dron Dato

Run Prep Method 1 5030B	Analytical Method Dilution 8260B 1	_	ysis Date Analyst /2018 1634 BWS	Prep	Date	Batch 89612			
Parameter	Nun	CAS	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)	75-	35-4	8260B	17	J	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)	994-0)5-8	8260B	ND		10	0.42	ug/L	1
Benzene	71	13-2	8260B	25		5.0	0.40	ug/L	1
tert-Butyl formate (TBF)	762-	75-4	8260B	ND		5.0	2.0	ug/L	1
1,2-Dichloroethane	107-0	06-2	8260B	ND		5.0	0.40	ug/L	1
Diisopropyl ether (IPE)	108-2	20-3	8260B	ND		5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol	624-9	95-3	8260B	ND		20	8.0	ug/L	1
Ethanol	64-	17-5	8260B	ND		100	40	ug/L	1
Ethylbenzene	100-4	11-4	8260B	ND		5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)	637-9	92-3	8260B	ND		1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-	04-4	8260B	ND		5.0	0.40	ug/L	1
Naphthalene	91-:	20-3	8260B	150		5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)	75-	55-0	8260B	13	J	20	8.0	ug/L	1
Toluene	108-8	38-3	8260B	ND		5.0	0.40	ug/L	1
Xylenes (total)	1330-	20-7	8260B	61		5.0	0.40	ug/L	1
Surrogate	Run 1 Q % Recovery	Accept Lim							
1,2-Dichloroethane-d4	95	70-1	30					_	
Bromofluorobenzene	97	70-1	30						
Toluene-d8	103	70-1	30						

FDB & DBCP by Microextraction

	LDI		I by wilch ockin	action				
Run Prep Method	Analytical Method	Dilution A	nalysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11	/15/2018 2145 SCD	11/15/2018 1	756 89676			
-		CAS	S Analytical					
Parameter		Numbe	r Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	4 8011	ND	0.020	0.020	ug/L	1
	F	Run 1 Acc	ceptance					
Surrogate	Q % R	ecovery l	Limits					
1 1 1 2-Tetrachloroethane	·	8/1	57 ₋ 137			_		

1,1,1,2-Tetrachloroethane

ND = Not detected at or above the DL

N = Recovery is out of criteria W = Reported on wet weight basis

P = The RPD between two GC columns exceeds 40%

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

LOQ = Limit of Quantitation

H = Out of holding time

Description: 11929-MW14

Date Sampled:11/07/2018 1719 Date Received: 11/09/2018

Laboratory ID: TK09060-014

Matrix: Aqueous

	Volatile Organic Compounds by GC/MS
Pun Pron Mothod	Analytical Mothod Dilution Analysis Data Analyst Prop Data

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 10	,	is Date Analyst 018 1909 BWS	Prep	Date	Batch 89612			
Parameter		(Num	CAS nber	Analytical Method	Result	Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	230		200	80	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND		100	4.2	ug/L	1
Benzene		71-4	13-2	8260B	48	J	50	4.0	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND		50	20	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND		50	4.0	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND		50	4.0	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND		200	80	ug/L	1
Ethanol		64-1	17-5	8260B	ND		1000	400	ug/L	1
Ethylbenzene		100-4	11-4	8260B	320		50	4.0	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND		10	4.0	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	8260B	ND		50	4.0	ug/L	1
Naphthalene		91-2	20-3	8260B	92		50	4.0	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND		200	80	ug/L	1
Toluene		108-8	38-3	8260B	ND		50	4.0	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND		50	4.0	ug/L	1
Surrogate		Run 1 A	Acceptar Limits							
1,2-Dichloroethane-d4		95	70-130)	_		_	_	_	
Bromofluorobenzene		98	70-130)						
Toluene-d8		103	70-130)						

EDB & DBCP by Microextraction

Analytical Method	Dilution	Analys	sis Date Analyst	Prep Date	Batch			
8011	1	11/15/2	018 2156 SCD	11/15/2018 1	756 89676			
	(CAS	Analytical					
	Nun	nber	Method	Result Q	LOQ	DL	Units	Run
	106-9	93-4	8011	ND	0.020	0.020	ug/L	1
I	Run 1	Accepta	nce					
Q % R	ecovery	Limit	S					
	110	57-13	37					
	8011 I	8011 1 Nun 106-4 Run 1 Q % Recovery	8011 1 11/15/2 CAS Number 106-93-4 Run 1 Accepta Q % Recovery Limit	8011 1 11/15/2018 2156 SCD CAS Analytical Number Method 106-93-4 8011 Run 1 Acceptance Q % Recovery Limits	8011 1 11/15/2018 2156 SCD 11/15/2018 1 CAS Analytical Number Method Result Q 106-93-4 8011 ND Run 1 Acceptance Q % Recovery Limits	8011 1 11/15/2018 2156 SCD 11/15/2018 1756 89676 CAS Analytical Number Method Result Q LOQ 106-93-4 8011 ND 0.020 Run 1 Acceptance Q % Recovery Limits	8011 1 11/15/2018 2156 SCD 11/15/2018 1756 89676 CAS Analytical Number Method Result Q LOQ DL 106-93-4 8011 ND 0.020 0.020 Run 1 Acceptance Q % Recovery Limits	8011 1 11/15/2018 2156 SCD 11/15/2018 1756 89676 CAS Analytical Number Method Result Q LOQ DL Units 106-93-4 8011 ND 0.020 0.020 ug/L Run 1 Acceptance Q % Recovery Limits

LOQ = Limit of Quantitation ND = Not detected at or above the DL

H = Out of holding time

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria W = Reported on wet weight basis $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-MW16

Date Sampled:11/07/2018 1636 Date Received: 11/09/2018

Laboratory ID: TK09060-015 Matrix: Aqueous

Volatile Organic Compounds	by GC/MS	
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Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	sis Date Analyst 2018 1700 BWS	Prep		atch 1612		
Parameter			CAS nber	Analytical Method	Result	Q LC	OQ D	L Units	s Run
tert-Amyl alcohol (TAA)		75-	35-4	8260B	ND	:	20 8	3.0 ug/L	. 1
tert-Amyl methyl ether (TAME)		994-0	05-8	8260B	ND		10 0.4	42 ug/L	. 1
Benzene		71-	43-2	8260B	ND	5	.0 0.4	40 ug/L	. 1
tert-Butyl formate (TBF)		762-	75-4	8260B	ND	5	.0 2	2.0 ug/L	. 1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5	.0 0.4	40 ug/L	. 1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5	.0 0.4	40 ug/L	. 1
3,3-Dimethyl-1-butanol		624-	95-3	8260B	ND	:	20 8	3.0 ug/L	. 1
Ethanol		64-	17-5	8260B	ND	10	00 4	40 ug/L	. 1
Ethylbenzene		100-	41-4	8260B	ND	5	.0 0.4	40 ug/L	. 1
Ethyl-tert-butyl ether (ETBE)		637-	92-3	8260B	ND	1	.0 0.4	40 ug/L	. 1
Methyl tertiary butyl ether (MTBE)		1634-	04-4	8260B	ND	5	.0 0.4	40 ug/L	. 1
Naphthalene		91-	20-3	8260B	2.2	J 5	.0 0.4	40 ug/L	1
tert-butyl alcohol (TBA)		75-	65-0	8260B	ND		20 8	3.0 ug/L	. 1
Toluene		108-8	38-3	8260B	ND	5	.0 0.4	40 ug/L	. 1
Xylenes (total)		1330-	20-7	8260B	ND	5	.0 0.4	40 ug/L	. 1
Surrogate	Q % F	Run 1 Recovery	Accepta Limi						
1,2-Dichloroethane-d4	_	95	70-1	30					
Bromofluorobenzene		97	70-1	30					
Toluene-d8		104	70-1	30					

FDB & DBCP by Microextraction

			by Microcki					
Run Prep Method	Analytical Method	Dilution Anal	ysis Date Analyst	Prep Date	Batch			
1 8011	8011	1 11/15	/2018 2207 SCD	11/15/2018 1	756 89676			
		CAS	Analytical					
Parameter		Number	Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-93-4	8011	ND	0.020	0.020	ug/L	1
	F	Run 1 Accep	tance					
Surrogate	Q % Re	ecovery Lim	its					
1 1 1 2-Tetrachloroethane		85 57-1	137					

1,1,1,2-Tetrachloroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Description: 11929-FB-1

Date Sampled:11/07/2018 1415 Date Received: 11/09/2018

Laboratory ID: TK09060-016 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	ysis Date Analyst /2018 1146 BWS	Prep Date	Batch 89393			
Parameter		Num	CAS	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4		8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8		8260B	ND	10	0.42	ug/L	1
Benzene		71-43-2		8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-4		8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2		8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-3		8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3		8260B	ND	20	8.0	ug/L	1
Ethanol		64-17-5		8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41-4		8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3		8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-04-4		8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-20-3		8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0		8260B	ND	20	8.0	ug/L	1
Toluene		108-88-3		8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate		Run 1	Accept Lim						
1,2-Dichloroethane-d4		96	70-1	30					
Bromofluorobenzene		93	70-1	30					
Toluene-d8		103	70-1	30					

EDB & DBCP by Microextraction

Run Prep Method	Analytical Method	Dilution	Analysis Date Analyst	Prep Date	Batch			
1 8011	8011	1	11/15/2018 2217 SCD	11/15/2018 1756 89676				
		(CAS Analytical					
Parameter		Num	iber Method	Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	3-4 8011	ND	0.019	0.019	ug/L	1
		Run 1 A	Acceptance					
Surrogate	Q % F	Recovery	Limits					
1.1.1.2-Tetrachloroethane		92	57-137					

1,1,1,2-Tetrachioroethane

LOQ = Limit of Quantitation ND = Not detected at or above the DL

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

 $J = Estimated \ result < LOQ \ and \ge DL$

Shealy Environmental Services, Inc.

Client: Bunnell-Lammons Engineering, Inc.

Description: 11929-FB-2

Date Sampled:11/08/2018 0730 Date Received: 11/09/2018

Laboratory ID: TK09060-017 Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method 8260B	Dilution 1	,	is Date Analyst 018 1209 BWS	Prep Date	Batch 89393			
Parameter		(Num	CAS nber	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-8	35-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-0)5-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-4	13-2	8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-7	75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-0	06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-2	20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-9	95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-1	17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-4	11-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-9	92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)		1634-0)4-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-2	20-3	8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-6	55-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-8	38-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)		1330-2	20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate	Q % I	Run 1 A	Acceptar Limits						
1,2-Dichloroethane-d4		95	70-130)					
Bromofluorobenzene		94	70-130)					
Toluene-d8		83	70-130)					
	ED	B & DE	BCP b	y Microexti	raction				
Run Prep Method	Analytical Method			<i></i>	Prep Date	Batch			

Run Prep Method	Analytical Method	Dilution	Analysis Date Analys	t Prep Date	Batch			
1 8011	8011	1	11/15/2018 2228 SCD	11/15/2018	1756 89676			
-		(CAS Analytical					
Parameter		Num		Result Q	LOQ	DL	Units	Run
1,2-Dibromoethane (EDB)		106-9	93-4 8011	ND	0.020	0.020	ug/L	1
		Run 1	Acceptance					
Surrogate	Q %I	Recovery	Limits					
1,1,1,2-Tetrachloroethane		94	57-137					

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range DL = Detection Limit

J = Estimated result < LOQ and \geq DL

N = Recovery is out of criteria H = Out of holding time W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

Shealy Environmental Services, Inc.

Client: Bunnell-Lammons Engineering, Inc.

Description: 11929-TB-1 Date Sampled:11/07/2018 Date Received: 11/09/2018

Laboratory ID: TK09060-018

Matrix: Aqueous

Volatile Organic Compounds by GC/MS

Run Prep Method 1 5030B	Analytical Method Dilu 8260B		lysis Date Analyst 3/2018 1231 BWS	Prep Date	Batch 89393			
Parameter		CAS Number	Analytical Method	Result Q	LOQ	DL	Units	Run
tert-Amyl alcohol (TAA)		75-85-4	8260B	ND	20	8.0	ug/L	1
tert-Amyl methyl ether (TAME)		994-05-8	8260B	ND	10	0.42	ug/L	1
Benzene		71-43-2	8260B	ND	5.0	0.40	ug/L	1
tert-Butyl formate (TBF)		762-75-4	8260B	ND	5.0	2.0	ug/L	1
1,2-Dichloroethane		107-06-2	8260B	ND	5.0	0.40	ug/L	1
Diisopropyl ether (IPE)		108-20-3	8260B	ND	5.0	0.40	ug/L	1
3,3-Dimethyl-1-butanol		624-95-3	8260B	ND	20	8.0	ug/L	1
Ethanol		64-17-5	8260B	ND	100	40	ug/L	1
Ethylbenzene		100-41-4	8260B	ND	5.0	0.40	ug/L	1
Ethyl-tert-butyl ether (ETBE)		637-92-3	8260B	ND	1.0	0.40	ug/L	1
Methyl tertiary butyl ether (MTBE)	•	1634-04-4	8260B	ND	5.0	0.40	ug/L	1
Naphthalene		91-20-3	8260B	ND	5.0	0.40	ug/L	1
tert-butyl alcohol (TBA)		75-65-0	8260B	ND	20	8.0	ug/L	1
Toluene		108-88-3	8260B	ND	5.0	0.40	ug/L	1
Xylenes (total)	•	1330-20-7	8260B	ND	5.0	0.40	ug/L	1
Surrogate	Run Q % Reco		otance mits					
1,2-Dichloroethane-d4	94	70	-130	_				
Bromofluorobenzene	82	70	-130					
Toluene-d8	102	2 70	-130					

LOQ = Limit of Quantitation ND = Not detected at or above the DL B = Detected in the method blank

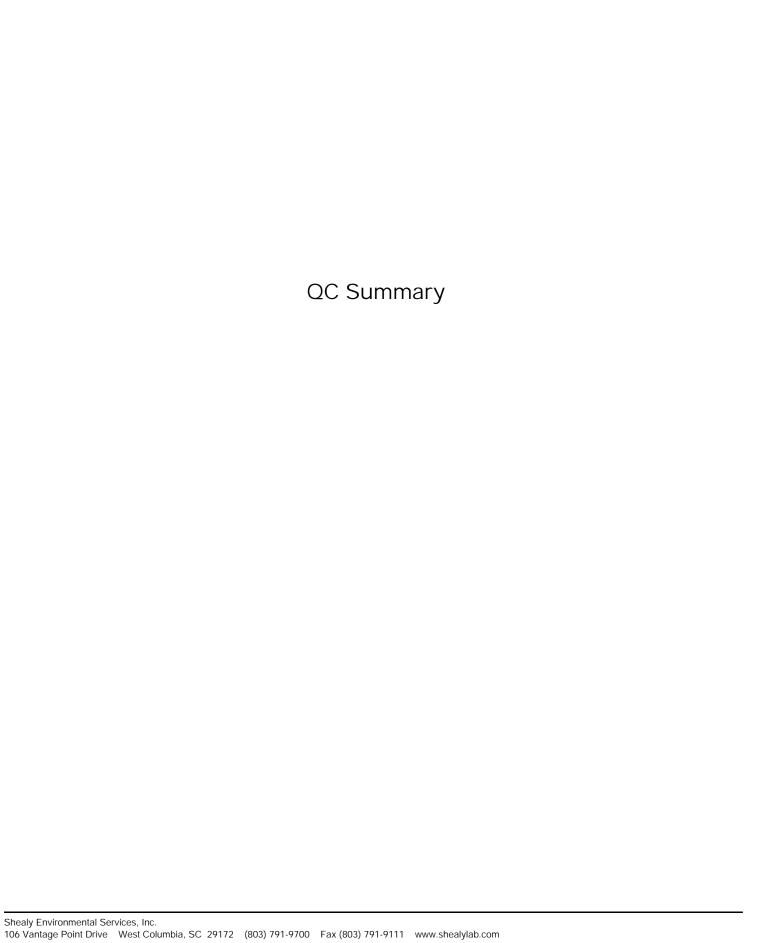
E = Quantitation of compound exceeded the calibration range DL = Detection Limit

H = Out of holding time

N = Recovery is out of criteria W = Reported on wet weight basis P = The RPD between two GC columns exceeds 40%

J = Estimated result < LOQ and \geq DL

Shealy Environmental Services, Inc.



Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ89393-001 Batch: 89393

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	8.0	ug/L	11/13/2018 1000
tert-Amyl methyl ether (TAME)	ND	1	10	0.42	ug/L	11/13/2018 1000
Benzene	ND	1	5.0	0.40	ug/L	11/13/2018 1000
tert-Butyl formate (TBF)	ND	1	5.0	2.0	ug/L	11/13/2018 1000
1,2-Dichloroethane	ND	1	5.0	0.40	ug/L	11/13/2018 1000
Diisopropyl ether (IPE)	ND	1	5.0	0.40	ug/L	11/13/2018 1000
3,3-Dimethyl-1-butanol	ND	1	20	8.0	ug/L	11/13/2018 1000
Ethanol	ND	1	100	40	ug/L	11/13/2018 1000
Ethylbenzene	ND	1	5.0	0.40	ug/L	11/13/2018 1000
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	0.40	ug/L	11/13/2018 1000
Methyl tertiary butyl ether (MTBE)	ND	1	5.0	0.40	ug/L	11/13/2018 1000
Naphthalene	ND	1	5.0	0.40	ug/L	11/13/2018 1000
tert-butyl alcohol (TBA)	ND	1	20	8.0	ug/L	11/13/2018 1000
Toluene	ND	1	5.0	0.40	ug/L	11/13/2018 1000
Xylenes (total)	ND	1	5.0	0.40	ug/L	11/13/2018 1000
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	93	70-130				
Bromofluorobenzene	95	70-130				
Toluene-d8	102	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ89393-002 Batch: 89393

Analytical Method: 8260B

Matrix: Aqueous

Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	1100	1	112	70-130	11/13/2018 0902
tert-Amyl methyl ether (TAME)	50	49	1	98	70-130	11/13/2018 0902
Benzene	50	48	1	95	70-130	11/13/2018 0902
tert-Butyl formate (TBF)	250	290	1	117	70-130	11/13/2018 0902
1,2-Dichloroethane	50	48	1	97	70-130	11/13/2018 0902
Diisopropyl ether (IPE)	50	53	1	106	70-130	11/13/2018 0902
3,3-Dimethyl-1-butanol	1000	1200	1	125	70-130	11/13/2018 0902
Ethanol	5000	5800	1	115	70-130	11/13/2018 0902
Ethylbenzene	50	46	1	92	70-130	11/13/2018 0902
Ethyl-tert-butyl ether (ETBE)	50	55	1	110	70-130	11/13/2018 0902
Methyl tertiary butyl ether (MTBE)	50	51	1	103	70-130	11/13/2018 0902
Naphthalene	50	54	1	107	70-130	11/13/2018 0902
tert-butyl alcohol (TBA)	1000	1100	1	113	70-130	11/13/2018 0902
Toluene	50	61	1	122	70-130	11/13/2018 0902
Xylenes (total)	100	92	1	92	70-130	11/13/2018 0902
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	91	70-130				
Bromofluorobenzene	98	70-130				
Toluene-d8	120	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MB

Sample ID: TQ89612-001 Batch: 89612

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
tert-Amyl alcohol (TAA)	ND	1	20	8.0	ug/L	11/15/2018 1042
tert-Amyl methyl ether (TAME)	ND	1	10	0.42	ug/L	11/15/2018 1042
Benzene	ND	1	5.0	0.40	ug/L	11/15/2018 1042
tert-Butyl formate (TBF)	ND	1	5.0	2.0	ug/L	11/15/2018 1042
1,2-Dichloroethane	ND	1	5.0	0.40	ug/L	11/15/2018 1042
Diisopropyl ether (IPE)	ND	1	5.0	0.40	ug/L	11/15/2018 1042
3,3-Dimethyl-1-butanol	ND	1	20	8.0	ug/L	11/15/2018 1042
Ethanol	ND	1	100	40	ug/L	11/15/2018 1042
Ethylbenzene	ND	1	5.0	0.40	ug/L	11/15/2018 1042
Ethyl-tert-butyl ether (ETBE)	ND	1	1.0	0.40	ug/L	11/15/2018 1042
Methyl tertiary butyl ether (MTBE)	ND	1	5.0	0.40	ug/L	11/15/2018 1042
Naphthalene	ND	1	5.0	0.40	ug/L	11/15/2018 1042
tert-butyl alcohol (TBA)	ND	1	20	8.0	ug/L	11/15/2018 1042
Toluene	ND	1	5.0	0.40	ug/L	11/15/2018 1042
Xylenes (total)	ND	1	5.0	0.40	ug/L	11/15/2018 1042
Surrogate	Q % Rec	Acceptano Limit	ce			
1,2-Dichloroethane-d4	106	70-130				
Bromofluorobenzene	95	70-130				
Toluene-d8	106	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - LCS

Sample ID: TQ89612-002 Batch: 89612

Analytical Method: 8260B

Matrix: Aqueous Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L) Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	1000	920	1	92	70-130	11/15/2018 0941
tert-Amyl methyl ether (TAME)	50	52	1	105	70-130	11/15/2018 0941
Benzene	50	46	1	92	70-130	11/15/2018 0941
tert-Butyl formate (TBF)	250	290	1	117	70-130	11/15/2018 0941
1,2-Dichloroethane	50	48	1	95	70-130	11/15/2018 0941
Diisopropyl ether (IPE)	50	53	1	105	70-130	11/15/2018 0941
3,3-Dimethyl-1-butanol	1000	880	1	88	70-130	11/15/2018 0941
Ethanol	5000	5300	1	105	70-130	11/15/2018 0941
Ethylbenzene	50	47	1	94	70-130	11/15/2018 0941
Ethyl-tert-butyl ether (ETBE)	50	52	1	105	70-130	11/15/2018 0941
Methyl tertiary butyl ether (MTBE)	50	51	1	102	70-130	11/15/2018 0941
Naphthalene	50	50	1	99	70-130	11/15/2018 0941
tert-butyl alcohol (TBA)	1000	1100	1	107	70-130	11/15/2018 0941
Toluene	50	48	1	96	70-130	11/15/2018 0941
Xylenes (total)	100	93	1	93	70-130	11/15/2018 0941
Surrogate	Q % Rec	Acceptance Limit				
1,2-Dichloroethane-d4	101	70-130				·
Bromofluorobenzene	97	70-130				
Toluene-d8	103	70-130				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MS

Sample ID: TK09060-014MS

Batch: 89612 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
tert-Amyl alcohol (TAA)	230	10000	6300	N	10	61	70-130	11/15/2018 2000
tert-Amyl methyl ether (TAME)	ND	500	390		10	79	70-130	11/15/2018 2000
Benzene	48	500	400		10	71	70-130	11/15/2018 2000
tert-Butyl formate (TBF)	ND	2500	650	N	10	26	70-130	11/15/2018 2000
1,2-Dichloroethane	ND	500	350		10	70	70-130	11/15/2018 2000
Diisopropyl ether (IPE)	ND	500	390		10	79	70-130	11/15/2018 2000
3,3-Dimethyl-1-butanol	ND	10000	6200	N	10	62	70-130	11/15/2018 2000
Ethanol	ND	50000	36000		10	72	70-130	11/15/2018 2000
Ethylbenzene	320	500	700		10	77	70-130	11/15/2018 2000
Ethyl-tert-butyl ether (ETBE)	ND	500	370		10	73	70-130	11/15/2018 2000
Methyl tertiary butyl ether (MTBE)	ND	500	380		10	76	70-130	11/15/2018 2000
Naphthalene	92	500	470		10	76	70-130	11/15/2018 2000
tert-butyl alcohol (TBA)	ND	10000	8200		10	82	70-130	11/15/2018 2000
Toluene	ND	500	380		10	76	70-130	11/15/2018 2000
Xylenes (total)	ND	1000	730		10	73	70-130	11/15/2018 2000
Surrogate	Q % Re	Ac ec	ceptance Limit					
1,2-Dichloroethane-d4	93		70-130		·			
Bromofluorobenzene	98		70-130					
Toluene-d8	103		70-130					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

Volatile Organic Compounds by GC/MS - MSD

Sample ID: TK09060-014MD

Batch: 89612 Analytical Method: 8260B Matrix: Aqueous Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
tert-Amyl alcohol (TAA)	230	10000	8600	+	10	84	30	70-130	20	11/15/2018 2026
tert-Amyl methyl ether (TAME)	ND	500	510	+	10	103	26	70-130	20	11/15/2018 2026
Benzene	48	500	500	+	10	90	21	70-130	20	11/15/2018 2026
tert-Butyl formate (TBF)	ND	2500	790	Ν	10	32	20	70-130	20	11/15/2018 2026
1,2-Dichloroethane	ND	500	450	+	10	90	25	70-130	20	11/15/2018 2026
Diisopropyl ether (IPE)	ND	500	520	+	10	103	27	70-130	20	11/15/2018 2026
3,3-Dimethyl-1-butanol	ND	10000	8200	+	10	82	28	70-130	20	11/15/2018 2026
Ethanol	ND	50000	45000	+	10	91	23	70-130	20	11/15/2018 2026
Ethylbenzene	320	500	770		10	91	9.5	70-130	20	11/15/2018 2026
Ethyl-tert-butyl ether (ETBE)	ND	500	480	+	10	96	27	70-130	20	11/15/2018 2026
Methyl tertiary butyl ether (MTBE)	ND	500	490	+	10	98	25	70-130	20	11/15/2018 2026
Naphthalene	92	500	580	+	10	98	21	70-130	20	11/15/2018 2026
tert-butyl alcohol (TBA)	ND	10000	11000	+	10	107	26	70-130	20	11/15/2018 2026
Toluene	ND	500	480	+	10	96	23	70-130	20	11/15/2018 2026
Xylenes (total)	ND	1000	910	+	10	91	22	70-130	20	11/15/2018 2026
Surrogate	Q % Re	Acce C Li	ptance imit							
1,2-Dichloroethane-d4	92	70)-130							
Bromofluorobenzene	98	70)-130							
Toluene-d8	103	70)-130							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - MB

Sample ID: TQ89466-001 Batch: 89466

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 11/14/2018 113

Parameter	Result	t	Q Dil	LOC	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND		1	0.02	0 0.020	ug/L	11/14/2018 1634
Surrogate	Q	% Rec	Acceptance Limit				
1,1,1,2-Tetrachloroethane		93	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - LCS

Sample ID: TQ89466-002

Batch: 89466

Matrix: Aqueous Prep Method: 8011

Prep Date: 11/14/2018 113

Analytical Method: 8011

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.22		1	87	60-140	11/14/2018 1644
Surrogate	Q % Rec	Acceptan Limit	ice				
1,1,1,2-Tetrachloroethane	90	57-137	,				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - MS

Sample ID: TK09060-009MS

Batch: 89466

Matrix: Aqueous Prep Method: 8011

Prep Date: 11/14/2018 113

Analytical Method: 8011

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.25	0.22		1	87	60-140	11/14/2018 2040
Surrogate	Q % Re		ptance mit					
1,1,1,2-Tetrachloroethane	85	57	7-137					

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - MSD

Sample ID: TK09060-009MD

Batch: 89466

Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011 Prep Date: 11/14/2018 113

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
1,2-Dibromoethane (EDB)	ND	0.24	0.23		1	95	6.3	60-140	20	11/14/2018 2051
Surrogate	Q % Red		eptance imit							
1,1,1,2-Tetrachloroethane	91	57	7-137							

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - MB

Sample ID: TQ89676-001 Batch: 89676

Analytical Method: 8011

Matrix: Aqueous Prep Method: 8011

Prep Date: 11/15/2018 1756

Parameter	Result	Q Dil	LOQ	DL	Units	Analysis Date
1,2-Dibromoethane (EDB)	ND	1	0.020	0.020	ug/L	11/15/2018 2052
Surrogate	Q % Rec	Acceptance Limit				
1.1.1.2-Tetrachloroethane	96	57-137		•	•	

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

EDB & DBCP by Microextraction - LCS

Sample ID: TQ89676-002 Batch: 89676 Matrix: Aqueous Prep Method: 8011

Analytical Method: 8011

Prep Date: 11/15/2018 1756

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q Di	I % Rec	% Rec Limit	Analysis Date
1,2-Dibromoethane (EDB)	0.25	0.23	1	90	60-140	11/15/2018 2103
Surrogate	Q % Rec	Acceptanc Limit	е			
1,1,1,2-Tetrachloroethane	98	57-137				

LOQ = Limit of Quantitation

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

+ = RPD is out of criteria

LOD = Limit of Detection

ND = Not detected at or above the DL

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Shealy Environmental Services, Inc.

Chain of Custody and Miscellaneous Documents

Document Number: F-AD-133 Effective Date: 08-01-2014

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); Plink-FelarCitent Copy

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SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive • West Columbia, SC 29172 Telephone No. 809-791-9700 Fax No. 809-791-9111 www.shealylab.com

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8		1 Time	1. Received by 111	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Date Ula lie	Time 1/13-7
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3. Flellingulahed by	Dare	Time	3. Received by		Date	Time
4. Relimpriational by MMM UP	8/2/11	1,4 1,45.ct	4. Laboratory received by	J	1.9.48	15 1/2 m
Note: All samples are retained for four weeks from receipt unless other arrangements are made.	d for four weeks from red gements are made.	-	AND USE ONLY Received on ice (Circle)/ Yes	No kee Pack Receipt Temp.	2. 6.4	3

Document Number: F-AD-133 Efficative Date: 08-01-2014

DISTRIBUTION: WHITE & YELLOW-Return to Indonetraly with Sample(s); PANK-Fleed/Clern Copy

EALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive • West Columbia, SC 29172 Telephone No. 803-791-9700 Fax No. 803-791-9111 www.shealylab.com

Number 90181

Quote No.	Page 2 o 2 TK09060	Remarks / Coaler LD.						- Control of the Cont		THE REAL PROPERTY OF THE PROPE	OC Requirements (Specify)	Date Time	Date Time	Dare	By Same 1 . 12 Time 1 & SU	16 000
Telephone No. / E-mail	Analysis (Alberti tist i' more space is needed)	XITX AXT-E, SOXYS SIOZ	× × × ×					7	× -> ->	× ×	sation sable Skin Inflant Poison Huperown					CAD USE ONLY
Beaten	- Malle	trix No of Consistence No of C	9						>	9	Possible Auxund Identification		2. Received by	3. Received by	d Laboratory processed	CAB USE ONLY
Report to Contact	Samtiar's Synau X TOO Protest Name	descond descond descond anomalia a anomalia anomalia anomalia anomalia anomalia anomalia a anomalia anomalia a anomalia a anomalia a a anomalia a a a a a a a a a a a a a a a a a a	2 946 GX		ž	917	1636	HIS	730 5	Lab GX	T.) Sample Olsposal - Return to Glent 💆 Disposal by Lab	Date 116 (0.2.7		Date Three	N/a for 145-4	1
	See A	P.O. No. Description Description Date:	WII 11/8/18			MLV#14 11/7/18	1/6 11/1/18	Blich	8/18/11	22	Turn Around Time Required (Prior lab approval required for expadited TAT.) Sample Disposal Standard — Hosh (Specify)	25 J. Wille			the UP	Note: All samples are retained for four weeks from receipt
Dair.	F 4 3 3	Voc T 1 929 Sample 10 / Description Sample 10 / Description (Containes for each sample may be contained on one the.)	11929 - MWII	₹:	N. S.	W.L.	11929 - MW16	FB-	FB-2	TB-1	Turn Around Time Required (Pilo	1. Relinquistied by	2. Ralinguished by	3. Heriraquished by	4. Relinquished by Moth BP	Note: All

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc. Page 1 of 1 Document Number: ME3018C-14 Effective Data: 8/2/2013 Sample Receipt Checklist (SRC) Client: Cooler Inspected by/date: ECA/ Means of receipt: SESI Client UPS FedEx Other: Yes - No 1. Were custody seals present on the cooler? Yes No NA 2. If custody seals were present, were they intact and unbroken? pH Strip ID; Chlorine Strip ID: Original temperature upon receipt / Derived (Corrected) temperature upon receipt: %Solid Snap-Cup ID: 4-91410 ___/__°C ___/__°C ___/ °C Method: Temperature Blank Against Bottles IR Gun ID: C ___ IR Gun Correction Factor: O Method of coolant: Wet Ice 🔲 Ice Packs 🔲 Dry Ice 🔲 None 3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one). 4. Is the commercial courier's packing slip attached to this form? ☐ Yes Yes Were proper custody procedures (relinquished/received) followed? Yes \square No Were sample IDs listed on the COC? No 7. Were sample IDs fixted on all sample containers? Yes ∐ No Was collection date & time listed on the COC? Yes 9. Was collection date & time listed on all sample containers? ☐ No 2 Yes ☐ No 10. Did all container label information (ID, date, time) agree with the COC? ZYes □ No 11. Were tests to be performed listed on the COC? Did all samples arrive in the proper containers for each test and/or in good condition Z Yes \square No (unbroken, lids on, etc.)? □ No Yes 13. Was adequate sample volume available? 14. Were all samples received within ½ the holding time or 48 hours, whichever comes first? ☐ Yes E No ☐ Yes -DNo 15. Were any samples containers missing/excess (circle one) samples Not fisted on COC? 16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6 mm in diameter) in ☐ Yes -FTNo any of the VOA vials? NA 17. Were all DRO/metals/nutrient samples received at a pH of < 2? Yes ☐ No NA 18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9? Yes Were all applicable NH₃/TKN/cyanide/phenol/625 (< 0.5mg/L) samples free of residual **D**NA ☐ Yes ON 🗈 chlorine? 20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) Yes □ No correctly transcribed from the COC into the comment section in LIMS? Yes - No 21. Was the quote number listed on the container label? If yes, Quote # Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.) were received incorrectly preserved and were adjusted accordingly in sample receiving with mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # Time of preservation . If more than one preservative is needed, please note in the comments below. Sample(s) were received with bubbles >6 mm in diameter. Samples(s) were received with TRC \geq 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: Date: 11-11-18 SR barcode labels applied by: Comments:

APPENDIX D CONTRACTOR CHECKLIST

Title: Programmatic QAPP Revision Number: 3.1 Revision Date: February 2016 Page: 199 of 215

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

ltem #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?			
2	Is UST Owner/Operator name, address, & phone number provided?	—		
3	Is name, address, & phone number of current property owner provided?			
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	V		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			✓
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	V		
7	Has the facility history been summarized?	V		
8	Has the regional geology and hydrogeology been described?	Ť		V
9	Are the receptor survey results provided as required?			
10	Has current use of the site and adjacent land been described?			·
11	Has the site-specific geology and hydrogeology been described?	Ť		\checkmark
12	Has the primary soil type been described?			
13	Have field screening results been described?			V
14	Has a description of the soil sample collection and preservation been detailed?			√
15	Has the field screening methodology and procedure been detailed?			V
16	Has the monitoring well installation and development dates been provided?			V
17	Has the method of well development been detailed?			V
18	Has justification been provided for the locations of the monitoring wells?			V
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			V
20	Has the groundwater sampling methodology been detailed?			
21	Have the groundwater sampling dates and groundwater measurements been provided?	V		
22	Has the purging methodology been detailed?			
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	V		
24	If free-product is present, has the thickness been provided?	-		
25	Does the report include a brief discussion of the assessment done and the results?	V		
26	Does the report include a brief discussion of the aquifer evaluation and results?			√
27	Does the report include a brief discussion of the fate & transport models used?			√

Title: Programmatic QAPP Revision Number: 3.1 Revision Date: February 2016 Page: 200 of 215

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2			
	Risk Evaluation)			
31	Have recommendations for further action been provided and explained?			
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	√		
34	Has the current and historical laboratory data been provided in tabular format?	√		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			V
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			
37	Has the topographic map been provided with all required elements? (Figure 1)	V		
38	Has the site base map been provided with all required elements? (Figure 2)	—		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	V		
40	Has the site potentiometric map been provided? (Figure 5)			
41	Have the geologic cross-sections been provided? (Figure 6)			
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			V
43	Has the site survey been provided and include all necessary elements? (Appendix A)			√
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	√		
45	Is the laboratory performing the analyses properly certified?	V		
46	Has the tax map been included with all necessary elements? (Appendix C)			—
47	Have the soil boring/field screening logs been provided? (Appendix D)			
48	Have the well completion logs, DHEC Form 2099, and DHEC Form 1903 been provided? (Appendix E)			-
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			√
50	Have the disposal manifests been provided? (Appendix G)			
51	Has a copy of the local zoning regulations been provided? (Appendix H)	·		
52	Has all fate and transport modeling been provided? (Appendix I)			
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			V
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	V		

Title: Programmatic QAPP Revision Number: 3.1 Revision Date: February 2016 Page: 201 of 215

Explanation for missing and incomplete information? Project Verifier (signature) (print name) Trevor J. Benton, P.G. 12/20/2018 Date



JAN 3 0 2019

WHEELER PROPERTIES LLC 1341 RUTHERFORD RD GREENVILLE SC 29609

Re:

Request for Property Access

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929

Release Reported February 25, 1997

Greenville County

To Whom It May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) documented a release from the UST system at the referenced site on February 25, 1997.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary to determine current extent of the petroleum plume. For this site, the required action will be funded by the State Underground Petroleum Environmental Response Bank (SUPERB) Account. The UST Management Division is requesting your permission for the contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. Please complete the attached Permission form and return it to my attention within 15 days from your date of receipt.

If you have any questions, please contact me by phone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist

Corrective Action & Quality Assurance Section

UST Management Division

Bureau of Land and Waste Management

enc:

Permission Form

cc:

Technical file (w/enc)



State Lead Option Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property OR are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit # 11929			
Facility Name: Former Ryder Term	ninal		
Facility Address: 10 Woods Lake	e Dr., Greenville, SC		
Facility Phone Number:		,	
Is facility within city limits?	(check yes/no)	☐ Yes	☐ No
Name of nearest intersecting	ng street/road/highway:		
Does public water/sewer ut	ility service this facility?	☐ Yes	☐ No
*If no, please provide a conta	ct name/number that can assis	st in the location of private wa	ter and septic tank lines:
Name:		Phone Number:	
Were USTs previously remothis facility?	oved from the ground at	☐ Yes	☐ No
*If yes, please provide the na	me/contact number of a perso	n that can assist in the location	n of the former UST(s):
Name:		Phone Number:	
Is the facility currently leas	ed to someone?	Yes	☐ No
*If yes, notify them of the pen	ding work scope, and please p	provide their name/contact nu	mber:
Name:		Phone Number:	
8	icles or other mobile structury should be moved prior to	_	
Name of Property Owner (F	Print):		
Signature of Property Own authorized representative:	er or		Date
Affiliation (if applicable)			
Signature of Witness			Date
	Contac		
Phone Numbers:	Home:	Cell:	
Email Address:			



FEB 08 2019

MR BRYAN SHANE PG MIDLANDS ENVIRONMENTAL CONSULTANTS PO BOX 854 LEXINGTON SC 29071

Re: Site Specific Work Plan Requests Groundwater Sampling Contract Solicitation #IFB-5400012906

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400012906 and the UST Management Division Quality Assurance Program Plan (QAPP) Revision 3.1, submission of Site Specific Work Plans (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 15 business days to my attention. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. Please contact me with the sampling schedule before commencing work at these facilities. A weekly update for each site is required to be submitted via email to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely,

Robert A. Dunn, Hydrogeologist Corrective Action Section UST Management Division

Bureau of Land & Waste Management

Enc: Site Information Packages

Cc: Trey Carter, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ Memo) Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM BUREAU OF LAND AND WASTE MANAGEMENT 2600 Bull Street, Columbia, South Carolina 29201 Telephone: 803-898-2544

MEMORANDUM

TO: Midlands Environmental C	onsultants
FROM: A. Looper	
RE: Site Specific Work Plan I	Request
Facility Name:	Former Ryder Terminal
Permit Number:	11929
County:	Greenville
Work To Be Completed:	Sample all monitoring wells associated with this release. Analyze for BTEXNMDCA, 8 oxys, and EDB. Only wells with screens that do not bracket the water table should be purged prior to sampling. ROE has been requested.
Total Number of Monitoring Well Samples:	19
Analysis Being Requested:	8260B, 8011
Total Number of Water Supply Well Samples:	N/A
Analysis Being Requested:	N/A





February 14, 2019

Mr. Robert Dunn, Hydrogeologist
Corrective Action & Field Support Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201



Subject:

Site-Specific Work Plan Former Ryder Terminal Greenville, South Carolina

SCDHEC Site ID Number 11929 MECI Project Number 19-6820

Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On February 12, 2019, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments please feel free to contact us at 803-808-2043.

Sincerely,

Midlands Environmental Consultants, Inc.

Ryle V. Pudney

ct Biologist Senior Scientist



Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Mr. Adam Looper		(SC	CDHEC Project Manager)
From: Jeff L. Coleman			ntractor Project Manager)
Contractor: Midlands Environmental Con	sultants, Inc. UST Contra	actor Certification Number: 009	
Facility Name: Former Ryder Terminal		UST Permit #:	11929
Facility Address: 10 Woods Lake Drive,	Greenville, SC 29607		
Responsible Party: Lloyd Auten		Phone: 864-85	9-7800
RP Address: 4925 Coach Hill Drive, Gree			
Property Owner (if different): Wheele	r Properties LLC		
Property Owner Address: 1341 Ruther		09	
Current Use of Property: Aiken Brothe	ers		
Scope of Work (Please check all th	at apply)		
☐ IGWA ☐ Tier II		Groundwater Sampling	☐ GAC
☐ Tier I ☐ Monitorin	ng Well Installation	Other	
Analyses (Please check all that app	oly)		——————————————————————————————————————
Groundwater/Surface Water:			
☑ BTEXNMDCA (8260B)	Lead	☐ BOD	
☑ Oxygenates (8260B)	■ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
☑ EDB (8011)	☐ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270D)	□ pH	☐ Other	
Drinking Water Supply Wells:			-
☐ BTEXNMDCA (524.2)	☐ Mecury (200.8 245	.1 or 245.2)	1)
Oxygenates & Ethanol (8260B)	RCRA Metals (200	.8)	
Soil:	_		
☐ BTEXNM ☐ Lead ☐ R	RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
☐ PAH ☐ C	Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	□ тос
Air:		_ ,	<u> </u>
☐ BTEXN			
Sample Collection (Estimate the nu	mber of samples of each	matrix that are expected to be co	llected.)
Soil	Water Supply We	•	1 Field Blank
Monitoring Wells	Surface Water	1_ Duplicate	1 Trip Blank
Field Screening Methodology			
Estimate number and total completed	l depth for each point, and	include their proposed locations	on the attached map.
# of shallow points proposed:	Est	mated Footage:	feet per point
# of deep points proposed:			
Field Screening Methodology:			
Permanent Monitoring Wells			
Estimate number and total completed	denth for each well and i	nclude their proposed locations	on the attached man
# of shallow wells:		Footage:	•
# of deep wells:			
# of recovery wells:			
Comments, if warranted:	Launateu	i oolaye.	ieer bei hoint
Comments, it wantained.			

UST	Permit #: 11929	_ Facility Name	Former Ryder Terminal	
	ementation Schedule (Number of Work Start-Up: 2/14/2019	=		
	ort Submittal: 4/14/2019		Field Work Completion: 3/14/2019 # of Copies Provided to Property Owners: 0	
	ifer Characterization		., ,	
-	_	ck one and prov	ovide explanation below for choice)	
Inves	stigation Derived Waste Disposa	al		
Soil:	ng Fluids:	Tons	Purge Water: 100.0	Gallons
Drillin	ıg Fluids:	Gallons	Free-Phase Product:	Gallons
For exent	t, etc.	wells to be abar	andoned/repaired, well pads/bolts/caps to replace, deta	
	al of twenty-one bolts and one well lid are nee			
	will only purge wells with water outside of th			
-Monn	oring well samples will be analyzed for	BTEXNM, 1,2-DC	CA, 8-OXY's (8260B), and EDB (8011).	
				
Yes	pliance With Annual Contractor Laboratory as indicated in ACQAF Name of Laboratory: SCDHEC Certification Number: Name of Laboratory Director:	P? (Yes/No)	If no, indicate laboratory information below.	
	Well Driller as indicated in ACQAF Name of Well Driller: SCLLR Certification Number:		If no, indicate driller information below.	
	JULIA OGIGIOGIONI ITGINISCI.	 		
None (Other variations from ACQAP. Ple	ease describe b	pelow.	
	hments Attach a copy of the relevant po	ortion of the US	GGS topographic map showing the site location.	
2.	Prepare a site base map. This is must include the following: North Arrow Location of property lines Location of buildings Previous soil sampling locations Previous monitoring well locatio Proposed soil boring locations	Proposed Legend with Streets or I Location of	accurately scaled, but does not need to be surveyed. If monitoring well locations with facility name and address, UST permit number, and highways (indicate names and numbers) of all present and former ASTs and USTs of all potential receptors	•
3.	Assessment Component Cost A	greement, SCE	DHEC Form D-3664	



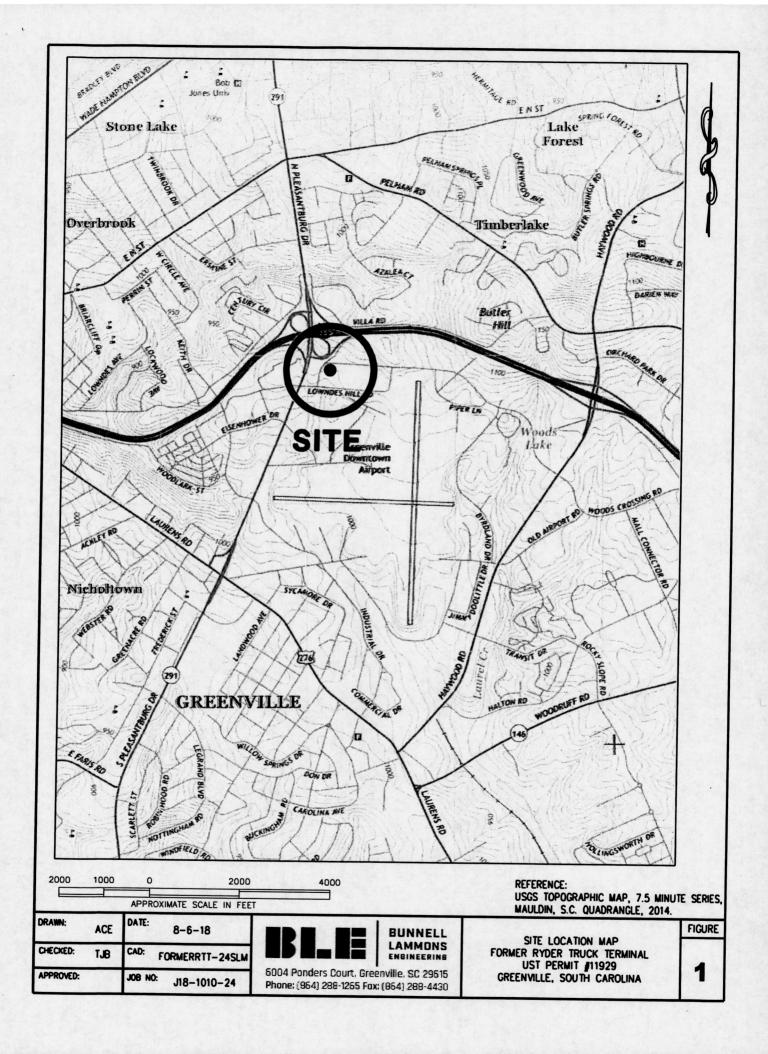
ASSESSMENT COMPONENT COST AGREEMENT **SOUTH CAROLINA**

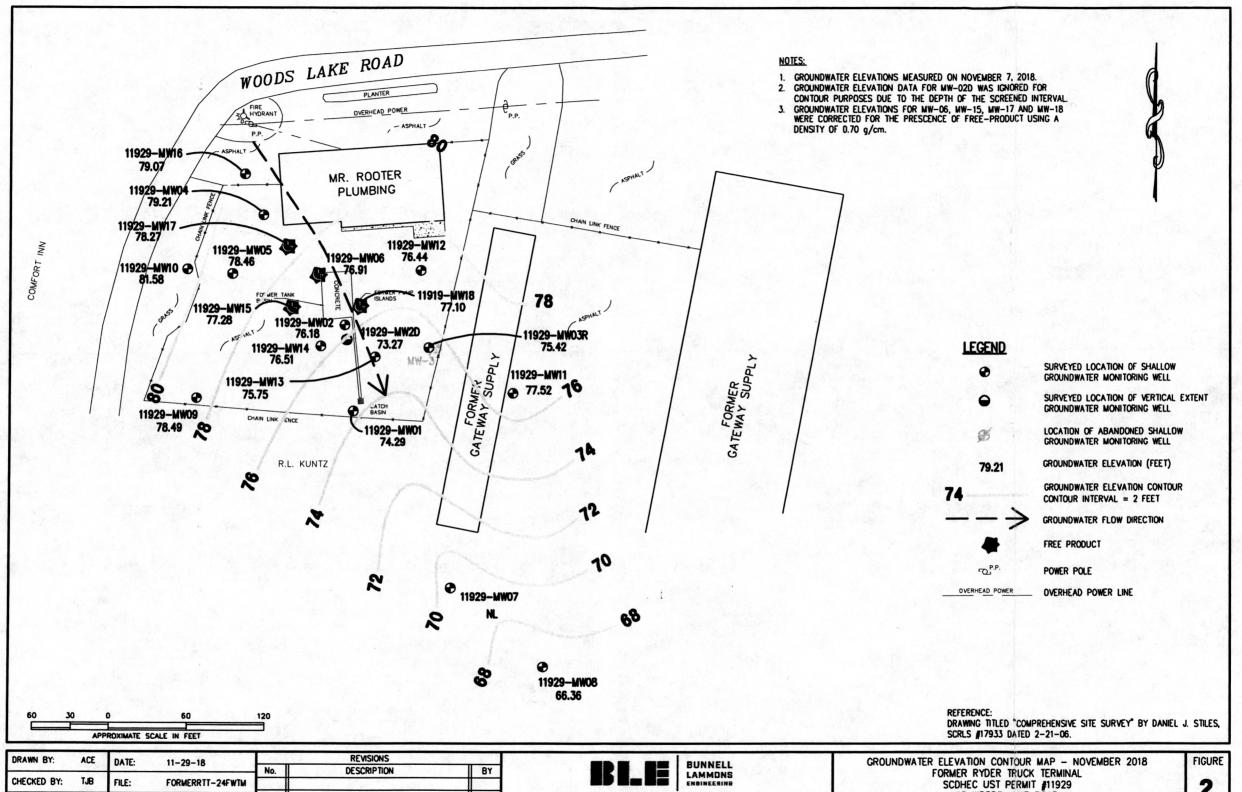
Department of Health and Environmental Control Underground Storage Tank Management Division State Underground Petroleum Environmental Response Bank Account **CONTRACT PO NUMBER 4600559329**

\$714.10

Facility Name: Former Ryder Terminal UST Permit #: 11929 **Cost Agreement #: Proposal** ITEM QUANTITY UNIT **UNIT PRICE TOTAL** 1. Plan* A1. Site Specific Work Plan 1 \$1.00 each \$1.00 B1. Tax Map \$1.00 each \$0.00 C1. QAPP Appendix B \$1.00 each \$0.00 2. A1. Receptor Survey each \$1.00 \$0.00 4. Mob/Demob **B1. Personnel** each \$1.00 \$1.00 10. Groundwater Sample Collection / Gauge Depth to Water or Product (Each) A1. Groundwater Purge per well \$36.50 \$36.50 **B1.** Air or Vapors samples \$1.00 \$0.00 C1. Water Supply samples \$18.00 \$0.00 D1. Groundwater No Purge or Duplicate 18 \$27.50 \$495.00 per well E1. Gauge Well only per well \$1.00 \$0.00 F1. Sample Below Product per well \$1.00 \$0.00 G1. Pasive Diffusion Bag each \$20.00 \$0.00 H1. Field Blank 1 each \$1.00 \$1.00 17. Disposal* (gallons or tons) AA. Disposal/Water 100 gallons \$1.00 \$100.00 **BB. Free Product** gallons \$0.05 \$0.00 Note: Rate includes costs or rental of suitable container(s) D. Site Reconnaissance 1 each \$1.00 \$1.00 18. Miscellaneous **GW Contour Map** \$25.00 \$0.00 each Isopleth Map each \$25.00 \$0.00 High-Strength Well Pad Replacement \$75.00 \$0.00 each **Data Table** each \$50.00 \$0.00 Low Flow Sampling \$0.00 per well \$55.00 25. Well Repair B1. Repair 2x2 MW Pad each \$50.00 \$0.00 C1. Repair 4x4 MW Pad each \$50.00 \$0.00 D1. Replace Well Vault each \$50.00 \$0.00 E. Replace well cover 1 each \$25.00 \$25.00 F1. Replace well cover bolts 21 \$2.60 each \$54.60 G. Replace locking well cap & lock each \$15.00 \$0.00 K1. Replace Missing Well ID Plate each \$10.00 \$0.00 TOTAL

^{*}The appropriate mobilization cost can be added to complete these tasks, as necessary





DRAWN BY:	ACE	DATE:	11-29-18	REVISIONS		BY
		ONIC.	11-23-16	No.	DESCRIPTION	BY
CHECKED BY:	TJB	FILE:	FORMERRTT-24FWTM			
APPROVED BY:		JOB NO:	J18-1010-24			

6004 Ponders Court, Greenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430

10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

2



MAR 0 5 2019



MR BRYAN SHANE PG MIDLANDS ENVIRONMENTAL CONSULTANTS PO BOX 854 LEXINGTON SC 29071

Re: Notice to Proceed-Site Specific Work Plan Approval
Groundwater Sampling Contract
Solicitation #IFB-5400012906, PO #4600686184
Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC
UST Permit #11929; MECI CA #58915; Pace CA #58916
Greenville County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400012906 and the Underground Storage Tank (UST) Management Division Quality Assurance Program Plan (QAPP), the Site-Specific Work Plan has been reviewed and approved. In accordance with the approved QAPP, a status report of the project should be provided on a weekly basis via e-mail. If any quality assurance problems arise, you must contact me within 24 hours via phone or e-mail. In addition, a discussion of the problem(s) encountered, including quality assurance problems, the actions taken, and the results must be included in the final report submitted to the UST Management Division.

Services at the site are to be performed on behalf of the site's responsible party (RP); however, payment will be made from the SUPERB Account. Please coordinate access to the facility with the property owner. DHEC grants pre-approval for transportation of virgin petroleum impacted soil and groundwater from the referenced site to a permitted treatment facility. There can be no spillage or leakage in transport. All Investigation-Derived Waste (IDW) must be properly contained and labeled prior to disposal. A copy of the disposal manifest and/or acceptance letter from the receiving facility that clearly designates the quantity received must be included with the final report. The SUPERB Account will not reimburse for transportation or treatment of soil and/or groundwater with concentrations below RBSLs.

Please note, sampling should be conducted within 15 calendar days from the date of this letter. The final report is due within three weeks from the date the site is sampled. If the site is not sampled by the specified due date or the report is not received in the specified time period, a late fee may be imposed. The final report should contain the requirements of Section III.2.15 of the bid solicitation. The final report should be submitted to Robert Dunn, the contract manager.

If you have any site-specific questions, please contact me at (803) 898-0631 or via e-mail at Looperam@dhec.sc.gov. If you have any contract specific questions, please contact Robert Dunn by phone (803) 898-0671 or email dunnra@dhec.sc.gov.

Sincerely.

Adam Looper, Hydrogeologist

Corrective Action & Quality Assurance Section

UST Management Division

Bureau of Land & Waste Management

enc: Approved Cost Agreement (both CAs)

cc: Angela Baioni, Pace Analytical Services, 9800 Kincey Ave, Ste 100, Huntersville, NC, 28078 (w/ enc) Technical File (w/ enc)

Approved Cost Agreement

58915

Facility: 11929 FORMER RYDER TERMINAL

LOOPERAM PO Number:

Task / Description Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN				
	A1 SITE SPECIFIC WORK PLAN	1.0000	\$1.000	1.00
04 MOB/DEMOB				
	B1 PERSONNEL	1.0000	\$1.000	1.00
10 SAMPLE COLLECTION				
	A1 GROUNDWATER (PURGE)	1.0000	\$36.500	36.50
	D1 GROUNDWATER NO PURGE/DUPLICATE	18.0000	\$27.500	495.00
	H1 FIELD BLANK	1.0000	\$1.000	1.00
17 DISPOSAL				
	AA WASTEWATER	100.0000	\$1,000	100.00
23 EFR				
	D SITE RECONNAISSANCE	1.0000	\$1.000	1.00
25 WELL REPAIR		*		
	E REPLACE WELL COVER & GASKET	1.0000	\$25.000	25.00
	F1 REPLACE WELL COVER BOLTS	21.0000	\$2.600	54.60
		Total Amo	Total Amount	

Approved Cost Agreement

58916

Facility: 11929 FORMER RYDER TERMINAL

LOOPERAM PO Number:

Task / Description	<u>Categories</u>	Item Description	Qty / Pct	Unit Price	Amount
11 ANALYSES	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B F1 EDB BY 8011	21.0000 20.0000	\$21.000 \$18.000	441.00 360.00
			Total Amo	unt	801.00

May 2, 2019





Mr. Robert A. Dunn, Hydrogeologist Corrective Action Section Underground Storage Management Division Bureau of Land and Waste Management South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

Subject:

Report of Groundwater Sampling

Former Ryder Terminal 10 Woods Lake Dr.

Greenville, South Carolina

SCDHEC Site ID# 11929, CA # 58915

MECI Project Number 19-6820

Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Dunn.

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

PROJECT INFORMATION

The subject site (Former Ryder Terminal) is located at 10 Woods Lake Dr., Greenville, Greenville County, South Carolina. The site currently occupied by Aiken Bros. The following table presents Underground Storage Tanks (UST's) which are associated with the subject site:

Tank#	Capacity/Product	In Use/Abandoned	Tank Status
1	20,000 Gal. Diesel	Abandoned	Removed (5/1/1989)
2	5,000 Gal. Diesel	Abandoned	Removed (5/1/1989)
3	6,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)
4	5,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)
5	550 Gal. Heating Oil	Abandoned	Removed (5/1/1989)

A release of petroleum product was reported to the South Carolina Department of Health and Environmental Control (SCDHEC) in February of 1997 and confirmed in March of 1997. The release is currently rated a Class 2BA.

The above information is based on reports and correspondence obtained from MECI field notes and SCDHEC files.

MONITORING WELL SAMPLING AND CHEMICAL ANALYSIS

On April 25, 2019 MECI personnel collected samples from sixteen (16) monitoring wells at the subject site. Three (3) monitoring wells (MW-6, MW-15 & MW-17) were gauged and determined to contain measurable free phase product. Based on the request by SCDHEC personnel, only monitoring wells that were not bracketing the screen were to be purged prior to sample collection. Fifteen (15) monitoring well was purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
									Ana	lyte Sam	pled		L
MW-1	X						Х	X	X	X	Ī	-	
MW-2	X						х	X	Х	Х			
MW-2D	X						х	х	Х	Х			
MW-3R	X						х	Х	х	Х			
MW-4	Х						х	Х	х	Х			
MW-5	X						Х	Х	Х	Х			_
MW-6			х										
MW-7	X						Х	х	х	X	·		

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes

MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dicloroethane

EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE (EPA Method 8260-B)	EDB (EPA Method 8011)	1,2 DCA (EPA Method 8260-B)	8 Oxygenates (EPA Method 8260-B)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
									Ana	alyte Sam	pled		
MW-8	X						X	х	Х	Х			
MW-9	X						Х	Х	X	X			
MW-10	Х						Х	Х	Х	Х			
MW-11	X						X	Х	Х	X			
MW-12		Х					х	X	Х	Х			
MW-13	Х						X	Х	X	X			
MW-14	Х						х	х	Х	Х			
MW-15			Х									· · · · · · · · · · · · · · · · · · ·	
MW-16	Х						Х	Х	X	Х			
MW-17			х										
MW-18	Х						х	Х	х	Х			
DUP(MW-14)			,		-		Х	Х	х	Х			
Field Blank							Х	х	х	х			
Trip Blank						T	х	Х	х	Х			

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes

MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dicloroethane EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 180.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached at the end of this report.

Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,

Midlands Environmental Consultants, Inc.

Jordan W. Floyd Staff Hydrogeologist

Attachments:

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	х		
2	Is UST Owner/Operator name, address, & phone number provided?			Х
3	Is name, address, & phone number of current property owner provided?			X
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	х		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			х
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	х		
7	Has the facility history been summarized?	Х		
8	Has the regional geology and hydrogeology been described?			х
9	Are the receptor survey results provided as required?			Х
10	Has current use of the site and adjacent land been described?			Х
11	Has the site-specific geology and hydrogeology been described?			Х
12	Has the primary soil type been described?			х
13	Have field screening results been described?			х
14	Has a description of the soil sample collection and preservation been detailed?			х
15	Has the field screening methodology and procedure been detailed?			Х
16	Has the monitoring well installation and development dates been provided?			Х
17	Has the method of well development been detailed?			х
18	Has justification been provided for the locations of the monitoring wells?			Х
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			х
20	Has the groundwater sampling methodology been detailed? See MECI SOP	Х		
21	Have the groundwater sampling dates and groundwater measurements been provided? See attached Site Activity Summary Sheet	х		
22	Has the purging methodology been detailed? See MECI SOP	Х		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? See attached Field Data Information Sheets	Х		
24	If free-product is present, has the thickness been provided? See attached Site Activity Summary Sheets	Х		
25	Does the report include a brief discussion of the assessment done and the results?			Х
26	Does the report include a brief discussion of the aquifer evaluation and results?			Х
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			Х
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			х
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			х
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			х
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)			х
34	Has the current and historical laboratory data been provided in tabular format?			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			х
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	Х		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)			х
40	Has the site potentiometric map been provided? (Figure 5)			х
41	Have the geologic cross-sections been provided? (Figure 6)			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			х
43	Has the site survey been provided and include all necessary elements? (Appendix A)			Х
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	Х		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix C)			Х
47	Have the soil boring/field screening logs been provided? (Appendix D)			х
48	Have the well completion logs and SCDHEC Form 1903 been provided? (Appendix E)			х
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)		<u> </u>	х
50	Have the disposal manifests been provided? See attached	Х		
51	Has a copy of the local zoning regulations been provided? (Appendix H)		!	Х
52	Has all fate and transport modeling been provided? (Appendix I)			Х
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			Х
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	х		

Site Activity Summary

UST Permit #:

11929

Facility Name:

Former Ryder Terminal

County:

Greenville

Field Personnel:

C. Phillips; W. Morris



231 Dooley Road, Lexington, SC 29073 (803) 808-2043 Fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-1	Y	4/25/19	14:45	21-31	***	20.76	***	2.80	10.50	No Odor; Stick-up 2.30'
MW-2	Y	4/25/19	15:00	20-30	***	17.90	***	1.76	10.00	No Odor
MW-2D	Y	4/25/19	13:55	50-55	***	21.03	***	1.56	28.00	No Odor
MW-3R	Y	4/25/19	14:30	22-32	***	20.09	***	Sheen	10.00	Odor; Sheen; Added 1 bolt
MW-4	Y	4/25/19	12:00	20-30	***	18.20	***	Sheen	10.00	Odor; Sheen
MW-5	Y	4/25/19	12:25	19-29	***	17.30	***	1.57	10.00	No Odor; Added 1 bolt
MW-6	N	4/25/19	***	19-29	19.00	19.18	0.18	***	***	Product detected; added 1 bolt
MW-7	Y	4/25/19	11:00	23-33	***	22.38	***	3.03	9.00	No Odor; Added 1 bolt
MW-8	Y	4/25/19	10:45	23-33	***	18.96	***	2.39	11.50	No Odor
MW-9	Y	4/25/19	12:55	20-30	***	17.29	***	1.63	10.50	No Odor; Added lid and 1 bolt
MW-10	Y	4/25/19	12:40	20-30	***	17.27	***	1.78	10.50	No Odor
MW-11	Y	4/25/19	11:15	20-30	***	18.66	***	3.15	9.50	No Odor
MW-12	Y	4/25/19	14:00	20-30	***	20.02	***	2.90	***	No Odor
MW-13	Y	4/25/19	14:15	23-33	***	17.89	***	2.63	12.50	No Odor; Added 1 bolt
MW-14	Υ	4/25/19	13:25	22-32	***	18.08	***	3.02	11.50	No Odor; Duplicate 1
			· 						153.50	TOTAL GALLONS PURGED

Site Activity Summary

UST Permit #:

11929

Facility Name:

Former Ryder Terminal

County:

Greenville

Field Personnel:

C. Phillips; W. Morris



231 Dooley Road, Lexington, SC 29073 (803) 808-2043 Fax: 808-2048

										(003) 000-2043 Tax: 806-2048
Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Initial Dissolved Oxygen (mg/l)	# Gals. Purged	Comments
MW-15	N	4/25/19	***	23-33	17.11	17.13	0.02	***	***	Product detected
MW-16	Y	4/25/19	11:40	24-34	***	17.58	***	1.59	13.50	No Odor; added 1 bolt
MW-17	N	4/25/19	***	25-35	18.00	18.25	0.25	***	***	Product detected
MW-18	Y	4/25/19	15:17	25-35	***	18.79	***	Sheen	13.50	Odor; sheen
DUP	***	4/25/19	13:25	未未	***	***	***	***	***	Duplicate of MW-14
Field Blank	***	4/25/19	15:25	***	***	***	***	***	***	Field Blank
Trip Blank	***	4/25/19	15:26	***	***	***	***	***	***	Trip Blank
							i			
:										
					·					
	.,				· ·				27.00	TOTAL GALLONS PURGED

Midla ★ Envi	ronmental Isultants, Inc					Mon:	itoring We	ll Purge				
I Con eld Personnel:	isultants, Inc	<u>.</u>				An	d Sampling	Data				
mpling Date(s):	4/25/19			-	Job Name Job Numbe	Kyder	lerminal 6800	<u>Ca</u> Calibra pH: Conduc	ctivity.	ta for yes or	No (Please (No No	Circle)
Well No.	Purge Sam	1	cond(i)	Temp.	DO	T		Turbidi	ed Oxygen: y: <u>Conductivi</u>	Yes y Calibrated Ev		oy QA Manager
	Volume Tim	6.46	176.5	18.1	(mg/l)	Turbidity (NTU)	Depth to (feet): product initial H ₂ O fin	Well Den	th Water Heigi		ns Purged	Notes
4W 1	2nd V 3	6.31 6.31 6.75 6.70	119.2 114.3 116.1 108.3 104.4	18.9	2.53	74.15 102.9 157.3 170.1	20.76 2.30	21-3	17.54	2.04	actual 10.5	Wo Odor
4W 2	Initial 1st 2nd 3rd 4th	6.09 5.97 4 5.94 5.90 2 5.85	103.5 96.2 92.7 88.6 95.1	9.3 19.5 19.6 19.7	1.70	63.19 95.01 135.6 163.4	17.90	20-30	0).51	1.97	10	Sichu,
MW 20	Sampling Initial 1st 2nd 3rd 4th		\$7.9 65.7 68.1 58.7	19.9 70.9 21.1 21.2 21.3	1.50 1.49 1.49 1.43 1.43	87.54 30.15 92.05 173.2 157.3	71.03		33.97	9.86 5.54	- C	16
MW3R	Sampling Initial 1st 2nd 3rd	Stren Stren Stren	56.3	21.6	i.d	10.1 97.04				2769 1.94	78	Strong
pth of Well) - (Depti	4th 4:65 Sampling h to Water = Water Heig or 1" wells "x .163 for 2	Sheen				<i>→</i>	(calculated	22-32	(1,93	171	(0	Oler Swen

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

			MOSEM
Sampling Cases	Ph/Conductance SN	1	
Case #1	15H101448	DO SN	Turbidity
Case #2	155101446	17E101302	201301183
	15E101481	14H103098	201301174
Case #3	17E100512		2013011/4
		1103400	201510251

Midlands Environmental **Monitoring Well Purge** And Sampling Data Field Personnel: ferminal Calibration Data for Calibration Successful Yes or No (Please Circle) Sampling Date(s): Job Name: Job Number; Sampling Case#: Conductivity: Nο Dissolved Oxygen: No Well No. Purge Turbidity: Conductivity Calibrated Every 3 Months by QA Manager Sample pH(i) cond(i) Temp. Volume Time DO Turbidity Depth to (feet): Well Depth Water Height (°C) (mg/l) (NTU) initial H₂O final H₂O product Gallons Purged 155 (feet) *(feet) **calc. Notes 2nd actual 20-30 3rd 18.20 4th (0 5th Sampling Initial 1st 2nd 3rd 4th 17.30 10 19-29 5th Sampling Initial 1st MW 2nd 3rd 19-29 M.00.19 4th 5th Sampling Initial 1st 2nd 3rd

4th

5th Sampling

**= One Well Volume x 5 = Gallons Purged (calculated)

22.38

23-33

53.01

70.0

One Well Volume =x.047 for 1" wells "x .163 for 2" wells, or "x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

			40
Sampling Case#	Ph/Conductance SN		
Case #1	15H101448		Turbidity
Case #2	155101448	17E101302	201201100
Case #3	15E101481		201301174
0000 #3	17E100512	A THE RESERVE AND ADDRESS OF THE PARTY OF TH	1-4.0011/41
		2,00400	201510251

^{= (}Depth of Well) - (Depth to Water = Water Height

 ${
m M}$ idlands Ênvironmental **Monitoring Well Purge** Consultants, Inc. **And Sampling Data** Field Personnel: Sampling Date(s): Job Number: Sampling Case#:

Calibration Data for

Calibration Successful Yes or No (Please Circle)

pH:

Well No.	Purge S				_					Conduc	y.	(Ves	No (Flease	
	Volume	ample Time	pH(i)	cond(i)	Temp.	DO	Turbidity			raibidity	d Oxygen: Conductiv	ty Calibrated E	No No very 3 Months	
MV &		30	6.63	54.8 50.2	Z[.] Z[.]	(mg/l) 2.39	41.03	Product Initial H	eet): O final H ₂ 0		h Water Heig *(feet)	ht Gallo	ons Purged	Notes
, , ,	3rd (4th 5th Sampling):29):47):US	6.54 6.54 6.40	45.7 45.7	21.4	723 7119 711	75.37 104.3 157.4 130.5	18.26		23-33	14.04	2.29	11.5	No
nw 9	Initial 7	45 47 44	14 14	67.5	21.2	1.63	111.9 124.14					11.44		
	3rd 4th 5th Sampling	51 53 53	2.07 2.97 2.16	54.4 57.6 57.5	21.3 21.9 21.9	1.48	157.4 140.3 74.57 20.61	17.29		20-30	12.7(7.07	10.5	No.
n w 10	1st 17: 2nd 17: 3rd 07:	30 37 34 36 36	2.12 2.10 2.07 2.07	2.4 7 20.1 21.5 2	0.7 10.4	.78 [14]	16.35 13.7 62.1					2.07		Added
	4th (2) 5th (2) Sampling Initial	40 0	25	79.6	21.5	1,64 7	02.7 14.3 02.4	17.27		20-30	2.73	(037	10.5	Nc Odw
nw 11 E	1st 2nd 8	76	.07 5		0.6 0.6 1.4 3 1.4 3	17 9 18 1 18 2 18 2	3,02 6.23 57.6 14.1	18.66		20-30	11.34	1.85	9.5	No
anth access	Sampling to Water = Water He	elght		9.7.	54.50		72.4 31.9					7.24		Ogar
epin of Well) - (Depth t Well Volume =x,047 for	wells "x .163 for	r 2" wells	or * x .66 for	d" walls	**≥(One Well Vol	lime v E = C ···	ons Purged (calcul					1	

Casing Gallons 0.047 0.163 0.653 1.469

Samuelle			
Case #1 Case #2 Case #3	15H101448 15E101481 17E100512	1411103098	201301183

Midla	nds														
Envir	ronment isultants	al					M_0	nito	ring V	Vell 1	Purge				
Field Personnel:	Sultants	h Inc.					\mathbf{A}	nd S	ampli	ing D	lata				
Sampling Date(s):	14/20	110			_	Job Name	Pula	25	·		r <u>ata</u> Ca	libration n			
1	7/63	717				Job Numbe			Thad	_	Calibrat	tion Succes	Sfull Yes	r No (Please	
Sampling Case#:	-6				_	oco Monibe	-4	68	ω_{-}	_				No (Please No	Circle)
Well No.	Purge	Sample	pH(i)								Dissolve	ad Owner	Yes	No No	
	Volume	Time		cond(i)	Temp.	DO	Turbidi		Depth to (fe	entl.	Turan a	y. Conductiv	ty Calibrated	Every 3 Months	by QA Manager
	1st	100	6.44	17.0	710	(mg/l)	(NTU) 50.33	produ				h Water Heig *(feet)	ht Gall	ons Purged	
MW 12	2nd	ut			-		20.2	Н				(1661)	**calc.	actual	Notes
, (10	3rd 4th								20.02	,	20-30				No
	5th							-	W.V	7	7, 75	_			100
	Sampling	111.50												_	lunge
	1st	4:05	26.49	179.7	20.5	2.63	<u>۲۲ ۲۹</u>	-	-						No.
Mw. 13 E	2nd 3rd	14:04	6.32		20.7 20.8	2,58	105.7						0		odor
	4th	4.12	5.27	10.3	70,9	2.34	[43.]		17.89		22-37	1011	2.46		
-	5th	¥:15	6.70	07.4	31.0	7.47	150.3	1	1601		23-37	12.11		17.5	No
	Sampling Initial	2.10	1		21.6	2.43	22.5						1731	100	216
F	1st	13:13	3.05	25.5	63	3.07	19.94	-	-				100	-	4012116
Mr 14 -	2nd (1:17	5.84	7.7	0.6	7,47	36.1	1	1 1				0		Made C W
, , [4th	13:23	3.57	6.4	20.7	2.40	(1) (1 / 5) 2 (1) (1)	1	18.08		_	1267	2.27	1.	
-	5th Sampling	13:25	5.75	19	30.5	759	96.4		10.00	1	22-32	13.92		11.5	.00
	Initial	-			20.1	(30)	151.7						1174	,,,	Odor
	1st 2nd		ETE	71 06	oduc				+				11.7		Dupl
nw 15 -	3rd	-	O. T	- / N	27	3			1 1						2401
-	4th		11/6) XII	n Ale			R_{II}	17.13						16
s	5th Sampling		1		·					2	3-33			_	\mathbb{W}
Donth atter in		ter Height										1			
e Well Volume =x.047 for	1" wells " x .1	63 for 2" well	s, or * x .66 for	4" wells, 1.4	**a 169 for 6" well-	One Well Voi	ume x 5 = G	allons P	med (calari						Ŷ
		asing	Ballons		- 3 to 0 Wells	5			- seu (calcula	ated)	F	Case #1	TvConductance SN	DO SN	
	F	2"	0.047 0.163									Case #2	15H101448 15E101481	17E101302	Turbidity 201301183
		4"	0.653 1.469								L	Case #3	17E100512	14H103098 17E103488	201301174

Miai	ands												
* Env	ands riconmental posultants, Inc.				Mor	itor	ing V	17-11 1	Purge				
Co	onsultants, Inc.				A =	-A C	ing v	vell 1	Purge				
Field Personnel:	CP, WM				AI	10 S	ampli	ing D	ata				
Sampling Date(s):	4/75/19			Job Name	Kyde	r len	minel		Ca	libration D	ata for .	No (Please	
1	1711			Job Numbe	/ /	10	70		Calibra	ion Succes	sfull Yes or	No (Dia-	- .
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ield Personnel:	CP,	WM					An	<u>a 5a</u>	<u>mpli</u>	ng D	ata				
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*= (Depth of Well) - (Depth to Water = Water Height

2nd 3rd 4th 5th

**= One Well Volume x 5 = Gallons Purged (calculated)

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1,469 for 6" wells

Cart	
Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Case #1 Case #2 Case #3	Ph/Conductance SN 15H101448 15E101481 17E100512	140103098	201301174
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Kydti Termina)			161	266 NV	1.]PT[]M										Lab S	ample Receipt Checklist:
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Re: Treatment of Purge Water

Former Ryder Terminal Greenville, South Carolina SCDHEC Site ID Number 11929 MECI Project Number 19-6820

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

- 1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
- 2. No free-product was detected in any of the purge water drums.
- 3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
- 4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
- 5. Record of usage is maintained by Contractor.
- 6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
- 7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

A total of 180.50 gallons were treated on April 26, 2019 at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

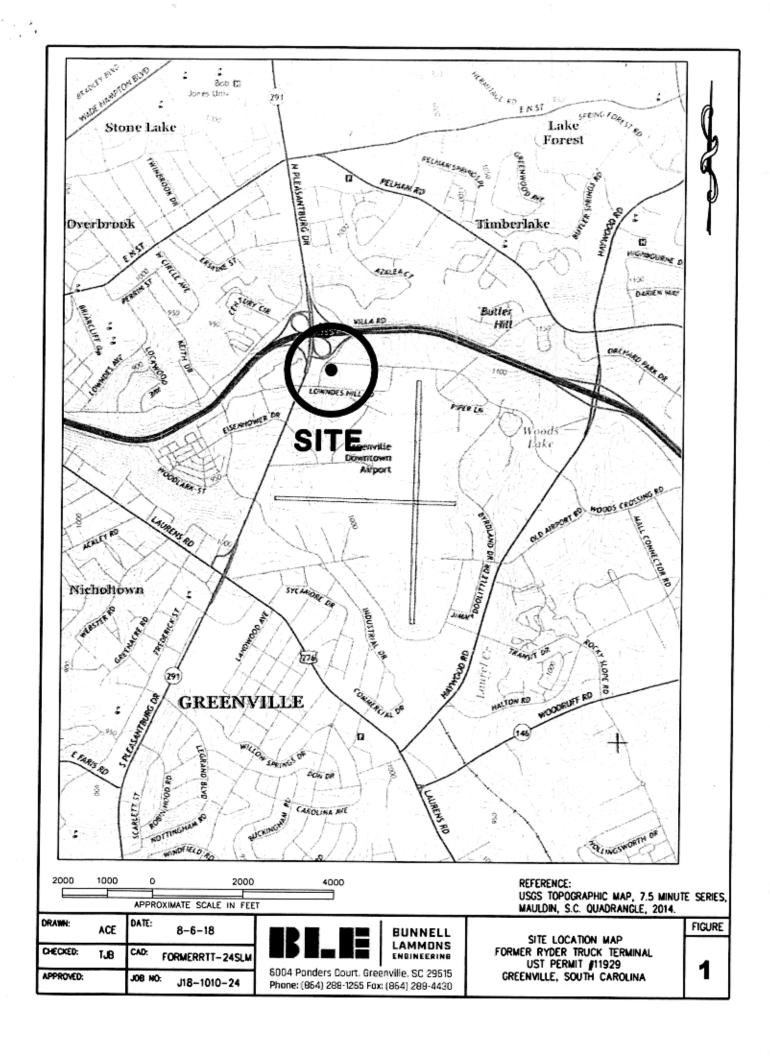
Should you have any questions or comments, please contact the undersigned.

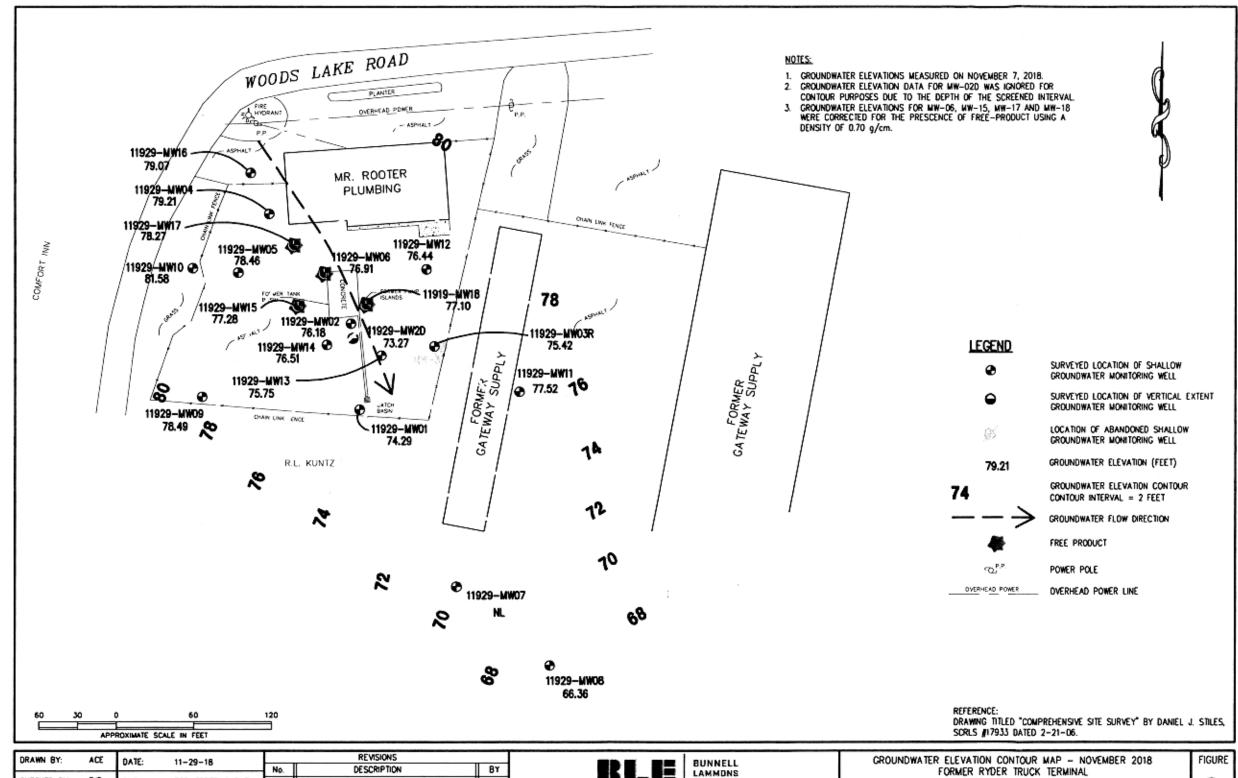
Sincerely,

Midlands Environmental Consultants, Inc.

Jordan W. Floyd

Staff Hydrogeologist





DRAWN BY:	ACE	DATE:	11-29-18		REVISIONS	
		DATE.	11-23-10	No.	DESCRIPTION	BY
CHECKED BY:	TJB	FILE:	FORMERRTT-24FWTM			
APPROVED BY:		JOB NO:	J18-1010-24			

6004 Ponders Court, Breenville, SC 29615 Phone: (864) 288-1265 Fax: (864) 288-4430

CROUNDWATER ELEVATION CONTOUR MAP - NOVEMBER 2018 FORMER RYDER TRUCK TERMINAL SCDHEC UST PERMIT #11929 10 WOODS LAKE ROAD GREENVILLE, SOUTH CAROLINA



May 07, 2019

Robert Dunn SCHDEC 2600 Bull St Columbia, SC 29201



RE: Project: Ryder Terminal 11929/58916

Pace Project No.: 92427012

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on April 26, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

angela M. Baioni

Angela Baioni angela.baioni@pacelabs.com (704)875-9092 Project Manager

Enclosures







CERTIFICATIONS

Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 Louisiana/NELAP Certification # LA170028 North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342 North Carolina Wastewater Certification #: 12 South Carolina Certification #: 99006001 Florida/NELAP Certification #: E87627 Kentucky UST Certification #: 84 Virginia/VELAP Certification #: 460221

1100 001 2010 2 1010 21 1

(704)875-9092



SAMPLE SUMMARY

Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92427012001	MW-1	Water	04/25/19 14:45	04/26/19 08:03
92427012002	MW-2	Water	04/25/19 15:00	04/26/19 08:03
92427012003	MW-2D	Water	04/25/19 13:55	04/26/19 08:03
92427012004	MW-3R	Water	04/25/19 14:30	04/26/19 08:03
92427012005	MW-4	Water	04/25/19 12:00	04/26/19 08:03
92427012006	MW-5	Water	04/25/19 12:25	04/26/19 08:03
92427012007	MW-7	Water	04/25/19 11:00	04/26/19 08:03
92427012008	MW-8	Water	04/25/19 10:45	04/26/19 08:03
92427012009	MW-9	Water	04/25/19 12:55	04/26/19 08:03
92427012010	MW-10	Water	04/25/19 12:40	04/26/19 08:03
92427012011	MW-11	Water	04/25/19 11:15	04/26/19 08:03
92427012012	MW-12	Water	04/25/19 14:00	04/26/19 08:03
92427012013	MW-13	Water	04/25/19 14:15	04/26/19 08:03
92427012014	MW-14	Water	04/25/19 13:25	04/26/19 08:03
92427012015	MW-16	Water	04/25/19 11:40	04/26/19 08:03
92427012016	MW-18	Water	04/25/19 15:17	04/26/19 08:03
92427012017	DUP-1	Water	04/25/19 13:25	04/26/19 08:03
92427012018	Field Blank	Water	04/25/19 15:25	04/26/19 08:03
92427012019	Trip Blank	Water	04/25/19 15:26	04/26/19 08:03



SAMPLE ANALYTE COUNT

Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92427012001	MW-1	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012002	MW-2	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012003	MW-2D	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012004	MW-3R	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
2427012005	MW-4	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
32427012006	MW-5	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012007	MW-7	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
92427012008	MW-8	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012009	MW-9	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012010	MW-10	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012011	MW-11	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012012	MW-12	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012013	MW-13	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	20	PASI-C
92427012014	MW-14	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012015	MW-16	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
2427012016	MW-18	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012017	DUP-1	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	GAW	20	PASI-C
92427012018	Field Blank	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	20	PASI-C
92427012019	Trip Blank	EPA 8260B	DLK	20	PASI-C



SUMMARY OF DETECTION

Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92427012001	MW-1					
EPA 8011	1,2-Dibromoethane (EDB)	0.049	ug/L	0.020	05/03/19 03:04	
92427012002	MW-2					
EPA 8011	1,2-Dibromoethane (EDB)	0.19	ug/L	0.019	05/03/19 03:22	
EPA 8260B	Benzene	21.0	ug/L	5.0	05/02/19 18:59	
EPA 8260B	Naphthalene	48.3	ug/L	5.0	05/02/19 18:59	
EPA 8260B	Xylene (Total)	24.4	ug/L	5.0	05/02/19 18:59	
EPA 8260B	o-Xylene	24.4	ug/L	5.0	05/02/19 18:59	
92427012004	MW-3R					
EPA 8011	1,2-Dibromoethane (EDB)	0.026	ug/L	0.020	05/03/19 03:59	
EPA 8260B	Benzene	6.4	ug/L	5.0	05/07/19 01:34	
EPA 8260B	Naphthalene	12.7	ug/L	5.0	05/07/19 01:34	
EPA 8260B	o-Xylene	2.6J	ug/L	5.0	05/07/19 01:34	
92427012005	MW-4					
EPA 8260B	Naphthalene	156	ug/L	5.0	05/05/19 17:00	
EPA 8260B	o-Xylene	3.0J	ug/L	5.0	05/05/19 17:00	
92427012006	MW-5					
EPA 8011	1,2-Dibromoethane (EDB)	0.12	ug/L	0.020	05/03/19 04:36	
92427012013	MW-13					
EPA 8260B	Benzene	24.5	ug/L	5.0	05/04/19 18:26	
EPA 8260B	Naphthalene	119	ug/L	5.0	05/04/19 18:26	
EPA 8260B	Xylene (Total)	53.6	ug/L	5.0		
EPA 8260B	m&p-Xylene	5.5J	ug/L	10.0	05/04/19 18:26	
EPA 8260B	o-Xylene	53.6	ug/L	5.0	05/04/19 18:26	
92427012014	MW-14					
EPA 8260B	tert-Arnyl Alcohol	79.9J	ug/L	100	05/02/19 18:05	
EPA 8260B	Benzene	4.6J	ug/L	5.0	05/02/19 18:05	
EPA 8260B	Ethylbenzene	3.2J	ug/L	5.0	05/02/19 18:05	
92427012016	MW-18					
EPA 8011	1,2-Dibromoethane (EDB)	0.68	ug/L	0.019	05/05/19 04:16	
EPA 8260B	Benzene	29.2	ug/L	5.0		
EPA 8260B	Naphthalene	31.1	ug/L	5.0	05/02/19 18:41	
EPA 8260B	Xylene (Total)	8.4	ug/L	5.0	05/02/19 18:41	
EPA 8260B	o-Xylene	8.4	ug/L	5.0	05/02/19 18:41	
92427012017	DUP-1					
EPA 8260B	Benzene	4.6J	ug/L	5.0		
EPA 8260B	Ethylbenzene	3.5J	ug/L	5.0	05/03/19 12:19	





Project:

Rvder Terminal 11929/58916

Pace Project No.:

92427012

Method:

EPA 8011

Description: 8011 GCS EDB and DBCP

Client:

SCDHEC

Date:

May 07, 2019

General Information:

18 samples were analyzed for EPA 8011. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 472557

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92426990045

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2563403)
 - 1,2-Dibromoethane (EDB)
- MSD (Lab ID: 2563404)
 - 1,2-Dibromoethane (EDB)

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:



Project: Ryder Terminal 11929/58916

Pace Project No.: 92427012

Method: EPA 8260B
Description: 8260 MSV
Client: SCDHEC
Date: May 07, 2019

General information:

19 samples were analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 472667

- L1: Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
 - · LCS (Lab ID: 2563976)
 - tert-Butyl Alcohol
- L2: Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
 - · LCS (Lab ID: 2563976)
 - tert-Butyl Formate

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 472667

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427012006

M0: Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

- MS (Lab ID: 2563977)
 - tert-Butyl Alcohol
- MSD (Lab ID: 2563978)
 - · tert-Butyl Alcohol





Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

 Method:
 EPA 8260B

 Description:
 8260 MSV

 Client:
 SCDHEC

 Date:
 May 07, 2019

QC Batch: 472667

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427012006

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- · MS (Lab ID: 2563977)
 - tert-Butyl Formate
- MSD (Lab ID: 2563978)
 - tert-Butyl Formate

QC Batch: 472900

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427029018

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 2565249)
 - tert-Butyl Alcohol
- MSD (Lab ID: 2565250)
 - tert-Butyl Alcohol

P5: The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.

- MS (Lab ID: 2565249)
 - tert-Butyl Formate
- MSD (Lab ID: 2565250)
 - tert-Butyl Formate

QC Batch: 473267

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427029010

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2567088)
 - Benzene
 - Ethylbenzene
 - · Methyl-tert-butyl ether
 - Naphthalene
 - Toluene
 - m&p-Xylene
 - o-Xylene
 - tert-Butyl Formate

R1: RPD value was outside control limits.

- MSD (Lab ID: 2567088)
 - Benzene
 - Ethylbenzene
 - Toluene
 - m&p-Xylene
 - o-Xylene
 - tert-Butyl Formate





Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

Method:

EPA 8260B

Client:

Description: 8260 MSV **SCDHEC**

Date:

May 07, 2019

QC Batch: 473421

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92427153001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 2568009)
 - Benzene
 - Ethylbenzene
 - · Methyl-tert-butyl ether
 - Naphthalene
 - Toluene
 - m&p-Xylene
 - o-Xylene

R1: RPD value was outside control limits.

- MSD (Lab ID: 2568009)
 - Benzene
 - Ethylbenzene
 - Toluene
 - · m&p-Xylene
 - o-Xylene

Additional Comments:

Analyte Comments:

QC Batch: 472667

1g: Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error.

- LCS (Lab ID: 2563976)
 - 3,3-Dimethyl-1-Butanol
 - · tert-Amyl Alcohol

2g: Recovery failure due to spiking solution degradation. The initial/continuing calibration for this compound meets criteria and indicates acceptable instrument conditions to offer quantitative results.

- LCS (Lab ID: 2563976)
 - tert-Butyl Alcohol
 - tert-Butyl Formate
- MS (Lab ID: 2563977)
 - tert-Butyl Alcohol
- MSD (Lab ID: 2563978)
 - tert-Butyl Alcohol

QC Batch: 473267

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

- MSD (Lab ID: 2567088)
 - Toluene





Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

Method: Description: 8260 MSV

EPA 8260B SCDHEC

Client: Date:

May 07, 2019

Analyte Comments:

QC Batch: 473421

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

• MSD (Lab ID: 2568009)

Toluene

This data package has been reviewed for quality and completeness and is approved for release.



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-1	Lab ID:	92427012001	Collected	I: 04/25/19	9 14:45	Received: 04/	26/19 08:03 Ma	atrix: Water	
			Report						_
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepara	ation Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	0.049	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 03:04	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/01/19 08:50	05/03/19 03:04	301-79-56	
B260 MSV	Analytica	Method: EPA	8260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 15:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 15:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 15:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 15:43	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 15:43	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 15:43	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 15:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 15:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 15:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 15:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 15:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 15:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 15:43	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 15:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 15:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 15:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 15:43	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/02/19 15:43		
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/02/19 15:43	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 15:43	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-2	Lab ID:	92427012002	Collected:	04/25/19	15:00	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	ition Metho	d: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	0.19	ug/L	0.019	0.011	1	05/01/19 08:50	05/03/19 03:22	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/03/19 03:22	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 18:59	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:59	994-05-8	
Benzene	21.0	ug/L	5.0	1.7	1		05/02/19 18:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:59	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:59	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:59	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:59	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:59	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:59	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 18:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:59	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:59	1634-04-4	
Naphthalene	48.3	ug/L	5.0	2.1	1		05/02/19 18:59	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:59	108-88-3	
(ylene (Total)	24.4	ug/L	5.0	5.0	1		05/02/19 18:59	1330-20-7	
n&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:59	179601-23-1	
p-Xylene	24.4	ug/L	5.0	2.0	1		05/02/19 18:59	95-47-6	
Surrogates		-							
I-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 18:59	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		05/02/19 18:59	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		05/02/19 18:59	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.:

Date: 05/07/2019 08:39 PM

92427012

Sample: MW-2D	Lab ID:	92427012003	Collected:	04/25/19	13:55	Received: 04/	26/19 08:03 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/03/19 03:41	106-93-4	
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/19 08:50	05/03/19 03:41	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:01	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:01	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:01	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:01	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:01	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:01	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:01	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:01	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	102	%	70-130	•	1		05/02/19 16:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/02/19 16:01	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/02/19 16:01	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-3R	Lab ID:	92427012004	Collected	: 04/25/19	14:30	Received: 04/	26/19 08:03 Ma	atrix: Water	-
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	ation Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	0.026	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 03:59	106-93-4	
1-Chloro-2-bromopropane (S)	91	%	60-140		1	05/01/19 08:50	05/03/19 03:59	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/07/19 01:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/07/19 01:34	994-05-8	
Benzene	6.4	ug/L	5.0	1.7	1		05/07/19 01:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/07/19 01:34	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/07/19 01:34	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/07/19 01:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/07/19 01:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/07/19 01:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/07/19 01:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/07/19 01:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/07/19 01:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/07/19 01:34	1634-04-4	
Naphthalene	12.7	ug/L	5.0	2.1	1		05/07/19 01:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/07/19 01:34	108-88-3	
Kylene (Total)	ND	ug/L	5.0	5.0	1		05/07/19 01:34	1330-20-7	
n&p-Xylene	ND	ug/L	10.0	4.1	1		05/07/19 01:34	179601-23-1	
o-Xylene	2.6J	ug/L	5.0	2.0	1		05/07/19 01:34	95-47-6	
Surrogates		_							
4-Bromofluorobenzene (S)	102	%	70-130		1		05/07/19 01.34	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/07/19 01:34	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		05/07/19 01:34	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-4	Lab ID:	92427012005	Collected:	04/25/19	12:00	Received: 04/	26/19 08:03 Ma	ıtrix: Water	
			Report						_
Parameters	Results -	Units	Limit	MDL	DF_	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	3011 Prepara	ition Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 04:17	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/03/19 04:17	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyi Alcohol	ND	ug/L	100	65.6	1		05/05/19 17:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/05/19 17:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/05/19 17:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/05/19 17:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/05/19 17:00	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/05/19 17:00	762-75-4	
1.2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/05/19 17:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/05/19 17:00	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/05/19 17:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/05/19 17:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/05/19 17:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/05/19 17:00	1634-04-4	
Naphthalene	156	ug/L	5.0	2.1	1		05/05/19 17:00	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/05/19 17:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/05/19 17:00	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/05/19 17:00	179601-23-1	
o-Xylene	3.0J	ug/L	5.0	2.0	1		05/05/19 17:00	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	100	%	70-130		1	•	05/05/19 17:00	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/05/19 17:00	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/05/19 17:00	2037-26-5	



Project: Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: MW-5	Lab ID:	92427012006	Collected:	04/25/19	12:25	Received: 04/	26/19 08:03 Ma	atrix: Water	
Deremetere	Doguđe	l laika	Report	MDI	DE	Dunnand	A	040.11	
Parameters	Results -	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	0.12	ug/L	0.020	0.011	1	05/01/19 08:50	05/03/19 04:36	106-93-4	
1-Chloro-2-bromopropane (S)	92	%	60-140		1	05/01/19 08:50	05/03/19 04:36	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:18	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:18	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:18	75-65-0	L1,M0
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:18	762-75-4	L2,P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:18	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:18	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:18	108-88-3	
Kylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:18	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:18	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:18	95- 4 7-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1	-	05/02/19 16:18	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/19 16:18		
Toluene-d8 (S)	107	%	70-130		1		05/02/19 16:18	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: MW-7	Lab ID:	92427012007	Collected:	04/25/19	11:00	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
3011 GCS EDB and DBCP	Analytical	Method: EPA 8	3011 Prepara	ition Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.011	1	05/02/19 07:59	05/03/19 13:52	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	05/02/19 07:59	05/03/19 13:52	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/04/19 18:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/04/19 18:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/04/19 18:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/04/19 18:07	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/04/19 18:07	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/04/19 18:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/04/19 18:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/04/19 18:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/04/19 18:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/04/19 18:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/04/19 18:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/04/19 18:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/04/19 18:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/04/19 18:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/04/19 18:07	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/04/19 18:07	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/04/19 18:07	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	102	%	70-130	***	1	•	05/04/19 18:07		
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		05/04/19 18:07		
Toluene-d8 (S)	102	%	70-130		1		05/04/19 18:07	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: MW-8	Lab ID:	92427012008	Collected:	04/25/19	10:45	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 14:12	106-93-4	
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/02/19 07:59	05/03/19 14:12	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:36	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:36	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:36	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:36	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:36	64-17 - 5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:36	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:36	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:36	179601-23-1	
o-Xylene Surrogates	ND	ug/L	5.0	2.0	1		05/02/19 16:36	95-47-6	
4-Bromofluorobenzene (S)	102 ·	%	70-130		1		05/02/19 16:36	460-00-4°	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/19 16:36	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		05/02/19 16:36	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.:

Date: 05/07/2019 08:39 PM

92427012

Sample: MW-9	Lab ID:	92427012009	Collected:	04/25/19	9 12:55	Received: 04/	26/19 08:03 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Meth	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 07:39	106-93-4	
1-Chloro-2-bromopropane (S)	96	%	60-140		1	05/02/19 07:59	05/03/19 07:39	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 16:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 16:54	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 16:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 16:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 16:54	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 16:54	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 16:54	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 16:54	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 16:54	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 16:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 16:54	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 16:54	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 16:54	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 16:54	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 16:54	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 16:54	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 16:54	95-47-6	
Surrogates						•			
4-Bromofluorobenzene (S)	103	%	70-130		1 "	•	05/02/19 16:54	460-00-4	-
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/02/19 16:54	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		05/02/19 16:54	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-10	Lab ID:	92427012010	Collected	: 04/25/19	12:40	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 07:59	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/02/19 07:59	05/03/19 07:59	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
ert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 17:12	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 17:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 17:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 17:12	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 17:12	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 17:12	762-75 -4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 17:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 17:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 17:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 17:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 17:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 17:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 17:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 17:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 17:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 17:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 17:12	95-47-6	
S <i>urrogates</i>		_							
4-Bromofluorobenzene (S)	102	%	70-130		1		05/02/19 17:12		•
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/02/19 17:12		
Toluene-d8 (S)	107	%	70-130		1		05/02/19 17:12	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: MW-11	Lab ID:	92427012011	Collected	: 04/25/19	11:15	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	3011 Prepara	ation Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 14:32	106-93-4	
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/02/19 07:59	05/03/19 14:32	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 17:29	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 17:29	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 17:29	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 17:29	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 17:29	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 17:29	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 17:29	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 17:29	108-20-3	
≣thanol	ND	ug/L	200	144	1		05/02/19 17:29	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 17:29	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 17:29	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 17:29	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 17:29	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 17:29	108-88-3	
Kylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 17:29	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 17:29	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 17:29	95-47-6	
Surrogates									
I-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 17:29		
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/19 17:29	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/02/19 17:29	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-12	Lab ID:	92427012012	Collected:	04/25/19	14:00	Received: 04/	26/19 08:03 Ma	ıtrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	ition Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 14:52	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/02/19 07:59	05/03/19 14:52	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 17:47	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 17:47	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 17:47	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 17:47	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 17:47	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 17:47	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 17:47	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 17:47	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 17:47	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 17:47	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 17:47	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 17:47	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 17:47	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 17:47	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 17:47	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 17:47	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 17:47	95-47-6	
Surrogates		•							
4-Bromofluorobenzene (S)	101	%	70-130		1		05/02/19 17:47		
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/02/19 17:47		
Toluene-d8 (S)	109	%	70-130		1		05/02/19 17:47	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: MW-13	Lab ID:	92427012013	Collected:	04/25/19	14:15	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	ition Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 08:55	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/02/19 07:59	05/03/19 08:55	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/04/19 18:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/04/19 18:26	994-05-8	
Benzene Benzene	24.5	ug/L	5.0	1.7	1		05/04/19 18:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/04/19 18:26	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/04/19 18:26	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/04/19 18:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/04/19 18:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/04/19 18:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/04/19 18:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/04/19 18:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/04/19 18:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/04/19 18:26	1634-04-4	
Naphthalene	119	ug/L	5.0	2.1	1		05/04/19 18:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/04/19 18:26	108-88-3	
Xylene (Total)	53.6	ug/L	5.0	5.0	1		05/04/19 18:26	1330-20-7	
m&p-Xylene	5.5J	ug/L	10.0	4.1	1		05/04/19 18:26	179601-23-1	
o-Xylene	53.6	ug/L	5.0	2.0	1		05/04/19 18:26	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	104	%	70-130		1		05/04/19 18:26	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		05/04/19 18:26	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		05/04/19 18:26	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-14	Lab ID:	92427012014	Collected:	04/25/19	13:25	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 09:14	106-93-4	
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/02/19 07:59	05/03/19 09:14	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyl Alcohol	79.9J	ug/L	100	65.6	1		05/02/19 18:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:05	994-05-8	
Benzene	4.6J	ug/L	5.0	1.7	1		05/02/19 18:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:05	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:05	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:05	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:05	64-17-5	
Ethylbenzene	3.2J	ug/L	5.0	1.8	1		05/02/19 18:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 18:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 18:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 18:05	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	·· % ·	70-130		1		05/02/19 18:05		
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/02/19 18:05		
Toluene-d8 (S)	104	%	70-130		1		05/02/19 18:05	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: MW-16	Lab ID:	92427012015	Collected:	04/25/19	11:40	Received: 04/	26/19 08:03 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	d: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 09:32	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	05/02/19 07:59	05/03/19 09:32	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 18:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 18:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:23	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:23	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:23	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 18:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 18:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:23	108-88-3	
(Ylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 18:23	1330-20-7	
n&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:23	179601-23-1	
p-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 18:23	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	104	%	70-130		1		05/02/19 18:23		
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		05/02/19 18:23	17060-07-0	
Toluene-d8 (S)	112	%	70-130		1		05/02/19 18:23	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sample: MW-18	Lab ID:	92427012016	Collected	I: 04/25/19	15:17	Received: 04/	26/19 08:03 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
3011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepar	ation Metho	d: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	0.68	ug/L	0.019	0.011	1	05/04/19 11:19	05/05/19 04:16	106-93-4	
1-Chloro-2-bromopropane (S)	111	%	60-140		1	05/04/19 11:19	05/05/19 04:16	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
ert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 18:41	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 18:41	994-05-8	
Benzene	29.2	ug/L	5.0	1.7	1		05/02/19 18:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 18:41	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 18:41	75-65-0	L1
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 18:41	762-75-4	L2
1.2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 18:41	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 18:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 18:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 18:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 18:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 18:41	1634-04-4	
Naphthalene	31.1	ug/L	5.0	2.1	1		05/02/19 18:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 18:41	108-88-3	
Xylene (Total)	8.4	ug/L	5.0	5.0	1		05/02/19 18:41	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 18:41	179601-23-1	
o-Xylene	8.4	ug/L	5.0	2.0	1		05/02/19 18:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130	-	1		05/02/19 18:41		
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		05/02/19 18:41		
Toluene-d8 (S)	107	%	70-130		1		05/02/19 18:41	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: DUP-1	Lab ID:	92427012017	Collected:	04/25/19	13:25	Received: 04/	26/19 08:03 Ma	atrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepara	tion Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 15:33	106-93-4	
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/02/19 07:59	05/03/19 15:33	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/03/19 12:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/03/19 12:19	994-05-8	
Benzene	4.6J	ug/L	5.0	1.7	1		05/03/19 12:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/03/19 12:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/03/19 12:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/03/19 12:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/03/19 12:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/03/19 12:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/03/19 12:19	64-17-5	
Ethylbenzene	3.5J	ug/L	5.0	1.8	1		05/03/19 12:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/03/19 12:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/03/19 12:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/03/19 12:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/03/19 12:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/03/19 12:19	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/03/19 12:19	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/03/19 12:19	95-47-6	
Surrogates		•							
4-Bromofluorobenzene (S)	97	%	70-130		1		05/03/19 12:19	460-00-4	•
1,2-Dichloroethane-d4 (S)	108	%	70-130		1		05/03/19 12:19	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/03/19 12:19	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Sample: Field Blank	Lab ID:	92427012018	Collected	: 04/25/19	15:25	Received: 04/	26/19 08:03 Ma	ıtrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	3011 Prepara	ation Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.019	0.011	1	05/02/19 07:59	05/03/19 10:28	106-93-4	
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/02/19 07:59	05/03/19 10:28	301-79-56	
8260 MSV	Analytical	Method: EPA 8	3260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 14:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 14:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 14:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 14:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 14:31	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 14:31	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 14:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 14:31	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 14:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 14:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 14:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 14:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 14:31	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 14:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 14:31	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 14:31	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 14:31	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	103	%	70-130		1		05/02/19 14:31		
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/02/19 14:31		
Toluene-d8 (S)	107	%	70-130		1		05/02/19 14:31	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

Sampie: Trip Blank	Lab ID:	92427012019	Collected:	04/25/19	15:26	Received: 04	/26/19 08:03 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical	Method: EPA 8	260B						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/02/19 14:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/02/19 14:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/02/19 14:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/02/19 14:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/02/19 14:49	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/02/19 14:49	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/02/19 14:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/02/19 14:49	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/02/19 14:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/02/19 14:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/02/19 14:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/02/19 14:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/02/19 14:49	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/02/19 14:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/02/19 14:49	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		05/02/19 14:49	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		05/02/19 14:49	95-47-6	
Surrogates		_							
4-Bromofluorobenzene (S)	99	%	70-130		1		05/02/19 14:49	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/02/19 14:49	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/02/19 14:49	2037-26-5	



Project:

Ryder Terminal 11929/58916

Pace Project No.:

QC Batch:

472667

92427012

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

8260 MSV SC

Associated Lab Samples:

 $92427012001, \, 92427012002, \, 92427012003, \, 92427012006, \, 92427012008, \, 92427012009, \, 92427012010, \, 92427012000, \, 924270012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 92427012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270012000, \, 924270$ 92427012011, 92427012012, 92427012014, 92427012015, 92427012016, 92427012018, 92427012019

METHOD BLANK: 2563975

Matrix: Water

Associated Lab Samples:

92427012001, 92427012002, 92427012003, 92427012006, 92427012008, 92427012009, 92427012010,

92427012011, 92427012012, 92427012014, 92427012015, 92427012016, 92427012018, 92427012019

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/02/19 14:13	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/02/19 14:13	
Benzene	ug/L	ND	5.0	1.7	05/02/19 14:13	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/02/19 14:13	
Ethanol	ug/L	ND	200	144	05/02/19 14:13	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/02/19 14:13	
Ethylbenzene	ug/L	ND	5.0	1.8	05/02/19 14:13	
n&p-Xylene	ug/L	ND	10.0	4.1	05/02/19 14:13	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/02/19 14:13	
Naphthalene	ug/L	ND	5.0	2.1	05/02/19 14:13	
Xylene	ug/L	ND	5.0	2.0	05/02/19 14:13	
ert-Amyl Alcohol	ug/L	ND	100	65.6	05/02/19 14:13	
ert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/02/19 14:13	
ert-Butyl Alcohol	ug/L	ND	100	91.0	05/02/19 14:13	
ert-Butyl Formate	ug/L	ND	50.0	24.1	05/02/19 14:13	
Toluene	ug/L	ND	5.0	2.0	05/02/19 14:13	
Kylene (Total)	ug/L	ND	5.0	5.0	05/02/19 14:13	
1,2-Dichloroethane-d4 (S)	%	94	70-130		05/02/19 14:13	
4-Bromofluorobenzene (S)	%	100	70-130		05/02/19 14:13	
Toluene-d8 (S)	%	108	70-130		05/02/19 14:13	

LABORATORY CONTROL SAMPLE:	2563976					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	899	90	70-130 °	lg
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	53.8	108	70-130	
Ethanol	ug/L	2000	1700	85	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	51.8	104	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	55.0	110	70-130	
Naphthalene	ug/L	50	52.4	105	70-130	
o-Xylene	ug/L	50	51.4	103	70-130	
tert-Amyl Alcohol	ug/L	1000	956	96	70-130	1g
tert-Amylmethyl ether	ug/L	100	113	113	70-130	
tert-Butyl Alcohol	ug/L	500	715	143	70-130	2g,L1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

ABORATORY CONTROL SAMPLE:	2563976	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
rt-Butyl Formate	ug/L	400	ND	5	70-130	2g,L2
luene	ug/L	50	49.2	98	70-130)
ene (Total)	ug/L	150	154	102	70-130)
Dichloroethane-d4 (S)	%			98	70-130)
romofluorobenzene (S)	%			100	70-130)
uene-d8 (S)	%			96	70-130)

MATRIX SPIKE & MATRIX SI	PIKE DUPLI	CATE: 2563	977		2563978							
			MS	MSD								
	9	2427012006	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	20.5	21.9	103	109	70-130	6	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	461	474	115	119	70-130	3	30	
Benzene	ug/L	ND	20	20	21.4	23.6	107	118	70-130	10	30	
Diisopropyl ether	ug/L	ND	20	20	20.0	21.3	100	107	70-130	6	30	
Ethanol	ug/L	ND	800	800	654	698	82	87	70-130	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	41.4	44.2	104	110	70-130	6	30	
Ethylbenzene	ug/L	ND	20	20	22.9	23.9	115	120	70-130	4	30	
m&p-Xylene	ug/L	ND	40	40	46.0	49.2	115	123	70-130	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	21.7	23.1	108	116	70-130	6	30	
Naphthalene	ug/L	ND	20	20	22.3	23.4	111	117	70-130	5	30	
o-Xylene	ug/L	ND	20	20	23.0	24.7	115	124	70-130	7	30	
tert-Amyl Alcohol	ug/L	ND	400	400	404	428	101	107	70-130	6	30	
tert-Amylmethyl ether	ug/L	- ND	. 40	40	44.5	48.6	111	122	70-130	9	<i>≟</i> 30.	. :
tert-Butyl Alcohol	ug/L	ND	200	200	301	313	151	156	70-130	4	30	2g,M0
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	20	20	21.4	23.2	107	116	70-130	8	30	
Xylene (Total)	ug/L	ND	60	60	69.0	73.9	115	123	70-130	7	30	
1,2-Dichloroethane-d4 (S)	%						98	99	70-130			
4-Bromofluorobenzene (S)	%						99	97	70-130			
Toluene-d8 (S)	%						100	101	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

QC Batch:

472900

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

8260 MSV SC

Associated Lab Samples:

Date: 05/07/2019 08:39 PM

92427012017

METHOD BLANK: 2565247

Associated Lab Samples: 92427012017

Matrix: Water

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/03/19 11:44	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/03/19 11:44	
Benzene	ug/L	ND	5.0	1.7	05/03/19 11:44	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/03/19 11:44	
Ethanol	ug/L	ND	200	144	05/03/19 11:44	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/03/19 11:44	
Ethylbenzene	ug/L	ND	5.0	1.8	05/03/19 11:44	
n&p-Xylene	ug/L	ND	10.0	4.1	05/03/19 11:44	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/03/19 11:44	
Naphthalene	ug/L	ND	5.0	2.1	05/03/19 11:44	
o-Xylene	ug/L	ND	5.0	2.0	05/03/19 11:44	
ert-Amyl Alcohol	ug/L	ND	100	65.6	05/03/19 11:44	
ert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/03/19 11:44	
ert-Butyl Alcohol	ug/L	ND	100	91.0	05/03/19 11:44	
ert-Butyl Formate	ug/L	ND	50.0	24.1	05/03/19 11:44	
Toluene	ug/L	ND	5.0	2.0	05/03/19 11:44	
(Yolene (Total)	ug/L	ND	5.0	5.0	05/03/19 11:44	
1,2-Dichloroethane-d4 (S)	%	105	70-130		05/03/19 11:44	
4-Bromofluorobenzene (S)	%	96	70-130		05/03/19 11:44	
Toiuene-d8 (S)	%	100	70-130		05/03/19 11:44	

ABORATORY CONTROL SAMPLE:	2565248					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	45.7	91	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	47.3	95	70-130	
Diisopropyl ether	ug/L	50	49.8	100	70-130	
Ethanol	ug/L	2000	1980	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	89.9	90	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
n&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	47.0	94	70-130	
laphthalene	ug/L	50	49.8	100	70-130	
-Xylene	ug/L	50	49.9	100	70-130	
ert-Amyl Alcohol	ug/L	1000	964	96	70-130	
ert-Amylmethyl ether	ug/L	100	99.1	99	70-130	
ert-Butyl Alcohol	ug/L	500	471	94	70-130	
ert-Butyl Formate	ug/L	400	399	100	70-130	
l'oluene	ug/L	50	49.2	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

Date: 05/07/2019 08:39 PM

LABORATORY CONTROL SAMPLE:	2565248					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			101	70-130	
l-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPL	JCATE: 2565	249		2565250	}						
		92427029018	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	19.4	18.9	97	95	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	366	395	92	99	70-130	7	30	
Benzene	ug/L	ND	20	20	19.8	19.8	99	99	70-130	0	30	
Diisopropyl ether	ug/L	ND	20	20	20.6	20.5	103	102	70-130	1	30	
Ethanol	ug/L	ND	800	800	766	784	96	98	70-130	2	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	37.7	38.0	94	95	70-130	1	30	
Ethylbenzene	ug/L	ND	20	20	20.6	20.4	103	102	70-130	1	30	
m&p-Xylene	ug/L	ND	40	40	41.8	41.1	105	103	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.6	19.1	91	94	70-130	3	30	
Naphthalene	ug/L	ND	20	20	16.3	17.9	76	84	70-130	9	30	
o-Xylene	ug/L	ND	20	20	20.6	20.2	103	101	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	400	400	387	390	97	98	70-130	1	30	
tert-Amylmethyl ether	ug/L	ND	40	40	39.8	39.2	99	98	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	271	279	135	140	70-130	3	30	M1
tert-Butyl Formate	ug/L	NĐ	160	160-	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	20	20	20.0	19.8	100	99	70-130	1	30	
Xylene (Total)	ug/L	ND	60	60	62.4	61.3	104	102	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						102	104	70-130			
4-Bromofluorobenzene (S)	%						101	99	70-130			
Toluene-d8 (S)	%						101	100	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

QC Batch:

473112

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

8260 MSV SC

Associated Lab Samples:

92427012005

METHOD BLANK: 2566122 Associated Lab Samples:

Date: 05/07/2019 08:39 PM

92427012005

Matrix: Water

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
,2-Dichloroethane	ug/L	ND	5.0	2.1	05/05/19 11:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/05/19 11:09	
Benzene	ug/L	ND	5.0	1.7	05/05/19 11:09	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/05/19 11:09	
Ethanol	ug/L	ND	200	144	05/05/19 11:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/05/19 11:09	
Ethylbenzene	ug/L	ND	5.0	1.8	05/05/19 11:09	
n&p-Xylene	ug/L	ND	10.0	4.1	05/05/19 11:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/05/19 11:09	
Naphthalene	ug/L	ND	5.0	2.1	05/05/19 11:09	
o-Xylene	ug/L	ND	5.0	2.0	05/05/19 11:09	
ert-Amyl Alcohol	ug/L	ND	100	65.6	05/05/19 11:09	
ert-Amylmethyl ether	ug/L	NĎ	10.0	3.0	05/05/19 11:09	
ert-Butyl Alcohol	ug/L	ND	100	91.0	05/05/19 11:09	
ert-Butyl Formate	ug/L	ND	50.0	24.1	05/05/19 11:09	
Toluene	ug/L	ND	5.0	2.0	05/05/19 11:09	
Kylene (Total)	ug/L	ND	5.0	5.0	05/05/19 11:09	
1,2-Dichloroethane-d4 (S)	%	120	70-130		05/05/19 11:09	
l-Bromofluorobenzene (S)	%	101	70-130		05/05/19 11:09	
Toluene-d8 (S)	%	102	70-130	•	05/05/19 11:09	

LABORATORY CONTROL SAMPLE:	2566123					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	
Benzene -	ug/L	50	39.7	79	70-130	
Diisopropyl ether	ug/L	50	57.0	114	70-130	
Ethanol	ug/L	2000	2060	103	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.5	99	70-130	
Ethylbenzene	ug/L	50	50.0	100	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	55.3	111	70-130	
Naphthalene	ug/L	50	59.1	118	70-130	
o-Xylene	ug/L	50	48.5	97	70-130	
ert-Amyl Alcohol	ug/L	1000	895	89	70-130	
ert-Amylmethyl ether	ug/L	100	88.9	89	70-130	
ert-Butyl Alcohol	ug/L	500	535	107	70-130	
ert-Butyl Formate	ug/L	400	386	97	70-130	
Toluene	ug/L	50	46.5	93	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.: 92427012

LABORATORY CONTROL SAMPLE:	2566123					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			108	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 2567	391		2567392	!						
			MS	MSD								
		92427153003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	100	100	98.7	97.4	99	97	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	2000	2000	2050	1890	103	95	70-130	8	30	
Benzene	ug/L	ND	100	100	115	115	107	108	70-130	0	30	
Diisopropyl ether	ug/L	ND	100	100	108	104	108	104	70-130	3	30	
Ethanol	ug/L	ND	4000	4000	4090	3850	102	96	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	200	200	200	195	100	98	70-130	2	30	
Ethylbenzene	ug/L	558	100	100	670	660	112	101	70-130	2	30	
m&p-Xylene	ug/L	534	200	200	738	727	102	96	70-130	2	30	
Methyl-tert-butyl ether	ug/L	ND	100	100	110	107	110	107	70-130	3	30	
Naphthalene	ug/L	644	100	100	754	732	110	88	70-130	3	30	
o-Xylene	ug/L	88.6	100	100	202	200	114	112	70-130	1	30	
tert-Amyl Alcohol	ug/L	ND	2000	2000	2130	1990	106	100	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	200	200	220	216	110	108	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	1000	1000	1010	946	101	95	70-130	6	30	
tert-Butyl Formate	ug/L	ND	800	800	781	728	98	91	70-130	7	30	
Toluene	ug/L	ND	100	100	109	110	107	108	70-130	1	30	
Xylene (Total)	ug/L	623	300	300	940	927	106	101	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						100	101	70-130			
4-Bromofluorobenzene (S)	%						98	97	70-130			
Toluene-d8 (S)	%						100	102	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

QC Batch:

473267

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

8260 MSV SC

Associated Lab Samples:

Date: 05/07/2019 08:39 PM

92427012007, 92427012013

METHOD BLANK: 2567085

Matrix: Water

Associated Lab Samples: 92427012007, 92427012013

, booodatos Lab campico. 92						
Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/04/19 12:19	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/04/19 12:19	
Benzene	ug/L	ND	5.0	1.7	05/04/19 12:19	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/04/19 12:19	
Ethanol	ug/L	ND	200	144	05/04/19 12:19	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/04/19 12:19	
Ethylbenzene	ug/L	ND	5.0	1.8	05/04/19 12:19	
m&p-Xylene	ug/L	ND	10.0	4.1	05/04/19 12:19	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/04/19 12:19	
Naphthalene	ug/L	ND	5.0	2.1	05/04/19 12:19	
o-Xylene	ug/L	ND	5.0	2.0	05/04/19 12:19	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/04/19 12:19	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/04/19 12:19	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/04/19 12:19	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/04/19 12:19	
Toluene	ug/L	ND	5.0	2.0	05/04/19 12:19	
Xylene (Total)	ug/L	ND	5.0	5.0	05/04/19 12:19	
1,2-Dichloroethane-d4 (S)	%	98	70-130		05/04/19 12:19	
4-Bromofluorobenzene (S)	%	103	70-130		05/04/19 12:19	
Toluene-d8 (S)	%	102	70-130	**	.05/04/19 12:19	

ABORATORY CONTROL SAMP	LE: 2567086					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
,2-Dichloroethane	ug/L	50	50.9	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
enzene	ug/L	50	52.7	105	70-130	
iisopropyl ether	ug/L	50	57.2	114	70-130	
thanol	ug/L	2000	2050	103	70-130	
thyl-tert-butyl ether	ug/L	100	108	108	70-130	
thylbenzene	ug/L	50	50.8	102	70-130	
&p-Xylene	ug/L	100	104	104	70-130	
lethyl-tert-butyl ether	ug/L	50	58.7	117	70-130	
aphthalene	ug/L	50	52.9	106	70-130	
-Xylene	ug/L	50	51.0	102	70-130	
ert-Arnyl Alcohol	ug/L	1000	1050	105	70-130	
ert-Amylmethyl ether	ug/L	100	110	110	70-130	
ert-Butyl Alcohol	ug/L	500	513	103	70-130	
ert-Butyl Formate	ug/L	400	463	116	70-130	
l'oluene	ug/L	50	50.2	100	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

ug/L

%

%

%

Pace Project No.:

Methyl-tert-butyl ether

tert-Amylmethyl ether

1,2-Dichloroethane-d4 (S)

4-Bromofluorobenzene (S)

Date: 05/07/2019 08:39 PM

Naphthalene

tert-Amyl Alcohol

tert-Butyl Alcohol

tert-Butyl Formate

Xylene (Total)

Toluene-d8 (S)

o-Xylene

Toluene

92427012

LABORATORY CONTROL SA	AMPLE:	2567086										
			Spike	LC	S	LCS	% Re	ec				
Parameter		Units	Conc.	Res	ult	% Rec	Limit	nits Qualifie				
Xylene (Total)		ug/L	15	50	155	103	7	0-130				
1,2-Dichloroethane-d4 (S)		%				105	5 7	0-130				
4-Bromofluorobenzene (S)		%				100) 7	0-130				
Toluene-d8 (S)		%				99	7	0-130				
MATRIX SPIKE & MATRIX SP	PIKE DUP	LICATE: 2567		MSD	2567088							
MATRIX SPIKE & MATRIX SP	PIKE DUP		MS	MSD Spike			MS	MSD	% Rec		Max	
MATRIX SPIKE & MATRIX SPI	PIKE DUP	92427029010		MSD Spike Conc.	2567088 MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Parameter		92427029010	MS Spike	Spike	MS	MSD				RPD 1	RPD	
Parameter 1,2-Dichloroethane	Units	92427029010 Result	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec	Limits		RPD	
Parameter 1,2-Dichloroethane 3,3-Dimethyl-1-Butanol	Units ug/L	92427029010 Result ND	MS Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec 103	% Rec 105	Limits 70-130		30 30	
Parameter 1,2-Dichloroethane 3,3-Dimethyl-1-Butanol Benzene	Units ug/L ug/L	92427029010 Result ND ND	MS Spike Conc. 1000 20000	Spike Conc. 1000 20000	MS Result 1070 22200	MSD Result 1090 22300	% Rec 103 111	% Rec 105 112	70-130 70-130	1 1	30 30	
Parameter 1,2-Dichloroethane 3,3-Dimethyl-1-Butanol Benzene Diisopropyl ether	Units ug/L ug/L ug/L	92427029010 Result ND ND 1330	MS Spike Conc. 1000 20000 1000	Spike Conc. 1000 20000 1000	MS Result 1070 22200 2540	MSD Result 1090 22300 3720	% Rec 103 111 122	% Rec 105 112 239	70-130 70-130 70-130	1 1	30 30 30 30 30	
Parameter 1,2-Dichloroethane 3,3-Dimethyl-1-Butanol Benzene Diisopropyl ether Ethanol	Units ug/L ug/L ug/L ug/L	92427029010 Result ND ND 1330 ND	MS Spike Conc. 1000 20000 1000	Spike Conc. 1000 20000 1000 1000	MS Result 1070 22200 2540 1130	MSD Result 1090 22300 3720 1150	% Rec 103 111 122 111	% Rec 105 112 239 112	70-130 70-130 70-130 70-130	1 1 38 1	30 30 30 30 30 30	
Parameter	Units ug/L ug/L ug/L ug/L ug/L	92427029010 Result ND ND 1330 ND ND	MS Spike Conc. 1000 20000 1000 1000 40000	Spike Conc. 1000 20000 1000 1000 40000	MS Result 1070 22200 2540 1130 42200	MSD Result 1090 22300 3720 1150 40400	% Rec 103 111 122 111 105	% Rec 105 112 239 112 101	70-130 70-130 70-130 70-130 70-130	1 1 38 1 4	30 30 30 30 30 30 30	

1000

1000

1000

20000

2000

10000

8000

1000

3000

2020

1940

5090

2230

11800

3550

11600

15700

23500

1600

1510

3270

22000

2220

11400

:5930

7060

10400

122

105

109

110

111

114

74

87

105

106

100

100

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

70-130

164

148

291

118

111

118

44

540

282

104

97

101

23

25

43

7 30

1 30

4 30

50

49

41

30 M1

30 M1

30 M1,R1

30 M1.R1

30 E,M1,

R1

30 MS,RS

1000

1000

1000

20000

2000

10000

8000

1000

3000

381

456

2190

ND

ND

ND

ND

6190

7230

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

QC Batch:

473421

Analysis Method:

EPA 8260B

QC Batch Method:

EPA 8260B

Analysis Description:

8260 MSV SC

Associated Lab Samples:

92427012004

METHOD BLANK: 2567585

Date: 05/07/2019 08:39 PM

Associated Lab Samples: 92427012004

Matrix: Water

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
						- Gradimoro
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/06/19 21:54	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/06/19 21:54	
Benzene	ug/L	ND	5.0	1.7	05/06/19 21:54	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/06/19 21:54	
Ethanol	ug/L	ND	200	144	05/06/19 21:54	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/06/19 21:54	
Ethylbenzene	ug/L	ND	5.0	1.8	05/06/19 21:54	
m&p-Xylene	ug/L	ND	10.0	4.1	05/06/19 21:54	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/06/19 21:54	
Naphthalene	ug/L	ND	5.0	2.1	05/06/19 21:54	
o-Xylene	ug/L	ND	5.0	2.0	05/06/19 21:54	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/06/19 21:54	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/06/19 21:54	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/06/19 21:54	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/06/19 21:54	
Toluene	ug/L	ND	5.0	2.0	05/06/19 21:54	
Xylene (Total)	ug/L	ND	5.0	5.0	05/06/19 21:54	
1,2-Dichloroethane-d4 (S)	%	94	70-130		05/06/19 21:54	
4-Bromofluorobenzene (S)	%	102	70-130		05/06/19 21:54	
Toluene-d8 (S)	%	103	70-130		05/06/19 21:54	

LABORATORY CONTROL SAMPLE:	2567586					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.0	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1040	104	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	52.5	105	70-130	
ithanol	ug/L	2000	1970	99	70-130	
thyl-tert-butyl ether	ug/L	100	100	100	70-130	
Ethylbenzene	ug/L	50	49.9	100	70-130	
n&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	54.6	109	70-130	
laphthalene	ug/L	50	52.4	105	70-130	
-Xylene	ug/L	50	49.2	98	70-130	
ert-Amyl Alcohol	ug/L	1000	1100	110	70-130	
ert-Amylmethyl ether	ug/L	100	107	107	70-130	
ert-Butyl Alcohol	ug/L	500	505	101	70-130	
ert-Butyl Formate	ug/L	400	433	108	70-130	
oluene	ug/L	50	49.2	98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

Toluene-d8 (S)

Date: 05/07/2019 08:39 PM

92427012

LABORATORY CONTROL SA Parameter	MPLE:	2567586 Units	Spike Conc.	LC Res	_	LCS % Rec	% Re Limit		Qualifiers			
Xylene (Total)		ug/L	 15	50	150	100	7	0-130		-		
1,2-Dichloroethane-d4 (S)		~g %				97		0-130				
4-Bromofluorobenzene (S)		%				97		0-130				
Toluene-d8 (S)		%				99) 7	0-130				
MATRIX SPIKE & MATRIX SF	PIKE DUP	LICATE: 2568	008		2568009							
			MS	MSD								
		92427153001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
1,2-Dichloroethane	ug/L	ND	1000	1000	972	996	97	100	70-130	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	19800	20300	99	102	70-130	3	30	
Benzene	ug/L	1970	1000	1000	3130	4470	116	250	70-130	35	30	M1,R
Diisopropyl ether	ug/L	ND	1000	1000	1050	1090	105	109	70-130	3	30	
Ethanol	ug/L	ND	40000	40000	39600	40500	99	101	70-130	2	30	
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1970	2020	99	101	70-130	2	30	
Ethylbenzene	ug/L	1340	1000	1000	2290	3180	95	184	70-130	33	30	M1,R
m&p-Xylene	ug/L	4050	2000	2000	5830	8210	89	208	70-130	34	30	M1,R
Methyl-tert-butyl ether	ug/L	256	1000	1000	1410	1650	116	139	70-130	16	30	M1
Naphthalene	ug/L	497	1000	1000	1520	1910	102	141	70-130	23	30	M1
o-Xylene	ug/L	1440	1000	1000	2370	3360	93	192	70-130	35	30	M1,R
tert-Amyl Alcohol	ug/L	ND	20000	20000	22000	22900	110	115	70-130	4	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	2140	2160	107	108	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	11200	11400	112	114	70-130	2	30	
tert-Butyl Formate	ug/L	ND	8000	8000	 7230	6370	90	80	70-130	13	30	
Toluene	ug/L	6900	1000	1000	7650	11400	75	452	70-130	40	30	E,M1, R1
Xylene (Total)	ug/L	5490	3000	3000	8200	11600	90	203	70-130	34	30	MS,R
1,2-Dichloroethane-d4 (S)	%						100	98	70-130			
4-Bromofluorobenzene (S)	%						95	98	70-130			
							4.5-		TO 400			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

100

98 70-130

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Qualifiers



QUALITY CONTROL DATA

Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

QC Batch:

472557

Analysis Method:

EPA 8011

QC Batch Method:

EPA 8011

Analysis Description:

GCS 8011 EDB DBCP

Associated Lab Samples:

92427012001, 92427012002, 92427012003, 92427012004, 92427012005, 92427012006

METHOD BLANK: 2563399

Matrix: Water

Associated Lab Samples:

Date: 05/07/2019 08:39 PM

92427012001, 92427012002, 92427012003, 92427012004, 92427012005, 92427012006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)	ug/L %	ND 103	0.020 60-140	0.011	05/02/19 20:54 05/02/19 20:54

LABORATORY CONTROL SAMPLE	& LCSD: 2563400		2	563401	<u> </u>					
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.28	0.28	113	114	60-140	1	20	
1-Chloro-2-bromopropane (S)	%				97	100	60-140			

MATRIX SPIKE & MATRIX SE	PIKE DUPL	ICATE: 2563	403		2563404							
Parameter	Units	92426990045 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)	ug/L %	0.32	0.25	0.25	0.29	0.31	-12 99	-4 102	60-140 60-140	7	20	M1

SAMPLE DUPLICATE: 2563402						
		92426990044	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20)
1-Chloro-2-bromopropane (S)	%	97	99			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

QC Batch:

472770

Analysis Method:

EPA 8011

QC Batch Method:

EPA 8011

Analysis Description:

GCS 8011 EDB DBCP

Associated Lab Samples:

92427012007, 92427012008, 92427012009, 92427012010, 92427012011, 92427012012, 92427012013, 92427012014, 92427012015, 92427012017, 92427012018

METHOD BLANK: 2564587

Date: 05/07/2019 08:39 PM

Matrix: Water

Associated Lab Samples:

92427012007, 92427012008, 92427012009, 92427012010, 92427012011, 92427012012, 92427012013,

92427012014, 92427012015, 92427012017, 92427012018

Blank Reporting Parameter Units Result Limit MDL Analyzed Qualifiers ND 0.020 0.011 05/03/19 05:12 1,2-Dibromoethane (EDB) ug/L 107 60-140 05/03/19 05:12 1-Chloro-2-bromopropane (S) %

2564589 LABORATORY CONTROL SAMPLE & LCSD: 2564588 LCS LCS LCSD % Rec Max Spike LCSD RPD RPD Qualifiers Parameter Units Conc. Result Result % Rec % Rec Limits ug/L 0.25 0.28 0.28 113 111 60-140 1 20 1,2-Dibromoethane (EDB) 60-140 % 99 96 1-Chloro-2-bromopropane (S)

2564592 MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2564591 MSD MS 92427012008 MS MSD MS MSD % Rec Max Spike Spike % Rec % Rec Limits **RPD** RPD Qual Parameter Units Result Conc. Conc. Result Result 0.30 0.31 124 128 60-140 20 1,2-Dibromoethane (EDB) ug/L ND 0.24 0.24 1-Chloro-2-bromopropane 98 101 60-140 % (S)

SAMPLE DUPLICATE: 2564590 92427012007 Dup Max RPD Qualifiers Parameter Units Result Result RPD ND ND 20 1,2-Dibromoethane (EDB) ug/L 103 100 1-Chloro-2-bromopropane (S) %

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

Ryder Terminal 11929/58916

Pace Project No.:

QC Batch Method:

92427012

QC Batch:

473254 EPA 8011

54 Analysis Method:

EPA 8011

Analysis Description:

GCS 8011 EDB DBCP

Associated Lab Samples:

Date: 05/07/2019 08:39 PM

92427012016

METHOD BLANK: 2567030

Associated Lab Samples: 92427012016

Matrix: Water

		Blank	Reporting				
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers	
1,2-Dibromoethane (EDB)	ug/L	ND ND	0.020	0.012	05/05/19 03:22		•
1-Chloro-2-bromopropane (S)	%	115	60-140		05/05/19 03:22		

LABORATORY CONTROL SAMPLE & L	.CSD: 2567031		25	67032						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.26	0.30	0.27	118	104	60-140	13	20	
1-Chloro-2-bromopropane (S)	%				120	102	60-140			

MATRIX SPIKE & MATRIX SP	PIKE DUPL	LICATE: 2567	033		2567034							
Parameter	Units	92427022015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)	ug/L %	ND	0.24	0.24	0.25	0.25	104 104	103 104	60-140 60-140	1	20	

SAMPLE DUPLICATE: 2567035						
		92427029001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.98	0.13	152	20	
1-Chloro-2-bromopropane (S)	%	109	86			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:

Ryder Terminal 11929/58916

Pace Project No.:

92427012

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-C Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

Date: 05/07/2019 08:39 PM

Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent
error.
Recovery failure due to spiking solution degradation. The initial/continuing calibration for this compound meets criteria and indicates acceptable instrument conditions to offer quantitative results.
Analyte concentration exceeded the calibration range. The reported result is estimated.
Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
RPD value was outside control limits.
The RPD value in one of the constituent analytes was outside the control limits.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

Ryder Terminal 11929/58916

Pace Project No.: 9

Date: 05/07/2019 08:39 PM

92427012

					Analytical
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Batch
92427012001	MW-1	EPA 8011	472557	EPA 8011	472692
92427012002	MW-2	EPA 8011	472557	EPA 8011	472692
92427012003	MW-2D	EPA 8011	472557	EPA 8011	472692
92427012004	MW-3R	EPA 8011	472557	EPA 8011	472692
92427012005	MW-4	EPA 8011	472557	EPA 8011	472692
92427012006	MW-5	EPA 8011	472557	EPA 8011	472692
92427012007	MW-7	EPA 8011	472770	EPA 8011	472943
92427012008	MW-8	EPA 8011	472770	EPA 8011	472943
92427012009	MW-9	EPA 8011	472770	EPA 8011	472943
92427012010	MW-10	EPA 8011	472770	EPA 8011	472943
92427012011	MW-11	EPA 8011	472770	EPA 8011	472943
92427012012	MW-12	EPA 8011	472770	EPA 8011	472943
92427012013	MW-13	EPA 8011	472770	EPA 8011	472943
92427012014	MW-14	EPA 8011	472770	EPA 8011	472943
92427012015	MW-16	EPA 8011	472770	EPA 8011	472943
92427012016	MW-18	EPA 8011	473254	EPA 8011	473277
92427012017	DUP-1	EPA 8011	472770	EPA 8011	472943
92427012018	Field Blank	EPA 8011	472770	EPA 8011	472943
92427012001	MW-1	EPA 8260B	472667		
92427012002	MW-2	EPA 8260B	472667		
92427012003	MW-2D	EPA 8260B	472667		
92427012004	MW-3R	EPA 8260B	473421		
92427012005	MW-4	EPA 8260B	473112		
92427012006	MW-5	EPA 8260B	472667		
92427012007	MW-7	EPA 8260B	473267		
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92427012013	MW-13	EPA 8260B	473267		
92427012014	MW-14	EPA 8260B	472667		
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JUN 2 0 2019

WHEELER PROPERTIES LLC 1341 RUTHERFORD RD GREENVILLE SC 29609

Re:

Request for Property Access - Second Request

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929

UST Division Letter dated January 30, 2019

Greenville County



The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) requested access to your property in January 2019 to enable necessary assessment activities. The scope of work is for Emerald, Inc. and Midlands Environmental Consultants Inc (MECI) to perform an Aggressive Fluid Vapor Recovery event on site and collect groundwater samples from the monitoring wells on your property, to fully assess the petroleum release. To date a reply has not been received. For reference a copy of the letter has been attached for your information.

The Division has the authority pursuant to the State Underground Petroleum Environmental Response Bank Act (S.C. Code Ann. § 44-2-10 et seq. (Supp. 1996)) and the UST Control Regulations (S.C. Code Ann. Regs. 61-92 (Supp.1996)) to hold the UST owner/ operator, responsible for addressing the existing contamination. The Division also has authority under the Pollution Control Act (S.C. Code Ann. § 48-1-10 et seq. (1976)), as amended, to require each and every individual property owner to abate pollution on his or her own property. Indeed, the South Carolina Supreme Court has held landowners strictly liable under the Pollution Control Act for contamination emanating from their property. The Division believes it to be in your best interest to allow the UST Division and our contractors Emerald, Inc. and MECI to address the problem as we, until now, have done. There will be no cost to you in allowing Emerald, Inc. and MECI to access your property for environmental activities. If you deny access to your property, you may be required to conduct environmental assessment activities to include cleanup activities at your own expense.

The UST Management Division requests that you allow assessment activities to proceed in a timely manner and return the required permission form. Please sign the enclosed permission form and return it to my attention on or before Monday, July 1, 2019. If not, the Division may pursue a court order to gain access to the property. Please be advised if the UST Division obtains a court order to conduct the work, assessment activities may be conducted at a time that may be disruptive to you or your tenants.



Your cooperation is greatly appreciated. If you have any questions, please contact me at (803) 898-2446, fax me at (803) 898-0673, or e-mail me at gladdet@dhec.sc.gov.

Sincerely,

Thomas Gladden Jr, Hydrogeologist

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division

Bureau of Land and Waste Management

enc:

UST Division Letter dated June 30, 2019

Permission Form

cc:

Technical file (without enc.)



State Lead Option Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property OR are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit #	11929				
Facility Name:		Former Ryder Terr			
Facility Address:		10 Woods Lake Dr.	. Greenville S	<u>C</u>	
Facility Phone Number	er:				
Is facility within city	y limits? (circle yes/no)	Yes			No
Name of nearest in	tersecting				
street/road/highwa	у:				
Does public water/s	sewer utility service	Yes			No
this facility?		<u> </u>			
*If no, please provide a	contact name/number that o			water and septic tar	ık lines:
Name:		Phone Numb			
	sly removed from the gro			Yes	No
*If yes, please provide	the name/contact number of			tion of the former L	JST(s):
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Is the facility curre	ntly leased to someone?			Yes	No
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Signature of Prope authorized represe	rty Owner or entative:				Date
Affiliation (if applic	cable)				
Signature of Witne	SS				Date
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		Contact Info			
Phone Numbers:	Home:		Cell:		
Email Address:					



ANDY MITCHELL 101 CHELSEA LANE GREER SC 29650 IFEB 2 8 2020



Re: Site History Summary

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929

Release reported February 25, 1997

Request for Site History Summary received February 6, 2020

Greenville County

Dear Mr. Mitchell:

In response to your request for information about environmental conditions and liability associated with the referenced facility, the following is provided.

According to our records, five (5) underground storage tanks (USTs) were registered with the South Carolina Department of Health and Environmental Control (DHEC). All 5 USTs were abandoned by removal on May 1, 1989.

Our records indicate that Lloyd Auten, the tank owner at the time of the above referenced release, complied with the regulatory requirements and performed the initial response actions outlined in R.61-92, UST Control Regulations, Section 280.61. Additionally, they are currently pursuing the extent and severity of petroleum chemicals of concern under our direction. An Aggressive Fluid and Vapor Recovery (AFVR) event will soon be conducted, followed by a groundwater sampling event.

The release of petroleum products from the facility assigned the UST Permit number referenced above is qualified to receive funding under the conditions of the State Underground Petroleum Environmental Response Bank (SUPERB) Act. This means that reasonable costs can be paid by the SUPERB Account for site rehabilitation actions associated with the release. Lloyd Auten, under state and federal law, retains responsibility for any additional actions and associated costs for the release.

Section 80(C) of the SUPERB Act provides that a subsequent purchaser of property from which an UST has been removed is not responsible for site rehabilitation activities other than abatement actions necessary to eliminate any imminent threat to human health or the environment. This exemption applies to the extent that the release is eligible for compensation from the SUPERB Account, provided that the person allows reasonable access to the property for rehabilitation activities, and does not or has not had any familial, financial, or other interest with the person who owned or operated the UST. This applies equally to subsequent lenders or to those who would acquire this property through foreclosure in the future.

The Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. However, DHEC advises against installing a water supply well for drinking, cooking, or bathing purposes until rehabilitation activities are is completed. If you should choose to install a water supply well for these purposes at this time, it is at your discretion. Any future work required by DHEC should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If you have any questions, please contact me at (803) 898-2889. I can also be reached by email at thomasma@dhec.sc.gov or by fax at 803-898-0673.

Sincerely,

Morgan Thomas, Hydrogeologist

Corrective Action & Quality Assurance Section Underground Storage Tank Management Division Bureau of Land and Waste Management

cc: Technical File



MAY 1 2 2021

CERTIFIED MAIL 9214 8969 0099 9790 1419 5406 41

F ANDREW MITCHELL 101 CHELSEA LN GREER SC 29650

Re:

Request for Property Access

Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC

UST Permit #11929

Release reported February 25, 1997

Greenville County

Dear Mr. Mitchell:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control documented a petroleum release from the UST system at the referenced facility.

To determine what risk the above reported release may pose to the environment and public health, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary to define the petroleum plume. The UST Division requests your permission for the state lead contractor to enter your property to perform the necessary work and all future work. The UST Division will keep you apprised of all pending activities and provide you a copy of all reports upon request. Please complete the attached property access form and return it to my attention within fifteen days of receipt of this letter.

If you have any questions, please contact me by phone at (803) 898-2889, by fax at (803) 898-0673, or by email at thomasma@dhec.sc.gov. Thank you for your consideration regarding this matter.

Sincerely,

Morgan Thomas Hydrogeologist

Corrective Action & Quality Assurance Section

Underground Storage Tank Management Division

Morgen Thomas

Bureau of Land and Waste Management

enc: Property Access Agreement for Site Rehabilitation

cc: Technical file (w/o enc)



State Lead Option Property Access Agreement for Site Rehabilitation

Only complete this form if: You are the legal owner of the property OR are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit # 11929							
Facility Name: Former Ryder Ter	Facility Name: Former Ryder Terminal						
Facility Address: 10 Woods Lake	ke Dr., Greenville, SC 29607						
Facility Phone Number:							
Is facility within city limits?	? (check yes/no)		Ī	Yes			No
Name of nearest intersection	ng street/road/highway:						
Does public water/sewer ut	tility service this facility?]	Yes			No
*If no, please provide a conta	ct name/number that can assis	st in the loc	:a	tion of private wa	ter and s	ept	tic tank lines:
Name:		Phone N	ur	nber:			
Were USTs previously remothis facility?	oved from the ground at]	Yes			No
*If yes, please provide the na	me/contact number of a person	n that can	as	ssist in the location	n of the	forr	ner UST(s):
Name:		Phone N	ur	nber:			
Is the facility currently leas	sed to someone?			Yes			No
*If yes, notify them of the pen	nding work scope, and please p	rovide the	ir	name/contact nu	mber:		
Name:		Phone N	ur	nber:			
	icles or other mobile structu ey should be moved prior to						
Name of Property Owner (F							
Signature of Property Own authorized representative:	er or				Date		
Affiliation (if applicable)							
Signature of Witness					Date		
·							
	Contac	t Info					
Phone Numbers:	Home:			Cell:			
Email Address:		***************************************					

State Lead Option Property Access Agreement for Site Rehabilitation

Purpose of the form gives property access to contractor to perform necessary cleanup activities at UST release site(s).

Owner/Operator(s) of UST release sites.

Item-by-item instructions for completing the form.

- Fill in all Site Information boxes.
- Answer all the questions and record any applicable information in the blanks.
- Sign and date the form.

Form is scanned and saved electronically – Record Group Number 169, Retention Schedule 13300

DHEC 3281 (03/2018)



State Lead Option

Property Access Agreement for Site Rehabilitat

Only complete this form if: You are the legal owner of the property OR are the designated author representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit # 11929			
Facility Name: Former Ryder Ter	minal		
Facility Address: 10 Woods Lak	ce Dr., Greenville, SC 29607		
Facility Phone Number:	864-884-0937		
Is facility within city limits?	(check yes/no)	✓ Yes	☐ No
Name of nearest intersecting	ng street/road/highway:	Lownes Hill Rd.	
Does public water/sewer ut	ility service this facility?	✓ Yes	☐ No
*If no, please provide a conta	ct name/number that can assis	st in the location of private wa	ter and septic tank lines:
Name:		Phone Number:	
Were USTs previously remothis facility?	oved from the ground at		☐ No
*If yes, please provide the na	me/contact number of a persor	n that can assist in the location	on of the former UST(s):
Name: You have all +	hat information.	Phone Number: I do	not.
Is the facility currently leas	ed to someone?		☐ No
*If yes, notify them of the pen	ding work scope, and please p	provide their name/contact nu	mber:
Name: Homestead La	un & Landscape	Phone Number: 864-	884-4897
	cles or other mobile structu y should be moved prior to l		
Name of Property Owner (P	Print): F. Andrew M	[itchell	
Signature of Property Own authorized representative:	er or 7. Culid	Will	Date 5/16/53
Affiliation (if applicable)		•	
Signature of Witness	Karen & The	till,	Date 5/16/53
	Contac	t Info	
Phone Numbers:	Home:		-884-0937
Email Address:	am:tch 26390	gmail.com	
		0	



OCT 06 2021

MR BRYAN SHANE PG MIDLANDS ENVIRONMENTAL CONSULTANTS PO BOX 854 **LEXINGTON SC 29071**



Re: Site Specific Work Plan Request **Groundwater Sampling Contract** Solicitation #IFB-5400021335

Dear Mr. Shane:

In accordance with bid solicitation # IFB-5400021335, submission of a Site-Specific Work Plan (SSWP) based on each site information package provided is requested.

The SSWP must be submitted within 20 calendar days of the date of this correspondence. The project manager for each site will issue a notice to proceed once the plan has been reviewed and approved. A weekly update for each site should be emailed to the site's project manager and myself. If you have any questions or need further assistance, please contact me by phone (803) 898-7705 or email wykelim@dhec.sc.gov.

Sincerely,

Matt Wykel, Hydrogeologisi

Corrective Action & Field Support Section

UST Management Division

Bureau of Land & Waste Management

Enc: Site Information Package Summary (SIPS)

Site Information Packages

Cc: Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave. STE 100, Huntersville, NC 28078 (w/ SIPS)

Technical File (w/o Enc)



UNDERGROUND STORAGE TANK PROGRAM BUREAU OF LAND AND WASTE MANAGEMENT 2600 Bull Street, Columbia, South Carolina 29201 Telephone: 803-898-2544

MEMORANDUM

TO:	Statelead Groundwater Sam	pling Contractor	
FROM:	Morgan Thomas		
RE:	Site Specific Work Plan Requ	<u>uest</u>	
Facility Name:	Former Ryder Terminal	Contractor CA# 64472	
Permit Number:	<u>11929</u>	PACE CA #: 64473	
County:	Greenville	RBCA CLASS: <u>2BA</u>	
List Monitoring W Shallow Deep Intermediate	Vells to be Sampled P MW-1, MW-2, MW-3R, MW-4 through MW- MW-2D	Purging Method Non-Bracketing Only -18	
	N/A	BE ON MAP PROVIDED) AP PROVIDED CONTACT INFO w TAX	K MAP INFO)
Additional Potent	iometric Maps Requested - S	see Below (Note: Shallow & Deep Include	ded)
lsopleth Maps re	quested instead of CoC Map N/A	(Only for CoCs >RBSL or SSTL)	
Other:	Please contact Andy Mitchel	l at (864) 884-4897 before mobilizing to	property.
Total G	roundwater Sample Points:	19	
	Analysis Being Requested: _	K . BTEXNM+Oxyg's+1,2 DCA+Eth(8260B),	K7. EDB by EPA 8011
Tota	Water Supply Well Points:	0	
	Analysis Being Requested:		



November 1, 2021

enior Scientis

Mr. Matt Wykel, Hydrogeologist Corrective Action & Field Support Section Underground Storage Tank Management Division Bureau of Land and Waste Management South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

Subject:

Site-Specific Work Plan

Former Ryder Terminal Greenville, South Carolina

SCDHEC Site ID Number 11929 MECI Project Number 21-7721

Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Wykel,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Site-Specific Work Plan for the referenced site.

On October 25, 2021, MECI personnel performed a site visit to the subject sites to evaluate site conditions, locate monitoring wells and identify potential problems for future sampling activities.

If you have any question or comments, please feel free to contact us at 803-808-2043.

Sincerely,

Midlands Environmental Consultants, Inc.

Project Biologist



Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Ms. Morgan Thomas From: Jeff L. Coleman			CDHEC Project Manager) ntractor Project Manager)
Contractor: Midlands Environmental Con	sultants, Inc. UST Contr	ractor Certification Number: 009	
Facility Name: Former Ryder Terminal Facility Address: 10 Woods Lake Drive,	Greenville, SC 29607	UST Permit #:	11929
Responsible Party: Auten Ingrid Lloyd		Phone: 864-8	59-7800
RP Address: 4925 Coach hill Drive, Gree	enville, SC 29615		
Property Owner (if different): Wheele			
Property Owner Address: 1341 Ruther		09	
Current Use of Property: Homestead	Landscaping		
Scope of Work (Please check all th	at apply)		
☐ IGWA ☐ Tier II		Groundwater Sampling	☐ GAC
☐ Tier I ☐ Monitorin	ng Well Installation	☐ Other	
Analyses (Please check all that app	oly)		
Groundwater/Surface Water:			
☑ BTEXNMDCA (8260D)	☐ Lead	☐ BOD	
✓ Oxygenates (8260D)	☐ 8 RCRA Metals	☐ Nitrate	☐ Ethanol
✓ EDB (8011)	□ TPH	☐ Sulfate	☐ Dissolved Iron
☐ PAH (8270E)	☐ pH	☐ Other	
Drinking Water Supply Wells:			
☐ BTEXNMDCA (524.2)	Mecury (200.8 245	5.1 or 245.2)	1)
Oxygenates & Ethanol (8260D)	RCRA Metals (200	0.8)	
Soil:			
☐ BTEXNM ☐ Lead ☐ F	RCRA Metals	☐ TPH-DRO (3550B/8015B)	☐ Grain Size
	Oil & Grease (9071)	☐ TPH-GRO (5030B/8015B)	□ тос
Air:			
BTEXN			
Sample Collection (Estimate the nu	mber of samples of each	matrix that are expected to be co	ollected.)
Soil	Water Supply We	ellsAir	1 Field Blank
18 Monitoring Wells	1 Surface Water	1 Duplicate	1Trip Blank
Field Corporing #8-44-4-1-1-			
Field Screening Methodology	l dandh fan a ail a stat an a		
Estimate number and total completed			
# of shallow points proposed:	Est	imated Footage:	feet per point
# of deep points proposed:	Est	imated Footage:	feet per point
Field Screening Methodology:			
Permanent Monitoring Wells			
Estimate number and total completed	depth for each well, and	include their proposed locations	on the attached map.
# of shallow wells:		d Footage:	
# of deep wells:			
# of recovery wells:			
Comments, if warranted:			•

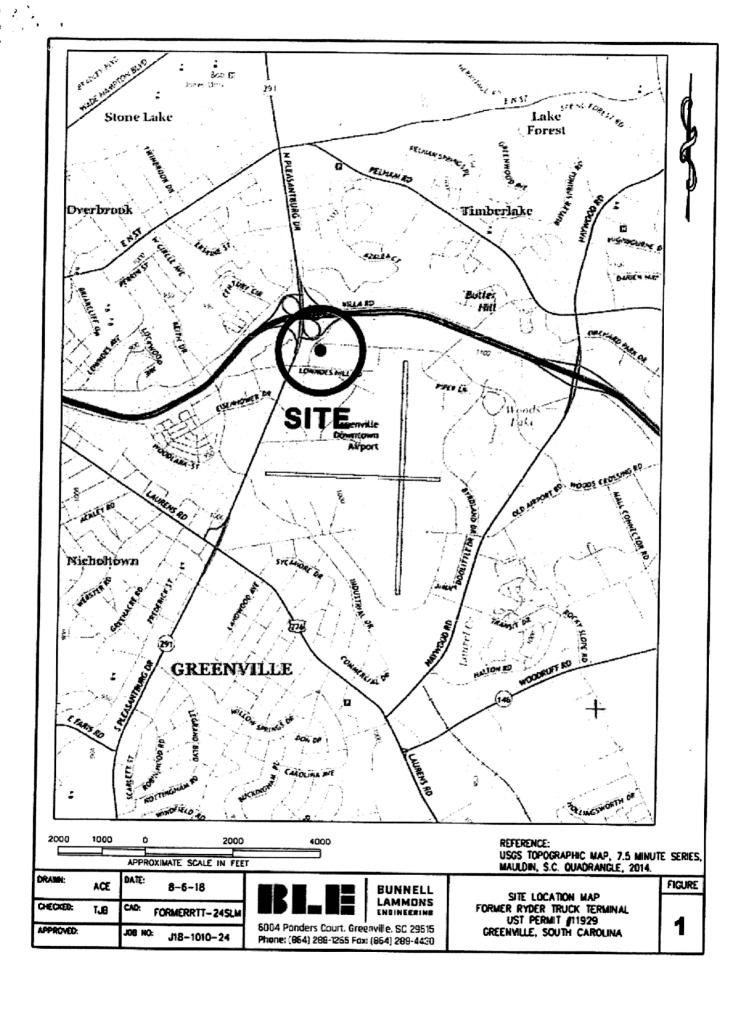
UST	Permit #: 11929 F	acility Name: _l	Former Ryder Terminal	
Field	ementation Schedule (Number of a Work Start-Up: 11/1/2021 ort Submittal: 1/1/2022		from approval) Field Work Completion: 12/1/2021 # of Copies Provided to Property Owners:	
	fer Characterization o Test: ☐ Slug Test: ☐ (Check	one and provid	de explanation below for choice)	
Inves	stigation Derived Waste Disposal	Tons		Gallons
Drillin	g Fluids:	Gallons	Free-Phase Product:	_ Gallons
For execution event -During All other -Samp	, etc.	Ils to be aband V-9, and MW-15 we in need of a well lid ys (8260D) and ED	B (8011).	
Comp	oliance With Annual Contractor Qu	uality Assura	nce Plan (ACOAP)	
	Laboratory as indicated in ACQAP? Name of Laboratory:	(Yes/No)	If no, indicate laboratory information below.	
	Well Driller as indicated in ACQAP? Name of Well Driller: SCLLR Certification Number:	(Yes/No)	If no, indicate driller information below.	
	Other variations from ACQAP. Pleas	se describe be	low.	
	nments Attach a copy of the relevant porti	on of the USG	S topographic map showing the site location.	
2.	must include the following: North Arrow Location of property lines Location of buildings Previous soil sampling locations Previous monitoring well locations Proposed soil boring locations	Proposed n Legend with Streets or hi Location of Location of	curately scaled, but does not need to be surveyed. The monitoring well locations in facility name and address, UST permit number, and bailighways (indicate names and numbers) all present and former ASTs and USTs all potential receptors	·
3.	Assessment Component Cost Agr	eement, SCDI	HEC Form D-3664	

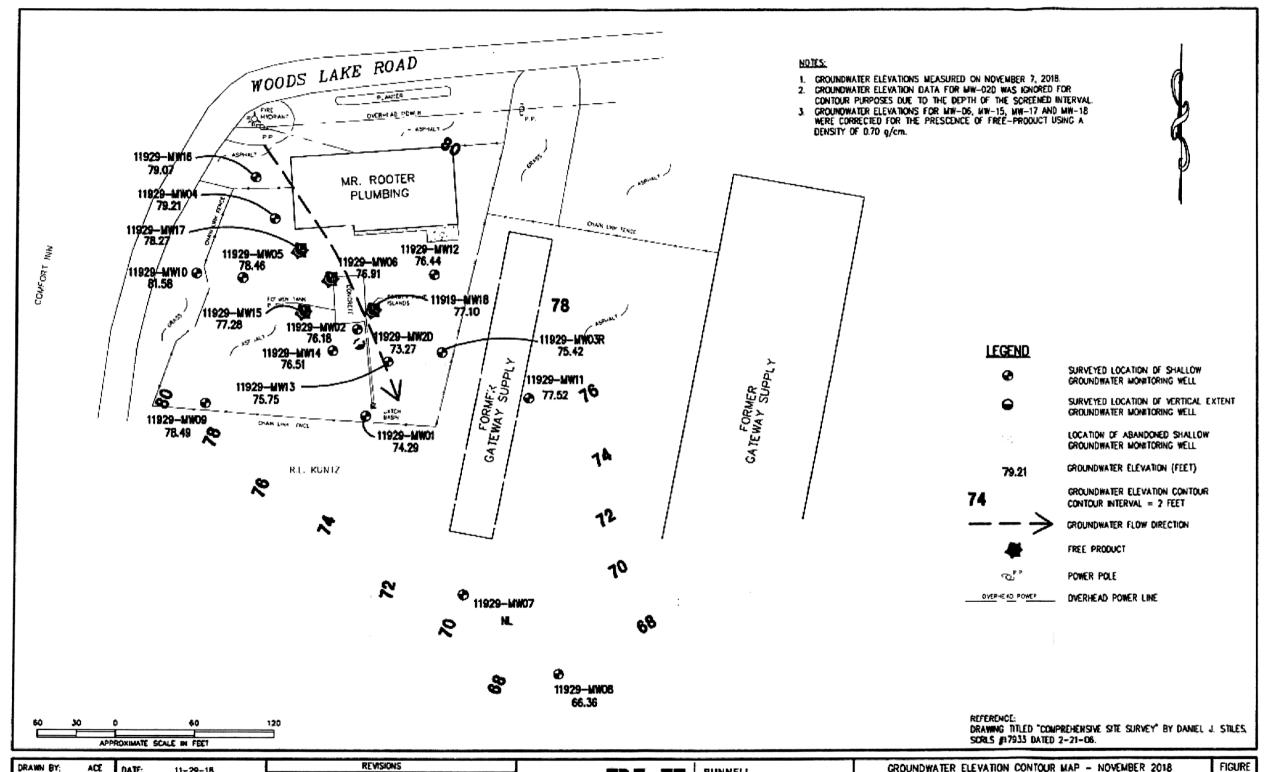


ASSESSMENT COMPONENT COST AGREEMENT SOUTH CAROLINA

Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
CONTRACT PO # 4600830568

Facility Name: Former Ryder Terminal			_		
UST Permit #:11929	Cos	t Agreement #:	Proposal	_	
ITEM	OLIANITITY (T—	T		T
ITEM	QUANTITY	UNII	UNIT PRICE	A STANDAR TO STANDARD	TOTAL
A. Plan Preparation				5.25	
1. Site Specific Work Plan	1	each .	\$425.00	Physical magainst bare	\$425.00
2. Tax Map		each	\$50.00	A to Charles and Control of the	\$0.00
B. Receptor Survey		each	\$50.00		\$0.00
D. Mob/Demob				10 E 6 6 7	
2. Personnel	1 1	each	\$610.00		\$610.00
J. Groundwater Sample Collection / Gaug	e Depth to W	1	1		
1. Groundwater Purge	1	per well	\$10.00		\$10.00
2. Air or Vapors		per sample	\$1.00		\$0.00
Water Supply Sample		per sample	\$40.00		\$0.00
4. Groundwater No Purge/Surface Water	18	per sample	\$8.00		\$144.00
R-1. HydraSleeve		per sample	\$23.00		\$0.00
5. Gauge Well only		per data point	\$1.00		\$0.00
Sample Below Product		per well	\$1.80		\$0.00
7. Passive Diffusion Bag		per well	\$25.00		\$0.00
Groundwater (low flow purge)		per well	\$25.00		\$0.00
10. Equipment Blank		per day	\$10.00		\$0.00
Q. Disposal (gallons or tons)					
1. Wastewater	200	per gallon	\$0.33		\$66.00
2. Free Product		per gallon	\$0.05		\$0.00
R. Miscellaneous					
2. Additional Potentiometric Map		each above required two	\$10.00		\$0.00
3. Isopleth Map		each above required one	\$50.00		\$0.00
4. Data Table		per data set	\$100.00		\$0.00
5. Redraw/Digitize Site Map		each	\$150.00		\$0.00
6.Replace Well Lid	1	each	\$10.00		\$10.00
Y. Well Repair					
1. Additional Copies of Report Delivered		per copy	\$10.00		\$0.00
5. Replace well cover bolts		each	\$6.00		\$0.00
6. Replace locking well cap & lock		each	\$10.00		\$0.00
10. Replace missing/illegible well ID plate		each	\$10.00		\$0.00
Subtotal			ψ10.00		\$1,265.00
S. Report Preparation/Project Coordination	<u> </u>	Percent of Subtotal	0%	11.00	7.32000
TOTAL			0,0		\$1,265.00
				1. 1 mm (中国) 大田 (中国) (中国) (中国) (中国)	+ -,=





DRAWN BY: ACE	DATE:	11-29-18		REVISIONS		BUNNELL	CROUNDWATER ELEVATION CONTOUR MAP - NOVEMBER 2018	FIGURE
	1		No.	DESCRIPTION	81	LAMMONS	FORMER RYDER TRUCK TERMINAL	
CHECKED BY: TJB	FILE:	FORMERRTT-24FWTM				EP EM EMBINECRINE	SCOHEC UST PERMIT #11929	9
APPROVED BY:	JOB NO:	40 4040 04				6004 Ponders Court, Breenville, SC 29615	10 WOODS LAKE ROAD	_
APPROVED BI:	JAME HU.	J18-1010-24				Phone: [864] 288-1265 For: (964) 289-4430	GREENVILLE, SOUTH CAROLINA	



NOV 24 2021



MR BRYAN SHANE PG MIDLANDS ENVIRONMENTAL CONSULTANTS PO BOX 854 LEXINGTON SC 29071

Re: Notice to Proceed Site-Specific Work Plan (SSWP) Approval Groundwater Sampling Contract Solicitation #IFB-5400021335, PO #4600830568 Former Ryder Terminal, 10 Woods Lake Dr., Greenville, SC UST Permit #11929; MECI CA #64472; Pace CA #64473 Greenville County

Dear Mr. Shane:

In accordance with bid solicitation #IFB-5400021335, the SSWP has been reviewed and approved. A status report of the project should be provided on a weekly basis. If any quality assurance problems arise, you must contact me within 24 hours by phone or email.

Please coordinate access to the facility with the property owner. **Sampling should be conducted** within 30 calendar days from the date of this letter. If the final report is not submitted within 60 days of the date of this correspondence, a late fee may be imposed. The final report is to be submitted to the contract manager.

If you have any site-specific questions, please contact me by email thomasma@dhec.sc.gov or phone (803) 898-2889. If you have any contract specific questions, please contact Matt Wykel by email wykeljm@dhec.sc.gov or phone (803) 898-7705.

Sincerely,

Morgan Thomas, Hydrogeologist

Corrective Action & Quality Assurance Section

n shomal

UST Management Division

Bureau of Land & Waste Management

Enc: Approved Cost Agreement (both CAs)

Cc: Ms. Lindsey Wooten, Pace Analytical Services, 9800 Kincey Ave, STE 100, Huntersville, NC, 28078 (w/ CA)

Technical File (w/ Enc)

Approved Cost Agreement

Facility: 11929 FORMER RYDER TERMINAL

THOMASMA PO Number:

November 22, 2021

FORMER RYDER TERMINAL

64473

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
K ANALYSES					
	GW GROUNDWATER	1 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	22.0000	\$26.000	572.00
		7 EDB BY EPA 8011	21.0000	\$22.000	462.00
			Total Amo	unt	1,034.00

Approved Cost Agreement

64472

Facility: 11929 FORMER RYDER TERMINAL

THOMASMA PO Number:

November 22, 2021

Task / Description Categories	Item Description	Qty / Pct	Unit Price	<u>Amount</u>
A PLAN PREPARATION				
	1 SITE SPECIFIC WORK PLAN	1.0000	\$425.000	425.00
D MOB/DEMOB				
	2 PERSONNEL	1.0000	\$610.000	610.00
J SAMPLE COLLECTION				
	1 GROUND WATER PURGE	1.0000	\$10.000	10.00
	4 GROUNDWATER NO-PURGE/DUPL/GRAB	18.0000	\$8.000	144.00
Q DISPOSAL				
	1 WASTEWATER	200.0000	\$0.330	66.00
R MISCELLA NEOUS				
	R-6 REPLACE WELL LID	1.0000	\$10.000	10.00

Total Amount 1,265.00

MONITORING REPORT

Former Ryder Terminal
10 Woods Lake Drive
Greenville, South Carolina
Greenville County
UST Permit# 11929; CA# 64472
Solicitation# IFB-5400021335; PO# 4600830568

Prepared By:



231 Dooley Road, Lexington, SC 29073 (803) 808-2043 fax: 808-2048

January 12, 2022



January 12, 2022

Mr. Arthur Brown, Hydrogeologist Corrective Action Section Underground Storage Tank Program Bureau of Land and Waste Management South Carolina Department of Health and Environmental Control 2600 Bull Street Columbia, South Carolina 29201

Subject: Report of Groundwater Sampling

Former Ryder Terminal Greenville, South Carolina

Greenville County

UST Permit# 11929; CA# 64472 MECI Project Number 21-7721

Certified Site Rehabilitation Contractor UCC-0009

Dear Mr. Brown,

Midlands Environmental Consultants Inc. (MECI) is pleased to submit the attached Report of Groundwater Sampling for the referenced site. This report describes site activities conducted at the site in general accordance with South Carolina Department of Health and Environmental Control's (SCDHEC) Quality Assurance Program Plan for the Underground Storage Tank Management Division (QAPP).

Midlands Environmental appreciates the opportunity to offer our professional environmental services to you on this project. Please feel free to contact us at 803-808-2043 if you have any immediate questions or comments.

Sincerely,

Midlands Environmental Consultants, Inc.

Jeff L. Coleman Senior Scientist Colin My Phothips, P.G. Senior Hydrogeologist

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	RECEPTOR SURVEY & SITE DATA	1
3.0 9	SAMPLING AND CHEMICAL ANALYSES	2
	RESULTS AND DISCUSSION	
5.0	QUALIFICATIONS OF REPORT	4

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TABLES: Table 1 – GROUNDWATER COC DATA

Table 2 – SITE ACTIVITY SUMMARY

FIGURES: Figure 1 – TOPOGRAPHIC MAP

Figure 2 – SITE BASE MAP

**Figure 3 – GROUNDWATER COC SITE MAP
**Figure 4 – POTENTIOMETRIC DATA SITE MAP

APPENDIX A - SAMPLING LOGS, LABORATORY DATA SHEETS AND CHAIN OF CUSTODY FORMS

APPENDIX B - TAX MAP DATA

APPENDIX C – DISPOSAL MANIFEST

APPENDIX D – ACCESS AGREEMENTS

APPENDIX E – DATA VERIFICATION CHECKLIST

APPENDIX F – PHOTOS

**Not Applicable for Report

1.0 INTRODUCTION

i. Facility Information

Name: Former Ryder Terminal

Address: 10 Woods Lake Drive, Greenville, SC 29607

Telephone #: N/A

ii. Owner/Operator Information

Name Llyod D. Auten

Address 4925 Coach Hill Drive, Greenville, SC 29615

Telephone # (864) 859-7800

iii. Property Owner Information

Name Mitchell F. Andrew

Tax Map #: Greenville County Tax Map #: 0282000100500

Address 101 Chelsea Lane, Greer, SC 29650

Telephone # (864) 884-0937

iv. Contractor Information

Name: Midlands Environmental Consultants, Inc.

Certification #: 9

Address: P.O. Box 854, Lexington, SC 29071

Telephone #: (803) 808-2043

v. Facility History

Release Da	te:	2/25/1997			
Estimated (Estimated Quantity of Release: Unknown				
Other Rele	ases at Facility:	N/A			
Release Ranking: 2BA					
Current Site Usage:		Homestead Landscaping Company			
Tank #	Capacity/Product	In Use/Abandoned	Tank Status		
1	20,000 Gal. Diesel	Abandoned	Removed (5/1/1989)		
2	5,000 Gal. Diesel	Abandoned	Removed (5/1/1989)		
3	6,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)		
4	5,000 Gal. Gasoline	Abandoned	Removed (5/1/1989)		
5	550 Gal. Heating Oil	Abandoned	Removed (5/1/1989)		

2.0 RECEPTOR SURVEY & SITE DATA

i. Known Potential Receptors

Receptor ID#	Notes
N/A	N/A

ii. Receptor Survey Results

A receptor survey was not requested as part of the approved cost agreement.

iii. Site/Adjacent Land Usage (Residential, Commercial, Agricultural, Industrial, etc.)

Site	Commercial
North	Commercial
South	Commercial
East	Commercial
West	Commercial
Permit #'s of UST Sites within 1,000' feet of site	04355, 04465, 19686 & 04252

3.0 SAMPLING AND CHEMICAL ANALYSES

On January 4, 2022, MECI personnel collected groundwater samples from fourteen (14) monitoring wells at the subject site. Four (4) monitoring wells (MW-1, MW-6, MW-15 & MW-17) was gauged during sampling activities. Monitoring MW-1 was found to be heavily damaged and the casing is severely bent and unable to be sampled. Monitoring wells MW-16, MW-15 and MW-17 were gauged and determined to contain measurable free phase petroleum product. Based on a request from SCDHEC, only monitoring wells which did not bracket the watertable were to be purged prior to sample collection. Two (2) monitoring wells were purged prior to sample collection.

MECI personnel utilized an electronic water level indicator for water level measurements and an oil/water interface probe for free phase petroleum product level measurements. Where applicable, purging was completed by bailing at least five well volumes of water from the well, until pH, conductivity, dissolved oxygen and turbidity stabilized, or all water was evacuated from the well, whichever occurred first. Sampling/purging was completed utilizing a prepackaged, clear, disposable polyethylene bailer and nylon rope. A new set of nitrile gloves were worn at each monitoring well, and at all time samples were handled. Field measurements of pH, conductivity, dissolved oxygen, and water temperature were obtained before well sampling process. MECI utilized a YSI Pro20 meter for DO (mg/L) and temperature readings (°C), YSI Pro1030 meter for pH and conductivity (uS) readings and a MicroTPI turbidimeter for turbidity readings (NTU). The attached Field Data Information Sheets presents the results of the field measurements obtained. The wells were sampled in accordance with the most recent revision of SCDHEC's Quality Assurance Program Plan for the Underground Storage Tank Management Division and the most recent revision MECI's Standard Operating Procedures.

Groundwater samples obtained were sent to Pace Analytical Services, Inc. of Huntersville, NC (SCDHEC Laboratory Certification #99006001) for analysis.

The following sampling matrix contains well development and requested analyses for each well:

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
									Ana	ılyte Samı	oled		
MW-1			X										
MW-2		X					X	X	X				
MW-2D	X						X	X	X				
MW-3R		X					X	X	X				
MW-4		X					X	X	X				·
MW-5		X		0.75	. 137.1		X	X	X				

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes

MTBE=Methyl tertiary butyl ether

EDB = Ethylene Dibromide

Sample ID	Purge	No Purge	Gauge Only	Low-Flow Sampling	Not Sampled	Not Located	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 8260D)	8 Oxygenates (EPA Method 8260D)	EDB (EPA Method 8011)	PAHs (EPA Method 8270E)	Total Lead (EPA Method 6010)	BTEX, Naphthalene, MTBE, 1,2 DCA (EPA Method 524.2)	EDB (EPA Method 504.1)
									Ana	ılyte Samı	pled		
MW-6			X										
MW-7		X					X	X	X				
MW-8		X					X	X	X				
MW-9		X					X	X	X				
MW-10		X					X	X	X				
MW-11		X					X	X	X				
MW-12		X					X	X	X				
MW-13		X					X	X	X				
MW-14		X					X	X	X				
MW-15			X										
MW-16	X						X	X	X				_
MW-17			X										
MW-18		X					X	X	X				
DUP.							X	X	X				
Field Blank							X	X	X				
Trip Blank							X	X					

Notes: BTEX = Benzene, Toluene, Ethylbenzene, & Total Xylenes

MTBE=Methyl tertiary butyl ether 1,2 DCA = 1,2 Dichloroethane EDB = Ethylene Dibromide

Purge water produced by the purging process was treated on-site utilizing a granular activated carbon unit. A total of 32.50 gallons of purge water was disposed of in this manner. A disposal manifest for the referenced purge water is attached in Appendix C and the required Post-GAC laboratory results in presented in Appendix B.

4.0 RESULTS AND DISCUSSION

- The apparent groundwater flow from the release is to the southeast toward drainage features associated with the Laurel Creek.
- Free phase petroleum product was detected in monitoring wells MW-6, MW-15 and MW-17. Groundwater water samples were not collected beneath the product layer during sampling activities. The analytical results indicate petroleum impact to the surficial aquifer with the highest dissolved concentrations being detected in MW-13 and MW-18. Of the fourteen sampling locations analyzed, four samples (MW-2, MW-4, MW-13 and MW-18) detected petroleum constituents above Risked Based Screening Levels (RBSL's).
- Petroleum constituents detected above the established RBSL include:

Compound	RBSL/SCAL (ug/l)	Wells Above RBSL
Product	0.01'	MW-6, MW-15 & MW-17
Benzene	5	MW-2, MW-13 & MW-18
Toluene	1,000	N/A
Ethylbenzene	700	N/A
Total Xylenes	10,000	N/A
Naphthalene	25	MW-2, MW-4, MW-13 & MW-18
MTBE	40	N/A
1,2 DCA	5	N/A
EDB	0.05	MW-13
TAA	240	N/A
TAME	128	N/A
ETBA	NE	RBSL Not Established
TBA	1,400	MW-3
TBF	NE	RBSL Not Established
DIPE	150	N/A
Ethanol	10,000	N/A
ETBE	47	N/A

• In order to assess precision, field duplicate samples were collected and analyzed along with the reviewed batch samples. The duplicated samples were analyzed for the same parameters as the associated parent samples. Precision is determined by calculating the Relative Percent Differences (RPD) between each pair of samples. The RPD control limit for the groundwater samples is 20%. Duplicate samples were collected from parent samples from MW-3R. The precision for the target analytes were met for these sample pairs and the analytical results detected the same compounds at similar concentrations. Furthermore, field blanks and trip blanks were collected and submitted during the groundwater sampling activities. No detectable concentrations of the requested method constituents were reported in either of the field or trip blanks.

5.0 QUALIFICATIONS OF REPORT

The activities and evaluative approaches used in this assessment are consistent with those normally employed in hydrogeological assessment and waste management projects of this type. Our evaluation of site conditions has been based on our understanding of the site, project information provided to us, and data obtained in our exploration. Contents of this report are intended for the sole use of MECI and SCDHEC under mutually agreed upon terms and conditions. If other parties wish to rely on this report, please contact MECI prior to their use of this information so that a mutual understanding and agreement of the terms and conditions of our services can be established.

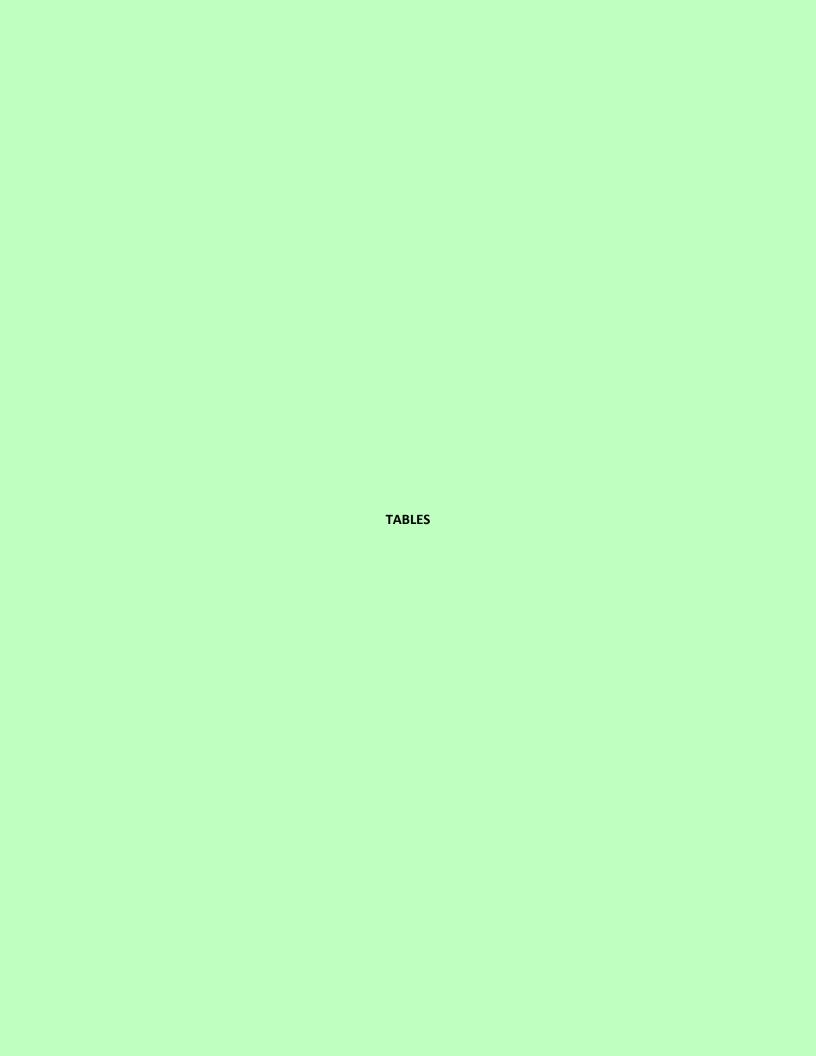


Table # 1 Summary of Analytical Results - Water Samples Former Ryder Terminal

Facility ID# 11929

Analytic	cal Method	EPA 8011									EPA 8260D								
Sample ID	Constituent of Concern	1,2-Dibromoethane (EDB)	1,2-Dichloroethane	3,3-Dimethyl-1- Butanol	Benzene	Diisopropyl ether	Ethanol	Ethyl-tert-butyl ether	Ethylbenzene	Methyl-tert-butyl ether	Naphthalene	Toluene	Xylene (Total)	m&p-Xylene	o-Xylene	tert-Amyl Alcohol	tert-Amylmethyl ether	tert-Butyl Alcohol	tert-Butyl Formate
	Date Collected (mm/dd/yy)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
DUP	01/04/2022	<0.0073	<2.1	<53.9	1.9 J	<3.5	<144	<8.5	<1.8	<3.1	11.0	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
FB	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-10	01/04/2022	<0.0068	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-11	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-12	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-13	01/04/2022	0.057	<4.1	<108	18.3	<7.0	<288	<16.9	<3.7	<6.2	219	<4.0	61.2	12.4 J	48.8	<131	<6.1	<182	<48.2
MW-14	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	3.1 J	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-16	01/04/2022	<0.0069	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-18	01/04/2022	<0.0070	<2.1	<53.9	76.4	<3.5	<144	<8.5	5.6	<3.1	191	<2.0	19.6	7.1 J	12.5	<65.6	<3.0	<91.0	<24.1
MW-2	01/04/2022	<0.0072	<2.1	<53.9	25.5	<3.5	<144	<8.5	<1.8	<3.1	110	<2.0	<5.0	<4.1	5.0 J	<65.6	<3.0	<91.0	<24.1
MW-2D	01/04/2022	<0.0071	<2.1	<53.9	2.3 J	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-3R	01/04/2022	<0.0071	<2.1	<53.9	2.0 J	<3.5	<144	<8.5	<1.8	<3.1	11.6	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-4	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	68.8	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-5	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-7	01/04/2022	<0.0070	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-8	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
MW-9	01/04/2022	<0.0071	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
ТВ	01/04/2022	N/A	<2.1	<53.9	<1.7	<3.5	<144	<8.5	<1.8	<3.1	<2.1	<2.0	<5.0	<4.1	<2.0	<65.6	<3.0	<91.0	<24.1
	olina RBSL for Indwater	0.05	5	N/A	5	150	10000	47	700	40	25	1000	10000	N/A	N/A	240	128	1400	N/A
	rolina Action Groundwater	N/A	N/A	N/A	N/A	150	10000	47	N/A	N/A	N/A	N/A	N/A	N/A	N/A	240	128	1400	N/A

NOTES:

ND = Not Detected

ft. BGS = feet below ground surface

mg/L = milligrams per liter

ug/L = micrograms per liter

Bold data above the RBSL (Risk Based Screening Level)

<u>Table 2</u> <u>Site Activity Summary</u>

UST Permit #: 11929

Facility Name: Former Ryder Terminal

County: Greenville

Field Personnel: S. Sprott, T. Adorno



231 Dooley Road, Lexington, SC 29073 (803) 808-2043 fax: 808-2048

Comments	# Gals. Purged	Intial Dissolved Oxygen (mg/L)	Groundwater Elevation	TOC Elevation	Product Thickness (ft)	Depth to Water (ft)	Depth to Product (ft)	Screened Interval	Time	Date	Sampled?	Sample ID
Stick-Up Well is damaged and casing is bent/Unable to Sample Well	0.00	NS	NS	100.70	***	NS	***	21-31	NS	1/4/22	N	MW-1
Odor	0.00	1.54	75.66	100.10	***	24.44	***	20-30	13:55	1/4/22	Y	MW-2
Slight Odor	23.50	4.67	72.55	99.29	***	26.74	***	50-55	13:27	1/4/22	Y	MW-2D
Strong Odor/Replaced Well Lid; however, unable to bo down properly/Well needs new vault	0.00	1.95	75.83	99.00	***	23.17	***	22-32	12:48	1/4/22	Y	MW-3R
Odor	0.00	1.93	78.63	102.67	***	24.04	***	20-30	11:18	1/4/22	Y	MW-4
No Odor	0.00	1.61	77.21	101.48	***	24.27	***	19-29	11:55	1/4/22	Y	MW-5
FPP = Free Phase Product Detected	0.00	FPP	78.06	101.74	1.32	24.80	23.48	19-29	FPP	1/4/22	N	MW-6
No Odor	0.00	3.28	66.39	92.67	***	26.28	***	23-33	10:34	1/4/22	Y	MW-7
No Odor	0.00	3.01	66.01	88.76	***	22.75	***	23-33	10:44	1/4/22	Y	MW-8
No Odor	0.00	3.79	77.28	102.26	***	24.98	***	20-30	12:06	1/4/22	Y	MW-9
No Odor	0.00	3.30	80.12	104.67	***	24.55	***	20-30	11:50	1/4/22	Υ	MW-10
No Odor	0.00	2.98	77.37	100.66	***	23.29	***	20-30	10:28	1/4/22	Y	MW-11
No Odor	0.00	1.80	76.59	101.38	***	24.79	***	20-30	12:14	1/4/22	Υ	MW-12
No Odor	0.00	1.23	75.22	98.62	***	23.40	***	23-33	13:46	1/4/22	Υ	MW-13
No Odor	0.00	1.88	75.81	99.30	***	23.49	***	22-32	12:32	1/4/22	Y	MW-14
TOTAL GALLONS PURGED	23.50					•	•			•	•	

<u>Table 2</u> <u>Site Activity Summary</u>

UST Permit #: 11929

Facility Name: Former Ryder Terminal

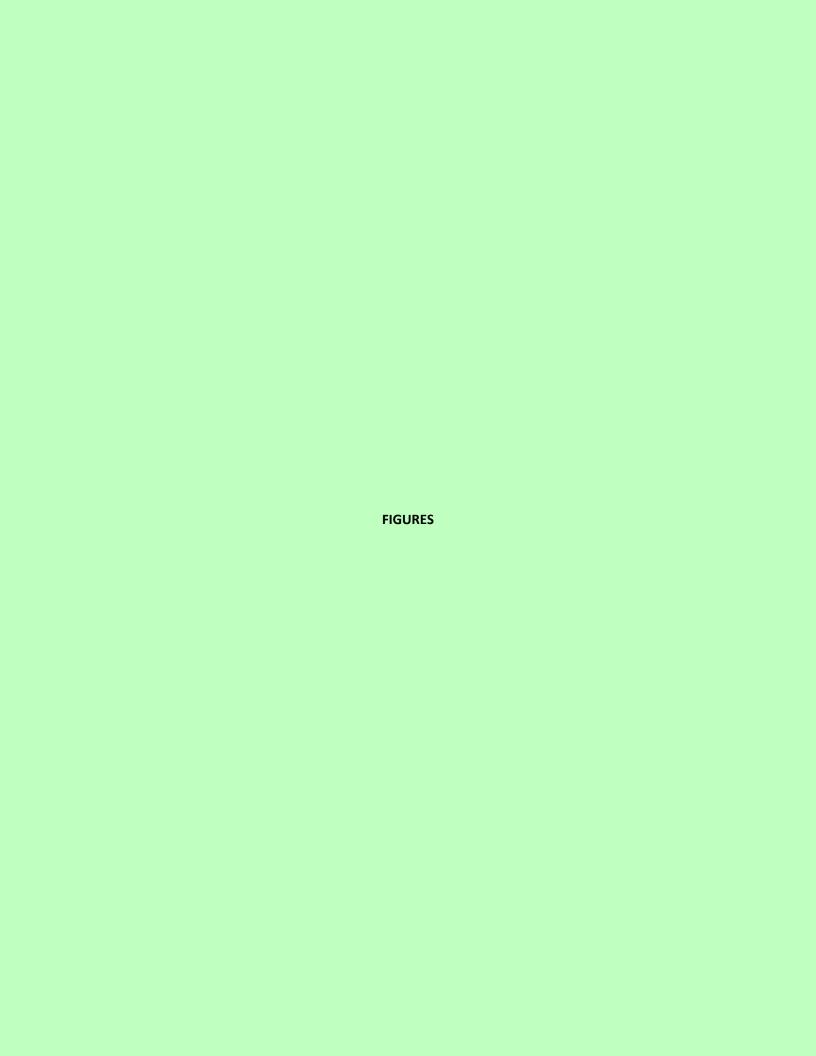
County: Greenville

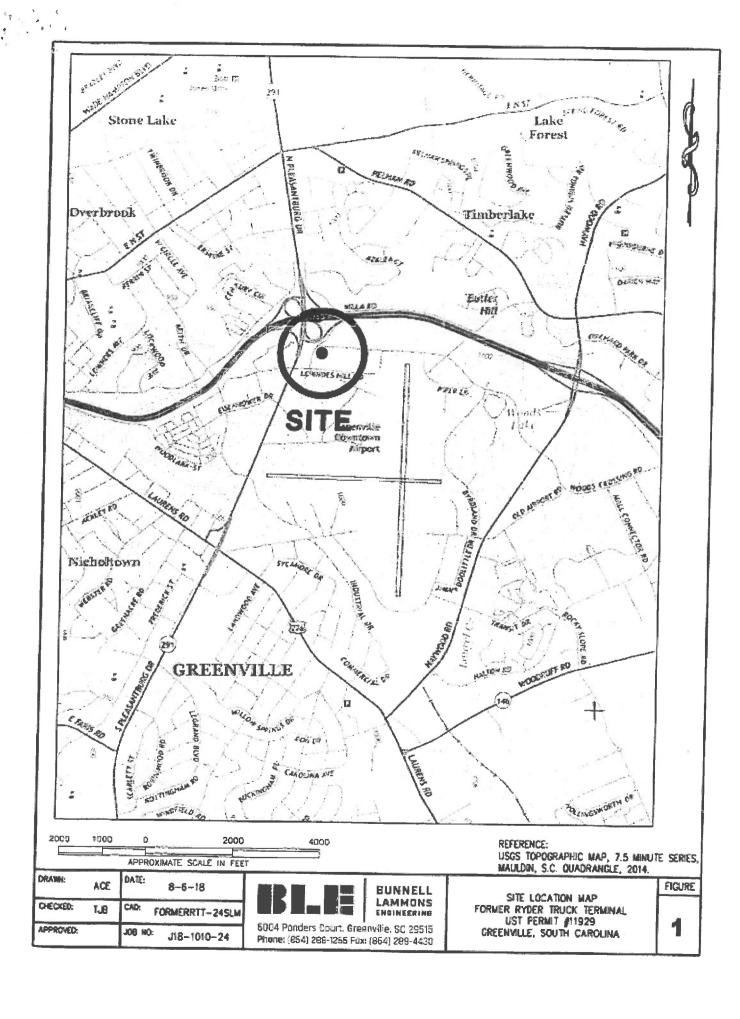
Field Personnel: S. Sprott, T. Adorno

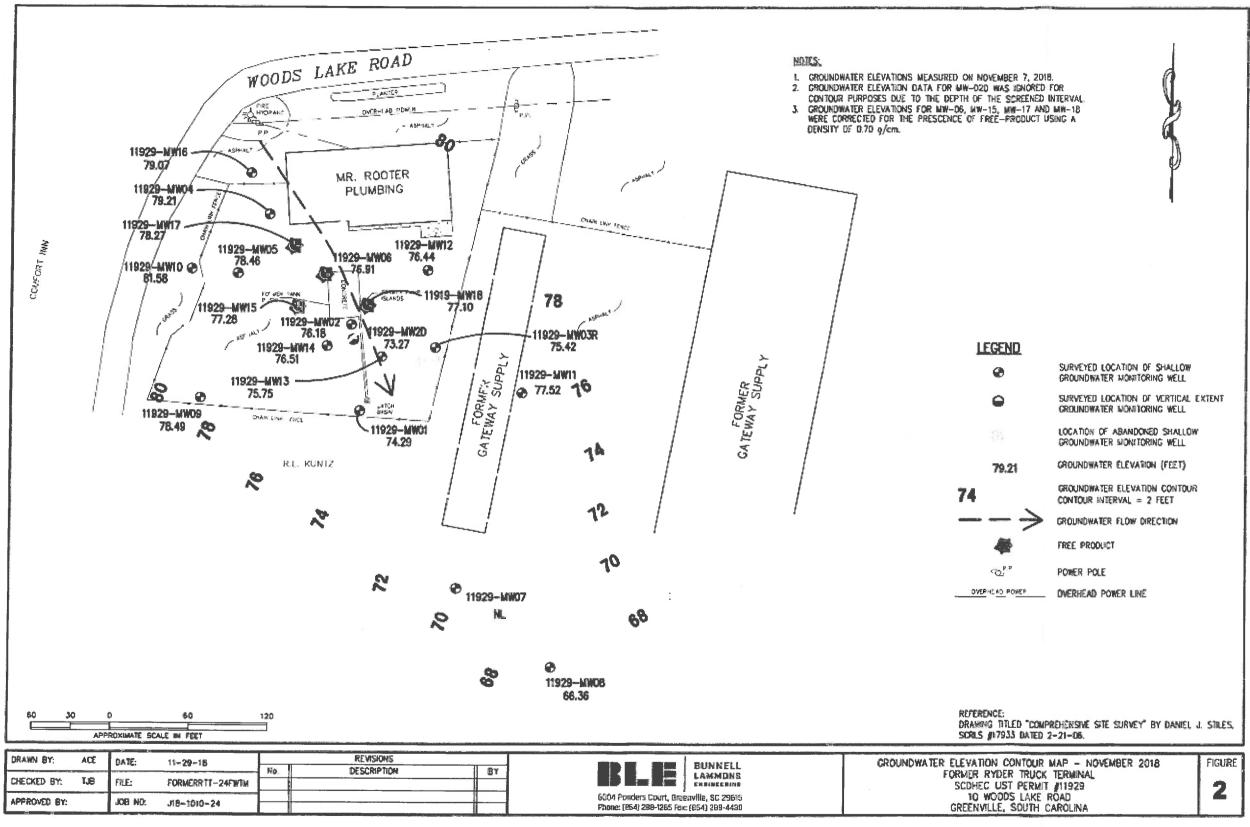


231 Dooley Road, Lexington, SC 29073 (803) 808-2043 fax: 808-2048

Sample ID	Sampled?	Date	Time	Screened Interval	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	TOC Elevation	Groundwater Elevation	Intial Dissolved Oxygen (mg/L)	# Gals. Purged	Comments
MW-15	N	1/4/22	FPP	23-33	23.90	24.07	0.17	100.39	76.46	FPP	0.00	FPP = Free Phase Product Detected
MW-16	Υ	1/4/22	11:40	24-34	***	23.45	***	102.74	79.29	4.16	9.00	Slight Odor
MW-17	N	1/4/22	FPP	25-35	23.80	24.21	0.41	102.09	78.23	FPP	0.00	FPP = Free Phase Product Detected
MW-18	Υ	1/4/22	14:03	25-35	***	25.13	***	100.39	75.26	1.40	0.00	Odor
DUP	Υ	1/4/22	12:48	***	***	***	***	***	***	***	***	Duplicate of MW-3R
Field Blank	Υ	1/4/22	14:15	***	***	***	***	***	***	***	***	Field Blank
Trip Blank	Υ	1/4/22	8:00	***	***	***	***	***	***	***	***	Trip Blank
											9.00	TOTAL GALLONS PURGED







Provided map is not legible enough for reproduction. Maps should be redigitized in future or more legible map should be located for future site work.

APPENDIX A: SAMPLING LOGS, LABORATORY DATA SHEETS, & CHAIN-OF-CUSTODY FORMS

Midlands Consultants, Inc. Field Personnel:

Sampling Date(s):

Monitoring Well Purge And Sampling Data

FMr. Ryder Terminal

Job Number: 21-7721

Calibration Data for:

Calibration Successful Yes or No (Please Circle)

pH: Conductivity:

No Yes No

ampling Case#:	d				-						Dissolved Turbidity:	l Óxvaen:	Yes Yes Calibrated Eve	No No ery 3 Months by	- -
Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp.	DO (mg/l)	Turbidity (NTU)	Depti product ini	n to (feet tial H₂O):		Water Height		s Purged	Notes
Mw-)	1st 2nd 3rd 4th 5th Sampling										31		oute,	actual	Stick- Well Damage (Bent)
MW-2	Initial 1st 2nd 3rd 4th 5th Sampling			173.9	20. 3	1. 54	19.01	3)	1.44		30 30	-			Odor
W-2D	1st 2nd 3rd 4th 5th Sampling	13:13 13:19 13:27	5.37 5.67 5.63 5.68	133.6 131.9 131.9	19.5 19.5 19.5	3.92 3.14 1.83	16.27 42.09 45.13 39.56 35.19 30.77	2(.74		50 - 55	J&.86	4.61 23.03	23.5	Slight
nw-3R	1st 2nd 3rd 4th 5th Sampling	12:48	3.45	132.6	17.6	1,95	33.95	3	5.17		33 53	_		Lid Replace unable to boltdown	Strong Odor DUP

**= One Well Volume x 5 = Gallons Purged (calculated)

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case#	Ph/Conductance SN	DO SN	Turbidity
Case #1	15H101448	17E101302	201301183
Case #2	15E101481	14H103098	201301174
Case #3	17E100512	17E103488	201510251

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	Midlands Environmental Consultants,

Monitoring Well Purge And Sampling Data

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ield Pers	onnel:	_55,	T	Ā

Sampling Date(s):

Sampling Case#:

1/4/2022

Job Name: FMr. Ryder Terminal Job Number: 21-7721

Calibration Data for :

Calibration Successful Yes or No (Please Circle)
pH:
Conductivity:

No
No

Dissolved Oxygen:

	Volume Initial	Time	6.59	cond(i)	(°C)	(mg/l)	Turbidity (NTU)	product	Depth to (fee	_ Well Depth	Water Height	Calibrated Eve Gallon **calc.	s Purged actual	Notes
Nw-4	2nd 3rd 4th 5th Sampling								24,04	30	_	,		Odor
NW-5	Initial 1st 2nd 3rd 4th 5th Sampling Initial	11:55	4.81	57.7	30.4	1.61	39.04		24.2 ⁷	19				040L No
hw-6	1st 2nd 3rd 4th 5th Sampling							a ^{3.48}	24. 8 0	19				FPP
Oepth of Well) - (Dep	1st 2nd 3rd 4th 5th Sampling	10:34	4.47	76.5	18.7	3.28	16.40		36.98	23				No

Casing Gallons 0.047 0.163 0.653 1.469

Sampling Case#	Ph/Conductance SN		
Case #1	15H101448	DO SN	Turbidity
Case #2	15E101481	17E101302	201301183
Case #3		14H103098	201301174
	17E100512		201510251
			2013102311

	Midlands		
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Monitoring Well Purge And Sampling Data

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ield	Personnel:		S	5	5	و	

Sampling Date(s):

Sampling Case#:

SS, TA

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		/	10	O	ನಿನ -
_	_				V-

Job Name: FMr. Ryder Terminal

Calibration Data for :

Calibration Successful Yes or No (Please Circle)
pH:
Conductivity:
No Dissolved Oxygen: Yes

Well No.	Purge Volume	Sample Time	pH(i)	cond(i)	Temp.	DO	Turbidity	Depth to (feet		Well Depth	Water Height			/ QA Manager
	Initial	10:44	4.42	43.7		(mg/l)	(NTU)	product initial H _z O	final H ₂ 0	(feet)	*(feet)	Gallons **calc.	Purged	Notes
	1st 2nd				00. 1	1.01	25.88					care,	actual	-
MW-8	3rd									20		_		No
0	4th			 				75			_		,	Odor
	5th							33.75					_	CAOL
	Sampling							0		30		_		
	Initial	12:06	4 2 2	2/1 0										
	1st		1.33	34.8	17.8	3.79	28.40							
^	2nd									20	1			
MW-9	3rd							28		20				No
	4th							2498			_			
	5th									20		_		0401
	Sampling									30				
	Initial	11:50	4.29	42.7	20.0	2 -								
^^	1st			70.7	0.00	5.30	27.03							
MW-10	2nd								ļ					
, (0	3rd							-6		20		-		No
-	4th							34.55		_	_			0 100
-	5th							0		2-				• • • • • • • • • • • • • • • • • • • •
	Sampling									30	-			
-		10:38	5.04	113.8	17.6	2.98	26.17							
-	1st 2nd					9.70	W.D.1/		1					
NW-11+	3rd							_ 04	-	20				N -
., 11	4th							23.29		V (~		No Open
-	5th									10	- -			
-	Sampling									30	1			
Depth of Well) - (Depth														

**= One Well Volume x 5 = Gallons Purged (calculated)

Casir 1"

2"

for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells		
sing Gallons	Sampling Case# Ph/Conductance SN Do SN Case#1 15H101448 17E101302	Turbidity 201301183
" 0.047 " 0.163 " 0.653	Case #3 17F100F12 17H103098	201301174 201510251
1.469		

12.2	Midlands	
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1		Inc.

Monitoring Well Purge And Sampling Data

	<u> </u>	- no an carri	-5, <u>I</u> n	
ield	Personnel:	55,	TA	

Job Name: FMr. Ryder Terminal

Calibration Data for : Calibration Successful 2 Yes or No (Please Circle)

1/4/2022 Sampling Date(s):

Job Number: 21-7721

No No

Well No.	Purge Volume	Sample	pH(i)	cond(i)	Temp.	DO	Turbidity	T			Turbidity	d Oxygen: Conductivity	Yes Calibrated Eve	No No ery 3 Months b	 Dy QA Manager
	Initial	12: 1 4	5.12	239.4	(°C)	(mg/l)	(NTU) 26.17	produc	Depth to (fe	et): final H ₂ 0	Well Death	Water Height		s Purged	Notes
	2nd	+	+			00	00.1/	1					0010.	actual	
NW-12	3rd	 				-		1			20				No
100-10	4th	-						1	-19	r	11_		-		
	5th	+	 					1	a4.79			_			0802
	Sampling	 									30			1	
	Initial	12.47	5.55								30				
	1st	13.76	2.35	168.0	19.7	1.23	27.56								
. 15	2nd														
NW-13	3rd										23				
()	4th								23.40		W >				040 t
	5th								d3.		_				010
	Sampling										33		_		- 107
	Initial	12:32	5 60	60.5							27	1			
	1st	<u> </u>	3.80	68.2	19.9	1.88	32.68		+						
A	2nd														-
1W-14	3rd										スス	}		•	No
((4th								33.49						
	5th								93.						0901
	Sampling										32	}			
İ	Initial										-50				
	1st														
1101-	2nd							23.90							
W-15	3rd							A	24.07		23				FPp
	4th 5th								34.0.	}	~				•
}															
	Sampling										33	1	j		DNS
epth of Well) - (Depi Vell Volume =x.047	h to Water ≈ v	Vater Height					olume x 5 = G								, , , ~

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

Sampling Case# Case #1	Ph/Conductance SN	DO SN	Turbidity
Case #2	15H101448 15E101481	17E101302	201301183
Case #3	17E100512	14H103098 17E103488	201301174
			E010102011

Midlands Environmental Consultants, Inc.

Monitoring Well Purge And Sampling Data

\sim	
ield Personnel:	SS, TA

Sampling Case#:

1/4/2022 Sampling Date(s):

Fmr. Ryder Terminal

Calibration Data for:

Calibration Successful 2 Yes or No (Please Circle) No

Conductivity: Dissolved Oxygen:

No No

Well No.	Purge Volume	Sample	pH(i)	cond(i)	Temp.	DO (mg/l)	Turbidity (NTU)	1	Depth to (f		Well Depth	Water Height	Calibrated Eve		y QA Manager
	1st	11:23	5.69	171.6		4.16	20.11	product	initial H ₂	O final H ₂ 0	(feet)	*(feet)	**calc.	Purged	Notes
	2nd	11:25	5.13	92.6	19.8	3.51	60.58	-						actual	
MW-16	3rd	11:32	4.89		30.2	3.32	73.90	7			24		1.72		51 ight
1.0	4th		4.75	80.1	30.5	3.24	65.39		33.45			10.55	· · · · · · · · · · · · ·	9	
	5th		4.68	80.8		3.10	67.40	1	93					1	0900
	Sampling	10	1.56	78.0	30.3	3.06	51.87				34		8.60		
ļ	Initial										'		0.00		
	1st														
10.	2nd										7-				
MW-17	3rd 4th							~ 2 80	24.21		25		j		FPP
	5th						 	43.0	37.01						
	Sampling								ĺ						
	Initial	Luc o o									35				DNS
-	1st	14:03	5.76	302.8	18.2	1.40	34.26								
10	2nd						3 7.46								-
Mw-18 -	3rd										25				
	4th								25.13	}	25		-		0100
	5th							-	g. J.		~	-			
	Sampling										2-		_		
DUP	Initial	12:48	00.1								35				
	1st		· · · · · · ·	P 5+	and again										
FB	2nd	4:15						ME	CI	GAC	14.				
_	3rd	1.17									/				
TB	4th 5th	8.00												ļ	
-	Sampling	0.00													
Depth of Well) - (Depth										1					

**= One Well Volume x 5 = Gallons Purged (calculated)

One Well Volume =x.047 for 1" wells * x .163 for 2" wells, or * x .66 for 4" wells, 1.469 for 6" wells

Casing	Gallons
1"	0.047
2"	0.163
4"	0.653
6"	1.469

			i
Case #1 Case #2 Case #3	Ph/Conductance SN 15H101448 15E101481 17E100512	14H103098	Turbidity 201301183 201301174 201510251





January 12, 2022

Robert Dunn SCDHEC 2600 Bull St Columbia, SC 29201

RE: Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Dear Robert Dunn:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lindsey N Wooten

lindsey.wooten@pacelabs.com

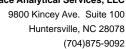
(704)875-9092 Project Manager

Enclosures

cc: Jeff Coleman, Midlands Environmental Consultants, Inc. Kyle Pudney, Midlands Environmental Consultants, Inc.

Matt Wykel, SCDHEC







CERTIFICATIONS

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84

North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029

South Carolina Laboratory ID: 99006 Virginia/VELAP Certification #: 460221



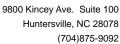


SAMPLE SUMMARY

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92581222001	MW-2	Water	01/04/22 13:55	01/05/22 11:10
92581222002	MW-2D	Water	01/04/22 13:27	01/05/22 11:10
92581222003	MW-3R	Water	01/04/22 12:48	01/05/22 11:10
92581222004	MW-4	Water	01/04/22 11:18	01/05/22 11:10
92581222005	MW-5	Water	01/04/22 11:55	01/05/22 11:10
92581222006	MW-7	Water	01/04/22 10:34	01/05/22 11:10
92581222007	MW-8	Water	01/04/22 10:44	01/05/22 11:10
92581222008	MW-9	Water	01/04/22 12:06	01/05/22 11:10
92581222009	MW-10	Water	01/04/22 11:50	01/05/22 11:10
92581222010	MW-11	Water	01/04/22 10:28	01/05/22 11:10
92581222011	MW-12	Water	01/04/22 12:14	01/05/22 11:10
92581222012	MW-13	Water	01/04/22 13:46	01/05/22 11:10
92581222013	MW-14	Water	01/04/22 12:32	01/05/22 11:10
92581222014	MW-16	Water	01/04/22 11:40	01/05/22 11:10
92581222015	MW-18	Water	01/04/22 14:03	01/05/22 11:10
92581222016	DUP	Water	01/04/22 00:00	01/05/22 11:10
92581222017	FB	Water	01/04/22 14:15	01/05/22 11:10
92581222018	ТВ	Water	01/04/22 08:00	01/05/22 11:10





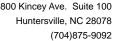
SAMPLE ANALYTE COUNT

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92581222001	MW-2	EPA 8011	—— ——— HH	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222002	MW-2D	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222003	MW-3R	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222004	MW-4	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222005	MW-5	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222006	MW-7	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222007	MW-8	EPA 8011	НН	2	PASI-C
		EPA 8260D	CL	20	PASI-C
92581222008	MW-9	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222009	MW-10	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222010	MW-11	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222011	MW-12	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222012	MW-13	EPA 8011	НН	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92581222013	MW-14	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222014	MW-16	EPA 8011	НН	2	PASI-C
		EPA 8260D	BSH	20	PASI-C
92581222015	MW-18	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222016	DUP	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222017	FB	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C
92581222018	тв	EPA 8260D	NSCQ	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte



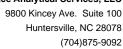


SUMMARY OF DETECTION

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92581222001	MW-2					
EPA 8260D	Benzene	25.5	ug/L	5.0	01/06/22 21:23	
EPA 8260D	Naphthalene	110	ug/L	5.0	01/06/22 21:23	M1
EPA 8260D	o-Xylene	5.0J	ug/L	5.0	01/06/22 21:23	
2581222002	MW-2D					
EPA 8260D	Benzene	2.3J	ug/L	5.0	01/06/22 21:05	
2581222003	MW-3R					
EPA 8260D	Benzene	2.0J	ug/L	5.0	01/07/22 07:39	C8
EPA 8260D	Naphthalene	11.6	ug/L	5.0	01/07/22 07:39	
92581222004	MW-4					
EPA 8260D	Naphthalene	68.8	ug/L	5.0	01/07/22 07:03	
2581222012	MW-13					
EPA 8011	1,2-Dibromoethane (EDB)	0.057	ug/L	0.020	01/07/22 19:01	
EPA 8260D	Benzene	18.3	ug/L	10.0	01/10/22 19:36	
EPA 8260D	Naphthalene	219	ug/L	10.0	01/10/22 19:36	
EPA 8260D	Xylene (Total)	61.2	ug/L	10.0	01/10/22 19:36	
EPA 8260D	m&p-Xylene	12.4J	ug/L	20.0	01/10/22 19:36	
EPA 8260D	o-Xylene	48.8	ug/L	10.0	01/10/22 19:36	
2581222013	MW-14					
EPA 8260D	Ethylbenzene	3.1J	ug/L	5.0	01/07/22 07:57	
2581222015	MW-18					
EPA 8260D	Benzene	76.4	ug/L	5.0	01/07/22 08:34	
EPA 8260D	Ethylbenzene	5.6	ug/L	5.0	01/07/22 08:34	
EPA 8260D	Naphthalene	191	ug/L	5.0	01/07/22 08:34	
EPA 8260D	Xylene (Total)	19.6	ug/L	5.0	01/07/22 08:34	
EPA 8260D	m&p-Xylene	7.1J	ug/L	10.0	01/07/22 08:34	
EPA 8260D	o-Xylene	12.5	ug/L	5.0	01/07/22 08:34	
2581222016	DUP					
EPA 8260D	Benzene	1.9J	ug/L	5.0	01/07/22 10:23	
EPA 8260D	Naphthalene	11.0	ug/L	5.0	01/07/22 10:23	





PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Method: EPA 8011

Description: 8011 GCS EDB and DBCP

Client: SCDHEC

Date: January 12, 2022

General Information:

17 samples were analyzed for EPA 8011 by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8011 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

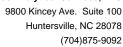
Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:





PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Method: EPA 8260D
Description: 8260 MSV
Client: SCDHEC
Date: January 12, 2022

General Information:

18 samples were analyzed for EPA 8260D by Pace Analytical Services Charlotte. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

QC Batch: 670825

v1: The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the associated samples may have a high bias.

- MS (Lab ID: 3512569)
 - tert-Butyl Formate
- MSD (Lab ID: 3512570)
 - tert-Butyl Formate

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: 670148

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581222001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 3508738)
 - Naphthalene



9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Method: EPA 8260D
Description: 8260 MSV
Client: SCDHEC
Date: January 12, 2022

QC Batch: 670191

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581242001

R1: RPD value was outside control limits.

MSD (Lab ID: 3509077)tert-Butyl Formate

QC Batch: 670203

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581258017

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3509159)
 - Benzene
 - Ethylbenzene
 - Naphthalene
 - Toluene
 - m&p-Xylene
 - o-Xylene
- MSD (Lab ID: 3509160)
 - Benzene
 - Ethylbenzene
 - Naphthalene
 - Toluene
 - m&p-Xylene
 - o-Xylene

R1: RPD value was outside control limits.

- MSD (Lab ID: 3509160)
 - tert-Butyl Formate

QC Batch: 670825

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 92581711002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 3512569)
 - Benzene
 - Methyl-tert-butyl ether
- MSD (Lab ID: 3512570)
 - Benzene
 - · Methyl-tert-butyl ether

Additional Comments:

Analyte Comments:

QC Batch: 670191

C8: Result may be biased high due to carryover from previously analyzed sample.

- MW-3R (Lab ID: 92581222003)
 - Benzene



PROJECT NARRATIVE

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Method:EPA 8260DDescription:8260 MSVClient:SCDHECDate:January 12, 2022

Analyte Comments: QC Batch: 670825

E: Analyte concentration exceeded the calibration range. The reported result is estimated.

• MS (Lab ID: 3512569)

• Benzene

• MSD (Lab ID: 3512570)

• Benzene

This data package has been reviewed for quality and completeness and is approved for release.



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-2	Lab ID:	92581222001	Collected	d: 01/04/22	13:55	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA 8	011 Prepar	ation Metho	od: EPA	x 8011			
	Pace Anal	ytical Services	- Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0072	1	01/07/22 09:55	01/07/22 16:33	106-93-4	
Surrogates 1-Chloro-2-bromopropane (S)	106	%	60-140		1	01/07/22 09:55	01/07/22 16:33	301-79-56	
3260 MSV	Analytical	Method: EPA 8	260D						
	Pace Anal	ytical Services	- Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/06/22 21:23	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/06/22 21:23	994-05-8	
Benzene	25.5	ug/L	5.0	1.7	1		01/06/22 21:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/06/22 21:23	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/06/22 21:23	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/06/22 21:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/06/22 21:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/06/22 21:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/06/22 21:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/06/22 21:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/06/22 21:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/06/22 21:23	1634-04-4	
Naphthalene	110	ug/L	5.0	2.1	1		01/06/22 21:23	91-20-3	M1
Toluene	ND	ug/L	5.0	2.0	1		01/06/22 21:23	108-88-3	
(Ylene (Total)	ND	ug/L	5.0	5.0	1		01/06/22 21:23	1330-20-7	
n&p-Xylene	ND	ug/L	10.0	4.1	1		01/06/22 21:23	179601-23-1	
o-Xylene	5.0J	ug/L	5.0	2.0	1		01/06/22 21:23	95-47-6	
Surrogates									
I-Bromofluorobenzene (S)	100	%	70-130		1		01/06/22 21:23	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/06/22 21:23	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/06/22 21:23	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-2D	Lab ID:	92581222002	2 Collected	d: 01/04/22	2 13:27	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	A 8011			
	Pace Anal	ytical Service	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 16:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	01/07/22 09:55	01/07/22 16:54	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Service	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/06/22 21:05	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/06/22 21:05	994-05-8	
Benzene	2.3J	ug/L	5.0	1.7	1		01/06/22 21:05	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/06/22 21:05	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/06/22 21:05	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/06/22 21:05	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/06/22 21:05	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/06/22 21:05	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/06/22 21:05	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/06/22 21:05	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/06/22 21:05	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/06/22 21:05	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/06/22 21:05	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/06/22 21:05	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/06/22 21:05	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/06/22 21:05	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/06/22 21:05	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	98	%	70-130		1		01/06/22 21:05	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		01/06/22 21:05	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/06/22 21:05	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-3R	Lab ID:	92581222003	Collected	01/04/22	2 12:48	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP		Method: EPA &		ation Metho	od: EPA	8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 17:26	106-93-4	
1-Chloro-2-bromopropane (S)	97	%	60-140		1	01/07/22 09:55	01/07/22 17:26	301-79-56	
8260 MSV	,	Method: EPA 8 ytical Services							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:39	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:39	994-05-8	
Benzene	2.0J	ug/L	5.0	1.7	1		01/07/22 07:39	71-43-2	C8
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:39	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 07:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:39	1634-04-4	
Naphthalene	11.6	ug/L	5.0	2.1	1		01/07/22 07:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:39	179601-23-1	
o-Xylene Surrogates	ND	ug/L	5.0	2.0	1		01/07/22 07:39	95-47-6	
Surrogates 4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 07:39	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		01/07/22 07:39		
Toluene-d8 (S)	103	%	70-130		1		01/07/22 07:39		



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-4	Lab ID:	9258122200	4 Collected	d: 01/04/22	2 11:18	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	A 8011			
	Pace Anal	ytical Service	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 17:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	94	%	60-140		1	01/07/22 09:55	01/07/22 17:37	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Service	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 07:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:03	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 07:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:03	1634-04-4	
Naphthalene	68.8	ug/L	5.0	2.1	1		01/07/22 07:03	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:03	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:03	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:03	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 07:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 07:03		
Toluene-d8 (S)	103	%	70-130		1		01/07/22 07:03	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-5	Lab ID:	92581222005	Collected	I: 01/04/22	11:55	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	•	Method: EPA 8 lytical Services	•	ation Metho	od: EPA	x 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 17:47	106-93-4	
1-Chloro-2-bromopropane (S)	83	%	60-140		1	01/07/22 09:55	01/07/22 17:47	301-79-56	
8260 MSV	Analytical	Method: EPA 8	260D						
	Pace Anal	lytical Services	- Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 12:30	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 12:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 12:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 12:30	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 12:30	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 12:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 12:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 12:30	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 12:30	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 12:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 12:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 12:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 12:30	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 12:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 12:30	1330-20-7	
n&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 12:30	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 12:30	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 12:30	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 12:30	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/07/22 12:30	2037-26-5	



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Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-7	Lab ID:	92581222006	6 Collected	l: 01/04/22	2 10:34	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	A 8011			
	Pace Anal	ytical Services	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 17:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	01/07/22 09:55	01/07/22 17:58	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Services	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 11:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 11:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 11:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 11:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 11:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 11:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 11:53	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 11:53	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 11:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 11:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 11:53	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 11:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 11:53	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 11:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 11:53	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 11:53	179601-23-1	
p-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 11:53	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 11:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		01/07/22 11:53	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		01/07/22 11:53	2037-26-5	



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Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-8	Lab ID:	92581222007	Collected	: 01/04/22	2 10:44	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	-	Method: EPA to the strain of t		ation Metho	od: EPA	X 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 18:08	106-93-4	
1-Chloro-2-bromopropane (S)	88	%	60-140		1	01/07/22 09:55	01/07/22 18:08	301-79-56	
8260 MSV	,	Method: EPA 8							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:40	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 07:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:40	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:40	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:40	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 07:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 07:40	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:40	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:40	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:40	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		01/07/22 07:40		
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		01/07/22 07:40		
Toluene-d8 (S)	99	%	70-130		1		01/07/22 07:40	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-9	Lab ID:	92581222008	Collected	l: 01/04/22	2 12:06	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	-	Method: EPA 8 ytical Services		ation Metho	od: EPA	X 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 18:19	106-93-4	
1-Chloro-2-bromopropane (S)	95	%	60-140		1	01/07/22 09:55	01/07/22 18:19	301-79-56	
8260 MSV	•	Method: EPA 8 ytical Services							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 11:17	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 11:17	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 11:17	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 11:17	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 11:17	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 11:17		
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 11:17	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 11:17	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 11:17	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 11:17	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 11:17	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 11:17	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 11:17	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 11:17	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 11:17	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 11:17	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 11:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/07/22 11:17		
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 11:17		
Toluene-d8 (S)	102	%	70-130		1		01/07/22 11:17	2037-26-5	





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-10	Lab ID:	9258122200	9 Collected	d: 01/04/22	2 11:50	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	A 8011			
	Pace Anal	ytical Service	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0068	1	01/07/22 09:55	01/07/22 18:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	01/07/22 09:55	01/07/22 18:30	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Service	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 12:12	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 12:12	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 12:12	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 12:12	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 12:12	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 12:12	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 12:12	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 12:12	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 12:12	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 12:12	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 12:12	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 12:12	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 12:12	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 12:12	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 12:12	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 12:12	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 12:12	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 12:12	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 12:12	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 12:12	2037-26-5	

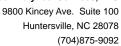


Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-11	Lab ID:	9258122201	Collected	d: 01/04/22	2 10:28	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	A 8011			
	Pace Anal	ytical Service	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 18:40	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	01/07/22 09:55	01/07/22 18:40	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Service	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 09:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 09:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 09:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 09:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 09:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 09:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 09:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 09:10	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 09:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 09:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 09:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 09:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 09:10	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 09:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 09:10	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 09:10	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 09:10	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 09:10	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 09:10	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 09:10	2037-26-5	



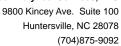


Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-12	Lab ID:	92581222011	Collected	l: 01/04/22	2 12:14	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	-	Method: EPA { ytical Services		ation Metho	od: EPA	X 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 18:51	106-93-4	
1-Chloro-2-bromopropane (S)	83	%	60-140		1	01/07/22 09:55	01/07/22 18:51	301-79-56	
8260 MSV	,	Method: EPA 8 ytical Services							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 11:35	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 11:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 11:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 11:35	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 11:35	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 11:35	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 11:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 11:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 11:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 11:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 11:35	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 11:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 11:35	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 11:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 11:35	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 11:35	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 11:35	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 11:35		
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 11:35		
Toluene-d8 (S)	104	%	70-130		1		01/07/22 11:35	2037-26-5	





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-13	Lab ID:	92581222012	Collected	l: 01/04/22	2 13:46	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	-	Method: EPA 8 ytical Services		ation Metho	od: EPA	X 8011			
1,2-Dibromoethane (EDB) Surrogates	0.057	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 19:01	106-93-4	
1-Chloro-2-bromopropane (S)	103	%	60-140		1	01/07/22 09:55	01/07/22 19:01	301-79-56	
8260 MSV	•	Method: EPA { ytical Services							
tert-Amyl Alcohol	ND	ug/L	200	131	2		01/10/22 19:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		01/10/22 19:36	994-05-8	
Benzene	18.3	ug/L	10.0	3.5	2		01/10/22 19:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		01/10/22 19:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		01/10/22 19:36	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		01/10/22 19:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		01/10/22 19:36	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		01/10/22 19:36	108-20-3	
Ethanol	ND	ug/L	400	288	2		01/10/22 19:36	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.7	2		01/10/22 19:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		01/10/22 19:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		01/10/22 19:36	1634-04-4	
Naphthalene	219	ug/L	10.0	4.2	2		01/10/22 19:36	91-20-3	
Toluene	ND	ug/L	10.0	4.0	2		01/10/22 19:36	108-88-3	
Xylene (Total)	61.2	ug/L	10.0	10.0	2		01/10/22 19:36	1330-20-7	
m&p-Xylene	12.4J	ug/L	20.0	8.2	2		01/10/22 19:36	179601-23-1	
o-Xylene	48.8	ug/L	10.0	4.1	2		01/10/22 19:36	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		01/10/22 19:36		
1,2-Dichloroethane-d4 (S)	90	%	70-130		2		01/10/22 19:36		
Toluene-d8 (S)	104	%	70-130		2		01/10/22 19:36	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-14	Lab ID:	92581222013	Collected	l: 01/04/22	2 12:32	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	-	Method: EPA 8 ytical Services		ation Metho	od: EPA	x 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0071	1	01/07/22 09:55	01/07/22 19:12	106-93-4	
1-Chloro-2-bromopropane (S)	122	%	60-140		1	01/07/22 09:55	01/07/22 19:12	301-79-56	
8260 MSV	•	Method: EPA 8 ytical Services							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 07:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 07:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 07:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 07:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 07:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 07:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 07:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 07:57	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 07:57	64-17-5	
Ethylbenzene	3.1J	ug/L	5.0	1.8	1		01/07/22 07:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 07:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 07:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 07:57	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 07:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 07:57	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 07:57	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 07:57	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/07/22 07:57		
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 07:57		
Toluene-d8 (S)	103	%	70-130		1		01/07/22 07:57	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-16	Lab ID:	92581222014	Collected	l: 01/04/22	2 11:40	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	-	Method: EPA 8 ytical Services		ation Metho	od: EPA	X 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.020	0.0069	1	01/07/22 09:55	01/07/22 19:22	106-93-4	
1-Chloro-2-bromopropane (S)	82	%	60-140		1	01/07/22 09:55	01/07/22 19:22	301-79-56	
8260 MSV	,	Method: EPA 8 ytical Services							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/10/22 16:37	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/10/22 16:37	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/10/22 16:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/10/22 16:37	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/10/22 16:37	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/10/22 16:37	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/10/22 16:37	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/10/22 16:37	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/10/22 16:37	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/10/22 16:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/10/22 16:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/10/22 16:37	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/10/22 16:37	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/10/22 16:37	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/10/22 16:37	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/10/22 16:37	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/10/22 16:37	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		01/10/22 16:37		
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		01/10/22 16:37		
Toluene-d8 (S)	108	%	70-130		1		01/10/22 16:37	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: MW-18	Lab ID:	92581222015	Collected	l: 01/04/22	2 14:03	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	x 8011			
	Pace Anal	ytical Services	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 19:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	01/07/22 09:55	01/07/22 19:33	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Services	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 08:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 08:34	994-05-8	
Benzene	76.4	ug/L	5.0	1.7	1		01/07/22 08:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 08:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 08:34	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 08:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 08:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 08:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 08:34	64-17-5	
Ethylbenzene	5.6	ug/L	5.0	1.8	1		01/07/22 08:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 08:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 08:34	1634-04-4	
Naphthalene	191	ug/L	5.0	2.1	1		01/07/22 08:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 08:34	108-88-3	
Xylene (Total)	19.6	ug/L	5.0	5.0	1		01/07/22 08:34	1330-20-7	
m&p-Xylene	7.1J	ug/L	10.0	4.1	1		01/07/22 08:34	179601-23-1	
o-Xylene	12.5	ug/L	5.0	2.0	1		01/07/22 08:34	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	102	%	70-130		1		01/07/22 08:34	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		01/07/22 08:34	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/07/22 08:34	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: DUP	Lab ID:	92581222016	Collected	l: 01/04/22	2 00:00	Received: 01/	05/22 11:10 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP		Method: EPA 8 ytical Services		ation Metho	od: EPA	X 8011			
1,2-Dibromoethane (EDB) Surrogates	ND	ug/L	0.021	0.0073	1	01/07/22 09:55	01/07/22 19:44	106-93-4	
1-Chloro-2-bromopropane (S)	84	%	60-140		1	01/07/22 09:55	01/07/22 19:44	301-79-56	
8260 MSV	,	Method: EPA 8 ytical Services							
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 10:23	75-85-4	
ert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 10:23	994-05-8	
Benzene	1.9J	ug/L	5.0	1.7	1		01/07/22 10:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 10:23	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 10:23	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 10:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 10:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 10:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 10:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 10:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 10:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 10:23	1634-04-4	
Naphthalene	11.0	ug/L	5.0	2.1	1		01/07/22 10:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 10:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 10:23	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 10:23	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 10:23	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		01/07/22 10:23		
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		01/07/22 10:23		
Toluene-d8 (S)	104	%	70-130		1		01/07/22 10:23	2037-26-5	



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: FB	Lab ID:	92581222017	Collected	l: 01/04/22	2 14:15	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	x 8011			
	Pace Anal	ytical Services	- Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 19:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	01/07/22 09:55	01/07/22 19:54	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Services	- Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 03:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 03:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 03:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 03:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 03:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 03:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 03:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 03:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 03:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 03:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 03:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 03:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 03:43	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 03:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 03:43	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 03:43	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 03:43	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	100	%	70-130		1		01/07/22 03:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		01/07/22 03:43	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 03:43	2037-26-5	

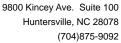


Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Sample: TB	Lab ID:	92581222018	Collected	d: 01/04/22	08:00	Received: 01	/05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260D						
	Pace Anal	ytical Services	- Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/06/22 15:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/06/22 15:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/06/22 15:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/06/22 15:39	624-95-3	
ert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/06/22 15:39	75-65-0	
ert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/06/22 15:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/06/22 15:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/06/22 15:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/06/22 15:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/06/22 15:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/06/22 15:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/06/22 15:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/06/22 15:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/06/22 15:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/06/22 15:39	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/06/22 15:39	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/06/22 15:39	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		01/06/22 15:39	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	70-130		1		01/06/22 15:39	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		01/06/22 15:39	2037-26-5	





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

QC Batch: 670148 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581222001, 92581222002, 92581222018

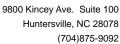
METHOD BLANK: 3508735 Matrix: Water

Associated Lab Samples: 92581222001, 92581222002, 92581222018

7 tooodiated Eab Campico. 9230	71222001, 92301222002	2, 92301222010				
		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/06/22 15:02	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/06/22 15:02	
Benzene	ug/L	ND	5.0	1.7	01/06/22 15:02	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/06/22 15:02	
Ethanol	ug/L	ND	200	144	01/06/22 15:02	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/06/22 15:02	
Ethylbenzene	ug/L	ND	5.0	1.8	01/06/22 15:02	
m&p-Xylene	ug/L	ND	10.0	4.1	01/06/22 15:02	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/06/22 15:02	
Naphthalene	ug/L	ND	5.0	2.1	01/06/22 15:02	
o-Xylene	ug/L	ND	5.0	2.0	01/06/22 15:02	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/06/22 15:02	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/06/22 15:02	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/06/22 15:02	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/06/22 15:02	
Toluene	ug/L	ND	5.0	2.0	01/06/22 15:02	
Xylene (Total)	ug/L	ND	5.0	5.0	01/06/22 15:02	
1,2-Dichloroethane-d4 (S)	%	108	70-130		01/06/22 15:02	
4-Bromofluorobenzene (S)	%	102	70-130		01/06/22 15:02	
Toluene-d8 (S)	%	103	70-130		01/06/22 15:02	

LABORATORY CONTROL SAMPLE:	3508736					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.2	102	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	49.9	100	70-130	
Diisopropyl ether	ug/L	50	52.9	106	70-130	
Ethanol	ug/L	2000	2300	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	108	108	70-130	
Ethylbenzene	ug/L	50	50.6	101	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	53.9	108	70-130	
Naphthalene	ug/L	50	55.9	112	70-130	
o-Xylene	ug/L	50	52.6	105	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	544	109	70-130	
tert-Butyl Formate	ug/L	400	449	112	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





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70-130

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Toluene-d8 (S)

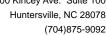
Date: 01/12/2022 03:00 PM

LABORATORY CONTROL SAMPLE: 3508736 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Toluene ug/L 50 49.8 100 70-130 Xylene (Total) ug/L 150 156 104 70-130 1,2-Dichloroethane-d4 (S) % 93 70-130 4-Bromofluorobenzene (S) % 103 70-130

%

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 3508	737		3508738							
			MS	MSD								
	9	2581222001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	18.2	17.1	91	86	70-137	6	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	488	470	122	118	39-157	4	30	
Benzene	ug/L	25.5	20	20	41.6	41.4	80	79	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	17.0	16.1	85	80	63-144	6	30	
Ethanol	ug/L	ND	800	800	701	662	88	83	39-176	6	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.1	33.1	88	83	66-137	6	30	
Ethylbenzene	ug/L	ND	20	20	25.5	25.0	128	125	66-153	2	30	
m&p-Xylene	ug/L	ND	40	40	50.2	49.2	126	123	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.0	16.8	90	84	54-156	6	30	
Naphthalene	ug/L	110	20	20	137	154	139	220	61-148	11	30	M1
o-Xylene	ug/L	5.0J	20	20	28.9	29.0	120	120	70-148	0	30	
tert-Amyl Alcohol	ug/L	ND	400	400	380	355	95	89	54-153	7	30	
tert-Amylmethyl ether	ug/L	ND	40	40	37.9	36.2	95	90	69-139	5	30	
tert-Butyl Alcohol	ug/L	ND	200	200	204	196	96	92	43-188	4	30	
tert-Butyl Formate	ug/L	ND	160	160	68.7	47.5J	43	30	10-170		30	
Toluene	ug/L	ND	20	20	20.2	19.7	101	99	59-148	2	30	
Xylene (Total)	ug/L	ND	60	60	79.1	78.2	124	122	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						97	95	70-130			
4-Bromofluorobenzene (S)	%						96	95	70-130			
Toluene-d8 (S)	%						95	94	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

QC Batch: 670191 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581222003, 92581222004, 92581222010, 92581222013, 92581222015, 92581222017

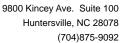
METHOD BLANK: 3509074 Matrix: Water

Associated Lab Samples: 92581222003, 92581222004, 92581222010, 92581222013, 92581222015, 92581222017

	•	Blank	Reporting	,		
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND ND	5.0	2.1	01/07/22 03:07	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 03:07	
Benzene	ug/L	ND	5.0	1.7	01/07/22 03:07	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 03:07	
Ethanol	ug/L	ND	200	144	01/07/22 03:07	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 03:07	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 03:07	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 03:07	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 03:07	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 03:07	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 03:07	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 03:07	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 03:07	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 03:07	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 03:07	
Toluene	ug/L	ND	5.0	2.0	01/07/22 03:07	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 03:07	
1,2-Dichloroethane-d4 (S)	%	96	70-130		01/07/22 03:07	
4-Bromofluorobenzene (S)	%	100	70-130		01/07/22 03:07	
Toluene-d8 (S)	%	103	70-130		01/07/22 03:07	

LABORATORY CONTROL SAMPLE:	3509075					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.3	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1080	108	70-130	
Benzene	ug/L	50	52.2	104	70-130	
Diisopropyl ether	ug/L	50	54.4	109	70-130	
Ethanol	ug/L	2000	2320	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Naphthalene	ug/L	50	55.2	110	70-130	
o-Xylene	ug/L	50	52.1	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	542	108	70-130	
tert-Butyl Formate	ug/L	400	439	110	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

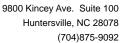
Date: 01/12/2022 03:00 PM

LABORATORY CONTROL SAMPLE: 3509075

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L	50	51.2	102	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			93	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	CATE: 3509	076		3509077							
			MS	MSD								
	9	2581242001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	16.2	15.7	81	78	70-137	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	460	459	115	115	39-157	0	30	
Benzene	ug/L	ND	20	20	18.3	18.3	92	91	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	15.5	14.8	77	74	63-144	5	30	
Ethanol	ug/L	ND	800	800	613	612	77	77	39-176	0	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	31.6	30.6	79	77	66-137	3	30	
Ethylbenzene	ug/L	ND	20	20	24.3	24.1	121	120	66-153	1	30	
m&p-Xylene	ug/L	ND	40	40	48.0	47.8	120	120	69-152	0	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.9	15.3	80	77	54-156	4	30	
Naphthalene	ug/L	ND	20	20	25.7	24.7	126	121	61-148	4	30	
o-Xylene	ug/L	ND	20	20	23.6	23.5	118	117	70-148	0	30	
tert-Amyl Alcohol	ug/L	ND	400	400	349	340	87	85	54-153	3	30	
tert-Amylmethyl ether	ug/L	ND	40	40	35.2	34.5	88	86	69-139	2	30	
tert-Butyl Alcohol	ug/L	ND	200	200	178	160	89	80	43-188	11	30	
tert-Butyl Formate	ug/L	ND	160	160	56.7	77.9	35	49	10-170	31	30	R1
Toluene	ug/L	ND	20	20	18.7	18.6	94	93	59-148	1	30	
Xylene (Total)	ug/L	ND	60	60	71.6	71.3	119	119	63-158	0	30	
1,2-Dichloroethane-d4 (S)	%						99	94	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						94	94	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

QC Batch: 670193 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581222005, 92581222006, 92581222008, 92581222009, 92581222011, 92581222016

METHOD BLANK: 3509090 Matrix: Water

Associated Lab Samples: 92581222005, 92581222006, 92581222008, 92581222009, 92581222011, 92581222016

	•	Blank	Reporting	,		
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/07/22 03:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 03:25	
Benzene	ug/L	ND	5.0	1.7	01/07/22 03:25	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 03:25	
Ethanol	ug/L	ND	200	144	01/07/22 03:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 03:25	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 03:25	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 03:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 03:25	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 03:25	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 03:25	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 03:25	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 03:25	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 03:25	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 03:25	
Toluene	ug/L	ND	5.0	2.0	01/07/22 03:25	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 03:25	
1,2-Dichloroethane-d4 (S)	%	100	70-130		01/07/22 03:25	
4-Bromofluorobenzene (S)	%	100	70-130		01/07/22 03:25	
Toluene-d8 (S)	%	103	70-130		01/07/22 03:25	

LABORATORY CONTROL SAMPLE:	3509091					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.2	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	2310	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Naphthalene	ug/L	50	55.0	110	70-130	
o-Xylene	ug/L	50	50.9	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	546	109	70-130	
tert-Butyl Formate	ug/L	400	444	111	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 11929/64473 Former Ryder Termi

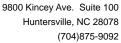
Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

LABORATORY CONTROL SAMPLI	E: 3509091					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Toluene	ug/L	50	50.6	101	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 3509	092		3509093							
			MS	MSD								
	9	2581222005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	15.7	15.5	79	78	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	434	421	108	105	39-157	3	30	
Benzene	ug/L	ND	20	20	18.2	18.2	91	91	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	14.9	14.9	74	74	63-144	0	30	
Ethanol	ug/L	ND	800	800	591	570	74	71	39-176	4	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	30.5	30.2	76	75	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	23.7	23.7	119	118	66-153	0	30	
m&p-Xylene	ug/L	ND	40	40	48.0	47.3	120	118	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.4	15.1	77	75	54-156	2	30	
Naphthalene	ug/L	ND	20	20	24.7	24.6	124	123	61-148	0	30	
o-Xylene	ug/L	ND	20	20	23.9	22.9	119	115	70-148	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	329	313	82	78	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40	40	33.9	33.5	85	84	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	200	200	170	167	85	83	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	36.9J	27.9J	23	17	10-170		30	
Toluene	ug/L	ND	20	20	18.4	18.4	92	92	59-148	0	30	
Xylene (Total)	ug/L	ND	60	60	71.9	70.2	120	117	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						94	95	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

QC Batch: 670203 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581222007

METHOD BLANK: 3509157 Matrix: Water

Associated Lab Samples: 92581222007

•		Blank	Reporting				
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers	
1,2-Dichloroethane	 ug/L	ND	5.0	2.1	01/07/22 00:01		
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 00:01		
Benzene	ug/L	ND	5.0	1.7	01/07/22 00:01		
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 00:01		
Ethanol	ug/L	ND	200	144	01/07/22 00:01		
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 00:01		
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 00:01		
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 00:01		
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 00:01		
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 00:01		
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 00:01		
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 00:01		
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 00:01		
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 00:01		
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 00:01		
Toluene	ug/L	ND	5.0	2.0	01/07/22 00:01		
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 00:01		
1,2-Dichloroethane-d4 (S)	%	95	70-130		01/07/22 00:01		
4-Bromofluorobenzene (S)	%	95	70-130		01/07/22 00:01		
Toluene-d8 (S)	%	99	70-130		01/07/22 00:01		

LABORATORY CONTROL SAMPLE:	3509158					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.8	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1170	117	70-130	
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	50.6	101	70-130	
Ethanol	ug/L	2000	1880	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	107	107	70-130	
Ethylbenzene	ug/L	50	52.0	104	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	49.7	99	70-130	
Naphthalene	ug/L	50	55.8	112	70-130	
o-Xylene	ug/L	50	53.1	106	70-130	
tert-Amyl Alcohol	ug/L	1000	1040	104	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	515	103	70-130	
tert-Butyl Formate	ug/L	400	433	108	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

LABORATORY CONTROL SAMPLE: 3509158 Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers Toluene ug/L 50 50.4 101 70-130 Xylene (Total) ug/L 150 160 106 70-130 1,2-Dichloroethane-d4 (S) % 97 70-130 4-Bromofluorobenzene (S) % 97 70-130 Toluene-d8 (S) % 99 70-130

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	CATE: 3509	159		3509160	1						
			MS	MSD								
	9	2581258017	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	19.8	19.4	99	97	70-137	2	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	424	392	106	98	39-157	8	30	
Benzene	ug/L	ND	20	20	12.0	12.4	60	62	70-151	3	30	M1
Diisopropyl ether	ug/L	ND	20	20	17.2	17.2	86	86	63-144	0	30	
Ethanol	ug/L	ND	800	800	837	780	105	98	39-176	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	39.3	39.6	98	99	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	4.8J	3.6J	24	18	66-153		30	M1
m&p-Xylene	ug/L	ND	40	40	7.3J	5.7J	18	14	69-152		30	M1
Methyl-tert-butyl ether	ug/L	ND	20	20	20.0	19.5	100	98	54-156	2	30	
Naphthalene	ug/L	ND	20	20	3.8J	ND	19	5	61-148		30	M1
o-Xylene	ug/L	ND	20	20	3.1J	2.5J	15	13	70-148		30	M1
tert-Amyl Alcohol	ug/L	ND	400	400	397	384	99	96	54-153	3	30	
tert-Amylmethyl ether	ug/L	ND	40	40	33.2	34.1	83	85	69-139	3	30	
tert-Butyl Alcohol	ug/L	ND	200	200	234	234	117	117	43-188	0	30	
tert-Butyl Formate	ug/L	ND	160	160	122	89.1	77	56	10-170	32	30	R1
Toluene	ug/L	ND	20	20	5.2	4.4J	26	22	59-148		30	M1
Xylene (Total)	ug/L	ND	60	60	ND	ND	0	0	63-158		30	MS
1,2-Dichloroethane-d4 (S)	%						100	98	70-130			
4-Bromofluorobenzene (S)	%						71	89	70-130			
Toluene-d8 (S)	%						94	96	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

QC Batch: 670825 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581222012, 92581222014

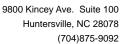
METHOD BLANK: 3512567 Matrix: Water

Associated Lab Samples: 92581222012, 92581222014

·	0200.2220.2, 0200.2220	Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	 ug/L	ND	5.0	2.1	01/10/22 13:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/10/22 13:45	
Benzene	ug/L	ND	5.0	1.7	01/10/22 13:45	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/10/22 13:45	
Ethanol	ug/L	ND	200	144	01/10/22 13:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/10/22 13:45	
Ethylbenzene	ug/L	ND	5.0	1.8	01/10/22 13:45	
m&p-Xylene	ug/L	ND	10.0	4.1	01/10/22 13:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/10/22 13:45	
Naphthalene	ug/L	ND	5.0	2.1	01/10/22 13:45	
o-Xylene	ug/L	ND	5.0	2.0	01/10/22 13:45	
ert-Amyl Alcohol	ug/L	ND	100	65.6	01/10/22 13:45	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/10/22 13:45	
ert-Butyl Alcohol	ug/L	ND	100	91.0	01/10/22 13:45	
ert-Butyl Formate	ug/L	ND	50.0	24.1	01/10/22 13:45	
Toluene	ug/L	ND	5.0	2.0	01/10/22 13:45	
Xylene (Total)	ug/L	ND	5.0	5.0	01/10/22 13:45	
1,2-Dichloroethane-d4 (S)	%	86	70-130		01/10/22 13:45	
4-Bromofluorobenzene (S)	%	103	70-130		01/10/22 13:45	
Toluene-d8 (S)	%	106	70-130		01/10/22 13:45	

LABORATORY CONTROL SAMPLE:	3512568					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.0	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	47.9	96	70-130	
Diisopropyl ether	ug/L	50	48.8	98	70-130	
Ethanol	ug/L	2000	2120	106	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	49.6	99	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	52.0	104	70-130	
Naphthalene	ug/L	50	55.6	111	70-130	
o-Xylene	ug/L	50	50.2	100	70-130	
tert-Amyl Alcohol	ug/L	1000	983	98	70-130	
tert-Amylmethyl ether	ug/L	100	99.0	99	70-130	
tert-Butyl Alcohol	ug/L	500	495	99	70-130	
tert-Butyl Formate	ug/L	400	493	123	70-130	

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Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

LABORATORY CONTROL SAMPLE:	3512568					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Toluene	ug/L		48.4	97	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	CATE: 3512	569		3512570	ı						
			MS	MSD								
	9	2581711002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	250	250	256	245	102	98	70-137	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	6250	6050	125	121	39-157	3	30	
Benzene	ug/L	ND	250	250	2550	2540	1020	1010	70-151	1	30	E,M1
Diisopropyl ether	ug/L	ND	250	250	235	240	94	96	63-144	2	30	
Ethanol	ug/L	ND	10000	10000	11800	11200	118	112	39-176	6	30	
Ethyl-tert-butyl ether	ug/L	ND	500	500	485	474	97	95	66-137	2	30	
Ethylbenzene	ug/L	ND	250	250	294	292	118	117	66-153	1	30	
m&p-Xylene	ug/L	ND	500	500	613	611	123	122	69-152	0	30	
Methyl-tert-butyl ether	ug/L	ND	250	250	1550	1520	621	609	54-156	2	30	M1
Naphthalene	ug/L	ND	250	250	290	284	116	114	61-148	2	30	
o-Xylene	ug/L	ND	250	250	287	283	115	113	70-148	1	30	
tert-Amyl Alcohol	ug/L	ND	5000	5000	5710	5670	114	113	54-153	1	30	
tert-Amylmethyl ether	ug/L	ND	500	500	490	487	98	97	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	2500	2500	3420	3290	137	132	43-188	4	30	
tert-Butyl Formate	ug/L	ND	2000	2000	974	950	49	48	10-170	2	30	v1
Toluene	ug/L	ND	250	250	348	345	139	138	59-148	1	30	
Xylene (Total)	ug/L	ND	750	750	900	894	120	119	63-158	1	30	
1,2-Dichloroethane-d4 (S)	%						101	101	70-130			
4-Bromofluorobenzene (S)	%						101	100	70-130			
Toluene-d8 (S)	%						101	98	70-130			

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Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

QC Batch: 670317 Analysis Method: EPA 8011

QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP

> Laboratory: Pace Analytical Services - Charlotte

92581222001, 92581222002, 92581222003, 92581222004, 92581222005, 92581222006, 92581222007, Associated Lab Samples:

 $92581222008, \, 92581222009, \, 92581222010, \, 92581222011, \, 92581222012, \, 92581222013, \, 92581222014, \, 9258122014, \, 9258122014, \, 9258122014, \, 9258122014, \, 9258122014, \, 9258122014, \, 9258122014, \, 925812014, \, 9258122014, \, 925812014, \, 9258122014, \, 9258122014, \, 9258122014, \, 9258122014, \, 92581$

92581222015, 92581222016, 92581222017

METHOD BLANK: 3509790 Matrix: Water

92581222001, 92581222002, 92581222003, 92581222004, 92581222005, 92581222006, 92581222007,Associated Lab Samples:

Parameter		Units	Blar Res		Reporting Limit	M	DL	Analyz	ed	Q	ualifiers		
1,2-Dibromoethane (EDB)		ug/L		ND	0.020		0.0070	01/07/22					
1-Chloro-2-bromopropane (S)		%		99	60-140			01/07/22	15:50				
LABORATORY CONTROL SA	MPLE &	LCSD: 350979	1		3509792								
Parameter		Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RP	D	Max RPD	Qua	alifiers
1,2-Dibromoethane (EDB)		ug/L	0.2	5 0.2	9 0.27	116	111	60-140			20		
1-Chloro-2-bromopropane (S)		%				102	101	60-140					
MATRIX SPIKE & MATRIX SP	IKE DUP	LICATE: 3509	794		3509795								
					0000.00								
		0050400000	MS	MSD		1400				. 5			
Parameter	Units	92581222002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Red	MSD c % Re		6 Rec ∟imits	RPD	Max RPD	Qua
1,2-Dibromoethane (EDB)	Units ug/L		Spike	Spike	MS	_	% Red	c % Re	c L			RPD	Qua
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane		Result	Spike Conc.	Spike Conc.	MS Result	Result	% Red	% Re	c L	imits		RPD	Qua
I,2-Dibromoethane (EDB) I-Chloro-2-bromopropane S)	ug/L %	Result	Spike Conc.	Spike Conc.	MS Result	Result	% Red	% Re	c L	imits 60-140		RPD	Qua
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S) SAMPLE DUPLICATE: 3509	ug/L %	Result ND	Spike Conc. 0.25	Spike Conc. 0.25	MS Result 0.29	Result 0.29	% Red 1 1	% Re 16 1 03 1	c L	60-140 60-140	0	RPD	Qua
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S)	ug/L %	Result	Spike Conc.	Spike Conc. 0.25	MS Result 0.29	Result	% Red 1 1	% Re 16 1 03 1	c L	imits 60-140	0	RPD	Qua
1,2-Dibromoethane (EDB) 1-Chloro-2-bromopropane (S) SAMPLE DUPLICATE: 3509	ug/L %	Result ND	Spike Conc. 0.25	Spike Conc. 0.25	MS Result 0.29	Result 0.29	% Red 1 1	% Re 16 1 03 1	c L	60-140 60-140	0	RPD	Qua

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALIFIERS

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 01/12/2022 03:00 PM

C8	Result may	be biased high	due to carr	vover from	previously	analyzed sample.

E Analyte concentration exceeded the calibration range. The reported result is estimated.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

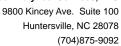
MS Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the

calculated result.

R1 RPD value was outside control limits.

The continuing calibration verification was above the method acceptance limit. Any detection for the analyte in the

associated samples may have a high bias.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 11929/64473 Former Ryder Termi

Pace Project No.: 92581222

Date: 01/12/2022 03:00 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92581222001	MW-2	EPA 8011	670317	EPA 8011	670384
92581222002	MW-2D	EPA 8011	670317	EPA 8011	670384
92581222003	MW-3R	EPA 8011	670317	EPA 8011	670384
92581222004	MW-4	EPA 8011	670317	EPA 8011	670384
92581222005	MW-5	EPA 8011	670317	EPA 8011	670384
92581222006	MW-7	EPA 8011	670317	EPA 8011	670384
92581222007	MW-8	EPA 8011	670317	EPA 8011	670384
92581222008	MW-9	EPA 8011	670317	EPA 8011	670384
92581222009	MW-10	EPA 8011	670317	EPA 8011	670384
92581222010	MW-11	EPA 8011	670317	EPA 8011	670384
92581222011	MW-12	EPA 8011	670317	EPA 8011	670384
92581222012	MW-13	EPA 8011	670317	EPA 8011	670384
92581222013	MW-14	EPA 8011	670317	EPA 8011	670384
92581222014	MW-16	EPA 8011	670317	EPA 8011	670384
92581222015	MW-18	EPA 8011	670317	EPA 8011	670384
92581222016	DUP	EPA 8011	670317	EPA 8011	670384
92581222017	FB	EPA 8011	670317	EPA 8011	670384
92581222001	MW-2	EPA 8260D	670148		
92581222002	MW-2D	EPA 8260D	670148		
92581222003	MW-3R	EPA 8260D	670191		
92581222004	MW-4	EPA 8260D	670191		
92581222005	MW-5	EPA 8260D	670193		
92581222006	MW-7	EPA 8260D	670193		
92581222007	MW-8	EPA 8260D	670203		
92581222008	MW-9	EPA 8260D	670193		
92581222009	MW-10	EPA 8260D	670193		
92581222010	MW-11	EPA 8260D	670191		
92581222011	MW-12	EPA 8260D	670193		
92581222012	MW-13	EPA 8260D	670825		
92581222013	MW-14	EPA 8260D	670191		
92581222014	MW-16	EPA 8260D	670825		
92581222015	MW-18	EPA 8260D	670191		
92581222016	DUP	EPA 8260D	670193		
92581222017	FB	EPA 8260D	670191		
92581222018	ТВ	EPA 8260D	670148		

	Chain-of-	Custody is	s a LEGAL D	OCUMENT	r - Complet	Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields	nt fields						=			
COMPANY: SCDHEC			Billing Information:	rmation:						==8	97E81377					
Address: Bull St. Columbia	ambia SC	, 60°		21	e igo			m	m	Container P.		3	Lab	сар Project Manager:		
			Email To:	WARE	2 @ dh	Email To: Junnea @ Shec. Sc. 000	700	* 9	Preservative Typ	es: (1) nitric	adid, (2) sulf	rric acid, (3) h	/drochloric acic	** Preservative Types: (1) nitric adid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate.	de, (5) zinc acetate	
Сору То:			Site Collection Info/Address:	ion Info/A	ddress:	Dr.	>	0	(C) ammonium hydroxide, (D) TSP (U) Unpreserved, (O) Other	roxide, (D) T	SP (U) Unpre	served, (0) 0	her	ascorbic acid, (b) an	monium sunate,	
Customer Project Name/Number:	Termina	91131	State:	County/City:	state: County/City: Time Zone	e Zone PT []	Collected: MT[]CT [M]ET)ET	281	Ans	Analyses		Lab	Lab Profile/Line: Lab Sample Receipt Checklist:	pt Checklist:	
Phone: Email:	Site/Facility ID #: UST 井 II	1939	01 10	160 s	Complianc [] Yes	Compliance Monitoring?	ng?	V V70	<i>a</i> 40:	olleri			3 3 8 .	Custody Seals Present/Intact Custody Signatures Present Collector Signature Present	Seals Present/Intact Signatures Present or Signature Present	EZZ
Shawn Sprott	Purchase Order #: 644 Quote #:	+ e4	173	el c	DW PWS ID #: DW Location Code:	ID #: ion Code:		83	20	ot (Su. Su.	Bottles Intact Correct Bottles Sufficient Volume	Q	ZZZ
Collected By (signature):	Turnaround Date Required:	Required	aug s	ie in	Immediate [Immediately Packed on Ice: [] Yes [] No	on Ice:	XXO'	i don	1950		*1	Samp VOA USDP	Les - He Reg	on Ice Acceptable oils	Y Y N N N N N N N N N N N N N N N N N N
Sample Disposal: [Dispose as appropriate [Rush: [] Same Day [] 2 Day [] 3 Day (Expedite Cha		[] Next Day [] 4 Day [] 5 Day rges Apply)	/ []5 Day	Field Filter [] Yes Analysis:_	Field Filtered (if applicable): [] Yes [] No Analysis:	cable):	¥>0-6/1		III EUL PA		manores.	R Re C L	Samples in Holding Time Residual Chlorine Present Cl Strips: Sample pH Acceptable	esent	Y N NA Y N NA Y N NA
* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WV Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)	x below): Drinking L), Wipe (WP), Air	Water (C (AR), Tiss	JW), Groun ue (TS), Bic	nd Water (vassay (B),	GW), Wast Vapor (V),	ewater (WW), Other (OT)	W),	VVV	08	1312)) (3 (3 t) (12 (3 t)		Le	Sulfide Present Lead Acetate Strips:	380 (4.1)	N A
Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)	ed (or	Сотро	Composite End	Res	X9_	Ta	P ITHE	ojnej Edu		LA	LAB USE ONLY: Lab Sample # / Comments:	omments:	
	pe pe	iler	Date	Time	Date	Time	FH2.	La	3			71172		rge	93581333	81333
	\			7	G /		2							Not sampled	ampled	
MY-S	3.	0	14/33	15:55	AE L		ye ori	×	×.	511. 7			,	Odor		100
MW-28		6.9	LSI CE	12.00	C 0		ji c	-		Di U	21 21		10	5 1:9 h+ 040 r		00%
)		i At	EI ALL	1:19	61112	9	7 9	→ →	>				7	-Trong 000		500
MW-5	>	>	>	11:55	N.G			X	×				5	No odow) (000
9-MW			60	September 1			6		-				2	5		
MW-7	200	9	ce/h/1	10:34	doe L		(6)	X 9	X		77.1		5	No oder	0	900
NW-X				10:44	11		154	X 9,	×	ab				1	O	100
- MM	<i>></i>		> 5	9				×	×			(>	ע	000
Costonier nemarks / Special Conditions / Possible Hazards;	ions / Possible Haz		Packing Material Used:	Js.	16	blue Ury	None	a)	Lab Tracking #:	DS PRESEN	26.9	SHORT HOLDS PRESENT (<72 hours): Y (M) N/A Lab Tracking #: 2697292	N/A	Lab Sample Tem Temp Blank F Therm ID#:	Lab Sample Temperature Info: Temp Blank Received: Y W NA Therm ID#:	Y ST NA
		1 &	Radchem sample(s) screened (<500 cpm):	mple(s) sc	reened (<5	.00 cpm):	z >	NA	Samples received via:	eived via:			1	Cooler 1	Cooler 1 Temp Upon Receipt: 10 oc Cooler 1 Therm Corr. Factor: 0 oc	ipt: 70 oc
Relinquished by/Company: (Signature)	No.	Date/Time:	202/	801:1122	Received by	Received by/Company: (Signature)	: (Signatur 15 / Pa.	[3	Date/Time: 1/5/23	me:	((O) Ta		MTJL LAB USE ONLY ##:	Cooler 1 Co Comments:	Corrected Temp: S:	200
Calinquished by/Company: (Signature	(o)	Date/fime:		1640	Received by	Received by/Company: (Signature)	: (Signatur		Date/Time:		164 C Ter	Acctnum: Template: Prelogia:		Trip Blank	Trip Blank Received: &	N NA Other
Relinquished by/Company: (Signature)	re)	Date/Time:	ime:	2	eceived by	Received by/Company: (Signature)	(Signature		Date/Time:	me:	D. D. D. D. D. D. D. D. D. D. D. D. D. D			U		

MTJL Log-in Number Here	ALL SHADED AREAS are for LAB USE ONLY	Lab Project Manager:	ochloric acid, (4) sodium hydroxide, (5) zinc acetate,	nexane, (A) ascorbic acid, (B) ammonium suitate,	Lab Profile/Line: Lab Sample Receipt Checklist:	Present/Intact Y (N ures Present Y N ature Present Y N	K K K	ble (x/N	ne Present Y N table Y N	Lead Acetate Strips:	Lab Sample # / Comments:	425	No ador Oco		-610	¥ 013		slight ofor oly		210	Lab Sample Temperature Info:	7 1	Pace Courier Conley 1 Contracted Tamp.	Comments:	Trip Blank Received: N NA	
MTJL Log-ir	ALL SHADED AREAS	Container Preservative Type **	** Preservative Types: (1) nitric adid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) method (7) codium binifical (8) cili.	(c) ammonium hydroxide, (D) TSP (U) Unpreserved, (O) Other	Analyses	709	C& 5	(X)(o')	l10,		30 <u> </u>	_	× -		×	× .		X	7		SHORT HOLDS PRESENT (<72 hours): Y_N/A	Lab Tracking #: 2697293	Samples received via: FEDEX UPS (dient Courier	MTJL LA Table #:	Date/Time: PELZ CV Template: Prelogin:	Date/Time:
UMENT - Complete all relevent fields			nraled bec. SC. 90V	5 6	, <u>‡</u>	- e	DW PWS ID #: DW Location Code:	Immediately Packed on Ice: [J Yes [] No	Field Filtered (if applicable): y [] Yes [] No [] S Day Analysis:	Nater (GW), Wastewater (WW), say (B), Vapor (V), Other (OT)	or Composite End Res # of trans	Date Time	0.30	13:19	13:46	13:32		9 05:11	50.3	00	ed: Wet Blue Dry None	ial Used: $ S S$	Radchem sample(s) screened (<500 cpm): Y N NA	Beceived by/Company: (Signature)	Heceived by/Company: (Signature)	Received by/Company: (Signature)
Chain-of-Custody is a LEGAL DOCUMENT - Complete all	Billing Information:	Columbia SC	Email To:	Site Collection Info/Address	State: County/City:	11929	Purchase Order #: 64 4 73 Quote #:	Turnaround Date Required:	Rush: [] Same Day [] Next Da: [] 2 Day [] 3 Day [] 4 Day [Expedite Charges Apply)	Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)	Comp / Collected (or Matrix * Grab Composite Start)	Date	000	6		× × ×		GW (0 1/4/83 1).	Gw C 11/4/23 W-	→ →		Packing Material Used: S	Radchem samp		E	ure) Date/Time:
Pace Analytical	Company: S C D H E C	Addressio Bull St. Co	Report To: R. Dunn	Copy To:	Customer Project Name/Number:	S LOTVING	Collected By (print):	Lie 1	Sample Disposal: [] Dispose as appropriate [] Return [] Archive: [] Hold:	* Matrix Codes (Insert in Matrix b. Product (P), Soil/Solid (SL), Oil (C	Customer Sample ID	67 /200	11-WW	MW-12	-	MW-14	mw-15	MW-16	Ww-18		Customer Remarks / Special Conditions / Possible Hazards:	Tall Pall	0	Relinquished W/Company (Signature)	Palindurshed by/Company; (Signature)	Relinquished by/Company: (Signature)

sent rature Les Ten Les Les Les Les Les Les Les Les Les Les	8	CHAIN-OF-C	ISTODY Analyti	cal Regulect Docume	+44	LAB USE ONLY- Affix W	orkorder/Login Label Here	r list Pare Workorder Number or
Street S	Pace Analytical*	Chain-of-Custo	do is a LEGAL DOCUMEN	T - Complete all relevent fields	•		MTJL Log-in Number I	Here
	Company: CDH 6C	6	Billing Information:			ALL SHA	DED AREAS are for	LAB USE ONLY
Sing Order Date Sing the College Sing College	Address: OF Bull St, Co	lumbia SC	reco		~	Container Preservative	0 -	roject Manager:
Stag Guileton monthly State County Stag Guileton monthly State County Stag Guileton monthly State County Stag Guileton monthly State County	REPORT TO: R. DUNN		Email To: JUNN	0@ Shoc.5c.00v	** Prese	vative Types: (1) nitric acid, (2) s	ulfuric acid, (3) hydrochloric acid	(4) sodium hydroxide, (5) zinc acetate,
State Composition The property The State Composition The State T	Сору То:		Site Collection Info/	0	(c) ammo	anov, (7) sodium bisuriate, (8) sod onium hydroxide, (D) TSP, (U) Un	num thiosulfate, (9) hexane, (A) a	sscorbic acid, (B) ammonium sulfate,
With the Children of Contractor Signature Present (7 to 18 to 18 to 19 t	Customer Project Name/Number:	[ermina]	State: County/Ci	ne Collected:] MT [] CT	[t]	Analyses	Lab P	Receipt Checklist:
The control of the co		Site/Facility ID #: UST # 119	194 month	Compliance Monitoring? [] Yes [] No	1098	ene e (Asia: Shissi area e		N KN K
When the transmit of the topy	440	Purchase Order #: £ L Quote #:	5447	DW PWS ID #: DW Location Code:	18 1	TOD III	Bot	NNN
1 Same Day Neet Day Find Filtered (if applicable): 1 Same Day 1 Soay 1 S		Turnaround Date Requ	uired:	Immediately Packed on Ice: [] Yes [] No	(0/A	sclan	Sar VOJ USI	ble Y N
Matrix Comp Counted Water (OW), Mastewater (WW), Ma	opriate [] Return	[] s	[] Next Day / [] 4 Day [] 5 Day :harges Apply)		00-27	en aliai).	San San PH	ime & N
Composite End Composite End Res For Comments	* Matrix Codes (Insert in Matrix box Product (P), Soil/Solid (SL), Oil (OL),	below): Drinking Wate , Wipe (WP), Air (AR),	er (DW), Ground Water (Tissue (TS), Bioassay (B),	(GW), Wastewater (WW), , Vapor (V), Other (OT)	WW.	Zis si	Sul	N H
1975 1976	Customer Sample ID	Comp Matrix * Grab	/ Collected (or Composite Start)	100	XJL		LAE	<pre>USE ONLY: Sample # / Comments:</pre>
14:17 14:1	21	230		S 100	gy		Ÿ	-
Possible Hazards: Type of Ice Used: Wet Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temperature info: Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Received: Y (W) N/A Lab Sample Temp Blank Recei	CH	mj.		1/4/	X	11 25		Plank
Possible Hazards: Type of Ice Used: Weft Blue Dry None SHORT HOLDS PRESENT (<72 hours): Y (W N/A Temp Blank Received: Y & N/A Temp Blank Blan	T-B	>	00:8	No. 10 8 132	×		5.1	10
Trip Blank Received by/Company: (Signature) Date/Time: Date/Time								
Packing Material Used: Short Holds Pressing Holds (South Formation of Sample Fracting Holds) and the Packing Material Used: Short Holds (South Fracting Fracting Material Used: Short Holds) and the Packing Material Used: Samples received via: Packing Material Used: Short Material Used: Samples received via: Packing Material Used: Samples received via: Packing Material Used: Samples received via: Packing Material Used: Samples received via: Packing Material Used: Samples received via: Packing Material Used: Samples received via: Packing Material Used: Sample France: Packing Material U	Cictomor Bomarke / Cooxiel Condition		Tung of leathers.					
Radchem sample(s) screened (<500 cpm): Y N 200 Samples received via: FEDEX UPS Client Courier Received by/Company: (Signature) Date/Time: Date/Ti	Custoffier Neffialrs / Special Condition	ns / Possible Hazards:		Blue Dry		ORT HOLDS PRESENT (<72 h		B
Date/Time: 5/2.1	1 7	,	iem sample(s) s	Y y: (Sign	(A)		5	00,7
Date/Time: Received by/Company: (Signature) Date/Time: PM: Non Conformance(s): Pag		9	Q ÷ 5	Mallas/ Sompany: (Sign	ace ire)	011	Table #: Acctnum: emplate:	S
	Pelinquished by/Company: (Signature		2	Received by/Company: (Signatu	lre))	relogin: M:	SP





January 10, 2022

Mr. Bryan Shane Midlands Environmental PO Box 854 Lexington, SC 29071

RE: Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Dear Mr. Shane:

Enclosed are the analytical results for sample(s) received by the laboratory on January 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

• Pace Analytical Services - Charlotte

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lindsey N Wooten

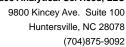
lindsey.wooten@pacelabs.com

(704)875-9092 Project Manager

Enclosures

cc: Mr. Jeff Coleman, Midlands Environmental Mr. Kyle Pudney, Midlands Environmental







CERTIFICATIONS

Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Pace Analytical Services Charlotte

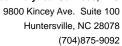
South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84

North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029

South Carolina Laboratory ID: 99006 Virginia/VELAP Certification #: 460221



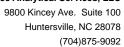


SAMPLE SUMMARY

Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92581231001	MECI GAC	Water	01/04/22 14:17	01/05/22 11:10





SAMPLE ANALYTE COUNT

Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92581231001	MECI GAC	EPA 8011	НН	2	PASI-C
		EPA 8260D	NSCQ	20	PASI-C

PASI-C = Pace Analytical Services - Charlotte



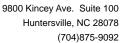
ANALYTICAL RESULTS

Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Date: 01/10/2022 11:41 AM

Sample: MECI GAC	Lab ID:	9258123100	1 Collected	i: 01/04/22	2 14:17	Received: 01/	05/22 11:10 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
8011 GCS EDB and DBCP	Analytical	Method: EPA	8011 Prepar	ation Metho	od: EPA	x 8011			
	Pace Anal	ytical Service	s - Charlotte						
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.0070	1	01/07/22 09:55	01/07/22 20:05	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	01/07/22 09:55	01/07/22 20:05	301-79-56	
8260 MSV	Analytical	Method: EPA	8260D						
	Pace Anal	ytical Service	s - Charlotte						
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		01/07/22 10:04	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		01/07/22 10:04	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		01/07/22 10:04	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		01/07/22 10:04	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		01/07/22 10:04	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		01/07/22 10:04	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		01/07/22 10:04	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		01/07/22 10:04	108-20-3	
Ethanol	ND	ug/L	200	144	1		01/07/22 10:04	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		01/07/22 10:04	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		01/07/22 10:04	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		01/07/22 10:04	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		01/07/22 10:04	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		01/07/22 10:04	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		01/07/22 10:04	1330-20-7	
m&p-Xylene	ND	ug/L	10.0	4.1	1		01/07/22 10:04	179601-23-1	
o-Xylene	ND	ug/L	5.0	2.0	1		01/07/22 10:04	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	101	%	70-130		1		01/07/22 10:04	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		01/07/22 10:04	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		01/07/22 10:04	2037-26-5	





Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Date: 01/10/2022 11:41 AM

QC Batch: 670193 Analysis Method: EPA 8260D
QC Batch Method: EPA 8260D Analysis Description: 8260 MSV SC

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581231001

METHOD BLANK: 3509090 Matrix: Water

Associated Lab Samples: 92581231001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
i didilielei				IVIDE		Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	01/07/22 03:25	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	01/07/22 03:25	
Benzene	ug/L	ND	5.0	1.7	01/07/22 03:25	
Diisopropyl ether	ug/L	ND	5.0	3.5	01/07/22 03:25	
Ethanol	ug/L	ND	200	144	01/07/22 03:25	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	01/07/22 03:25	
Ethylbenzene	ug/L	ND	5.0	1.8	01/07/22 03:25	
m&p-Xylene	ug/L	ND	10.0	4.1	01/07/22 03:25	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	01/07/22 03:25	
Naphthalene	ug/L	ND	5.0	2.1	01/07/22 03:25	
o-Xylene	ug/L	ND	5.0	2.0	01/07/22 03:25	
tert-Amyl Alcohol	ug/L	ND	100	65.6	01/07/22 03:25	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	01/07/22 03:25	
tert-Butyl Alcohol	ug/L	ND	100	91.0	01/07/22 03:25	
tert-Butyl Formate	ug/L	ND	50.0	24.1	01/07/22 03:25	
Toluene	ug/L	ND	5.0	2.0	01/07/22 03:25	
Xylene (Total)	ug/L	ND	5.0	5.0	01/07/22 03:25	
1,2-Dichloroethane-d4 (S)	%	100	70-130		01/07/22 03:25	
4-Bromofluorobenzene (S)	%	100	70-130		01/07/22 03:25	
Toluene-d8 (S)	%	103	70-130		01/07/22 03:25	

LABORATORY CONTROL SAMPLE:	3509091					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	52.2	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	2310	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	109	109	70-130	
Ethylbenzene	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	54.8	110	70-130	
Naphthalene	ug/L	50	55.0	110	70-130	
o-Xylene	ug/L	50	50.9	102	70-130	
tert-Amyl Alcohol	ug/L	1000	1080	108	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	546	109	70-130	
tert-Butyl Formate	ug/L	400	444	111	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Date: 01/10/2022 11:41 AM

LABORATORY CONTROL SAMPLE:	3509091					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Toluene	ug/L	50	50.6	101	70-130	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SP	IKE DUPLIC	CATE: 3509	092		3509093							
			MS	MSD								
	9	2581222005	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	15.7	15.5	79	78	70-137	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	434	421	108	105	39-157	3	30	
Benzene	ug/L	ND	20	20	18.2	18.2	91	91	70-151	0	30	
Diisopropyl ether	ug/L	ND	20	20	14.9	14.9	74	74	63-144	0	30	
Ethanol	ug/L	ND	800	800	591	570	74	71	39-176	4	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	30.5	30.2	76	75	66-137	1	30	
Ethylbenzene	ug/L	ND	20	20	23.7	23.7	119	118	66-153	0	30	
m&p-Xylene	ug/L	ND	40	40	48.0	47.3	120	118	69-152	2	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	15.4	15.1	77	75	54-156	2	30	
Naphthalene	ug/L	ND	20	20	24.7	24.6	124	123	61-148	0	30	
o-Xylene	ug/L	ND	20	20	23.9	22.9	119	115	70-148	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	329	313	82	78	54-153	5	30	
tert-Amylmethyl ether	ug/L	ND	40	40	33.9	33.5	85	84	69-139	1	30	
tert-Butyl Alcohol	ug/L	ND	200	200	170	167	85	83	43-188	2	30	
tert-Butyl Formate	ug/L	ND	160	160	36.9J	27.9J	23	17	10-170		30	
Toluene	ug/L	ND	20	20	18.4	18.4	92	92	59-148	0	30	
Xylene (Total)	ug/L	ND	60	60	71.9	70.2	120	117	63-158	2	30	
1,2-Dichloroethane-d4 (S)	%						95	95	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						94	95	70-130			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Date: 01/10/2022 11:41 AM

QC Batch: 670317

QC Batch Method: EPA 8011

Analysis Method: EPA 8011

Analysis Description: GCS 8011 EDB DBCP

Laboratory: Pace Analytical Services - Charlotte

Associated Lab Samples: 92581231001

METHOD BLANK: 3509790 Matrix: Water

Associated Lab Samples: 92581231001

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.0070	01/07/22 15:50	
1-Chloro-2-bromopropane (S)	%	99	60-140		01/07/22 15:50	

LABORATORY CONTROL SAMPLE & I	LCSD: 3509791		35	509792						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	0.27	116	111	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				102	101	60-140			

MATRIX SPIKE & MATRIX S	PIKE DUPL	ICATE: 3509	794		3509795							
			MS	MSD								
		92581222002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	0.29	0.29	116	116	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						103	104	60-140			

SAMPLE DUPLICATE: 3509793						
		92581222001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	106	104			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



9800 Kincey Ave. Suite 100 Huntersville, NC 28078 (704)875-9092

QUALIFIERS

Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

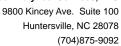
N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Date: 01/10/2022 11:41 AM





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Former Ryder Terminal GAC

Pace Project No.: 92581231

Date: 01/10/2022 11:41 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92581231001	MECI GAC	EPA 8011	670317	EPA 8011	670384
92581231001	MECI GAC	EPA 8260D	670193		

	Container Preservative Type Container Preservative Type ive Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochlori (1, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexanum hydroxide, (10) TSP, (10) Unpreserved, (10) Other Analyses	
Evall St. Columbia: St. Email To: Juan to Collected: State: County flats: Lot Collected: State: County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot County flats: Lot Lot Lot Lot Lot Lot Lot Lot Lot Lot	Container Preser/ative Type ive Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochlori I, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane Im hydroxide, (0) TSP, (U) Unpreserved, (O) Other Analyses	
Email To: gunn race sheet. Sc. gov State Collection Info/Address; State: County/City: Time Zone Collected: State: County/City: Time Zone Collected: (1) State Facility ID #: State: County/City: Time Zone Collected: (2) State Facility ID #: State: County/City: Time Zone Collected: (2) State Facility ID #: State: County/City: Time Zone Collected: (3) State Facility ID #: State County/City: Time Zone Collected: (4) State Facility ID #: Time County City: Time Zone Collected (I Time County) (5) State Facility ID #: Time County City: County (I Time County) (6) State Facility ID #: Time County (I Time County) (7) State Facility ID #: Time County (I Time County) (8) Vapor (V), Other (OT) (9) Vapor (V), Other (OT) (1) Wipe (WP), Air (AR), Tissue (TS) Bioassay (B), Vapor (V), Other (OT) (1) State Facility I Time County (I Time County) (2) State Facility I Time County (I Time County) (3) State Facility I Mater (I Time County) (4) State Time County (I Time County) (5) State Facility I Mater (I Time County) (6) State Facility I Mater (I Time County) (7) State I Time County (I Time County) (8) Vapor (V), Other (OT) (9) State Facility I Material Used: Affect County) (1) State Packing Material Used: Affect County) (1) State I Time County (I Time County) (1) State I Time County (I Time County) (2) State Facility I Time County (I Time County) (3) State Facility I Material Used: Affect County) (4) State County (I Time County) (5) State Facility I Material Used: Affect County (I Time County) (6) State County (I Time County) (7) State County (I Time County) (8) State County (I Time County) (8) State County (I Time County) (9) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (1) State County (I Time County) (2) State County (I Time County) (3) State County (I Time County) (4) State	ive Types: (1) nitric acid, (3) hydrochlori, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, In hydroxide, (1) TSP, (1) Unpreserved, (0) Other————————————————————————————————————	
Site County City: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Zone Collected: State: County City: Time Day: State (if applicable): Composite Start) State: County City: Collected (or Composite End City: City: Collected (or Composite Start) State: County City: Collected (or Composite End City: City: Collected (or Composite End City: City: Collected (or Composite Start) State: County City: Collected (or Composite End City: City: Collected (or Composite Start) State: Composite Start) State: Composite Start: Collected (or Composite End City: City: City: City: Collected (or Composite Start) State: Composite Start: Collected (or Composite End City: Cit	Analyses Analyses	ım hydroxide, (5) zinc acetate, icid, (B) ammonium sulfate,
Site/Facility ID #: Site/Facility ID #: Site/Facility ID #: Site/Facility ID #: Site/Facility ID #: Own Purchase Order #: & 4 4 7 3 Dw Pw/S ID #: Ouote #: Turnaround Date Required: [] Same Day [] Next Day [] Yes [] No [] Yes [] Yes [] No [] Yes [] Yes [] No [] Yes []		io
Site/Facility ID #: 1939 General Site/Facility ID #: 1939 General Site/Facility ID #: 1939 General Site Facility ID #: 2000 for #: 64473 Duranged By (print): Duranged By (print): Duranged By (print): Duranged By (print): Duranged By (print): Duranged By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print): Expect By (print): Duranged By (print):		STREET, STREET
ired: [Jwes in Dw Location Code:		Custody Signatures Present (N NA Collector Signature Present (N NA Rottles Intact
Imprediately Packed on Ice: 1 Ves 1 No 1 Next Day 1 5 Day 1 1 Ves 1 No 1 Analysis:	VODP VODP Samp Resi Resi C Cl S Samp PH S	
Field Filtered (if applicable): [] Next Day		D N N
Tissue (TS), Bioassay (B), Vapor (V), Other (OT) Collected (or Composite End Clercation Composite Start) Date Time Date Time Composite End Clercation Interpretation Composite End Clercation Type of Ice Used: Wet Blue Dry None Packing Material Used:		re Present
Composite End Class Composite Start) Date Time Date Time I/4/A3 14:17 14:17 15:10		cips:
1/4/52 4:15 6 6 6 6 6 6 6 6 6		Lab Sample # / Comments:
Type of Ice Used: Wet Blue Dry None Packing Material Used: SA	K Freld blank	Jan K 9258 1231
Type of Ice Used: Wet Blue Dry None Packing Material Used:	X GAC S	96
Type of Ice Used: Wet Blue Dry Nor	0	ank
Type of Ice Used: Wet Blue Dry Nor Packing Material Used:		
Type of Ice Used: Wet Blue Dry Nor Packing Material Used:		
Type of Ice Used: Wet Blue Dry Nor Packing Material Used:		
Type of Ice Used: Wet Blue Dry Nor Packing Material Used:		
>	N/A	Lab Sample Temperature Info:
>	546957	Therm ID#: $\frac{1}{\sqrt{L}CCQ}$ Cooler 1 Temp Upon Receipt: $\frac{4C}{C}$ oc
7 7 1 kadachem sample(s) screened (sour cpm): 1 N Ex		Cooler 1 Therm Corr. Factor: 0 oC Cooler 1 Corrected Temp: 4.6 oC
Company Signardire) Date/Time: (S/22 1 : 0	Date/Time: MTJL LAB ÜSE ONLY C	Comments:
Date/Time: 1640	1 CL/C Template:	Trip Blank Received: & N NA
(Signature) Date/Time:	Date/Time: PM: No PB:	Non Conformance(s): Page:

APPENDIX B:

TAX MAP

#11929



PIN / Tax Map #	0282000100500	Jurisdiction	1
Owner Name	Mitchell F Andrew	Land Use	940
Owner Name 2		Legal Description	PT.10
Mailing Address	101 Chelsea Ln	Subdivision	Lowndes Hill Realty Co.
City	Greer	Site Address Number	10
State	SC	Site Address Street	WOODS LAKE
Zip Code	29650	Sale Price	\$0
In Care Of		Fair Market Value	\$442,300
Previous Owner	Wheeler Properties LLC	Taxable Market Value	\$442,300
Deed Date	2/20/2020	Taxes	\$6,794.55
Deed Book	2587	Date Taxes Paid	12/31/2020
Deed Page	5515	Estimated Acres	1.41
Plat Book	1359	Square Feet	0
Plat Page	86	Number of Bedrooms	0
Tax District	500	Number of Bathrooms	0
Market Area	C00077	Number of Half Baths	0



Disclaimer: This Map is not a LAND SURVEY and is for reference purposes only. Data contained in this map are prepared for the inventory of Real Property found within this jurisdiction, and are compilied from recorded deeds, plats, and other public records. Users of this map are hereby notified aforementioned public primary information sources should be consulted for verification of the information contained in this map. Greenville County assumes no legal responsibility for the information contained in this map.

Map Scale
1 inch = 100 feet
9/29/2021

APPENDIX C:

DISPOSAL MANIFEST



Re: Treatment of Purge Water
Former Ryder Terminal
Greenville, South Carolina
SCDHEC Site ID Number 11929
MECI Project Number 21-7721

To Whom It May Concern;

Midlands Environmental Consultants, Inc. is providing the following letter as certification that treatment of the referenced purge water complied with the conditions of "Proposed Conditions for Use of Portable Activated Carbon Units for the Treatment of Small Volumes of Petroleum Hydrocarbon Contaminated Groundwater", as described in the following:

Applicability:

Groundwater treated was obtained as a result development of wells and sampling.

Conditions:

- 1. The purge/bail water from all wells is mixed before usage of the Activated Carbon Unit.
- 2. No free-product was detected in any of the purge water drums.
- 3. Analytical results of from well sampling show average concentrations of petroleum hydrocarbon constituents less than 5000 parts per billion (ppb) Benzene and less than 20,000 ppb total BTEX.
- 4. The existing carbon pack will be replaced/reactivated every 5,000 gallons.
- 5. Record of usage is maintained by Contractor.
- 6. Any and all recommendations and conditions issued by the Manufacturer have been adhered to.
- 7. Any and all recommendations and conditions (even on a site by site basis) issued by the SCDHEC must be adhered to.

All purge waters were treated on-site using an up-flow treatment drum loaded with 80 pounds of activated carbon. Carbon will be loaded to a maximum of 3 pounds of total organic compounds or 5,000 gallons of development/purge water, whichever occurs first.

A total of 32.50 gallons were treated on January 4, 2022, at the referenced site.

Midlands Environmental also tracks cumulative organic compounds adsorbed on the activated carbon to ensure the capacity of carbon mass is not over-charged. This data is available upon request.

Should you have any questions or comments, please contact the undersigned.

Sincerely,

Midlands Environmental Consultants, Inc.

Yeff L. Coleman Senior Scientist APPENDIX D:

ACCESS AGREEMENTS



State Lead Option Property Access Agreement for Site Rehabilit

Only complete this form if: You are the legal owner of the property OR are the designated authorized representative for the legal owner of the property.

I certify that I am the legal owner of the property identified below or serve as the authorized representative for the legal owner of the property. I authorize the South Carolina Department of Health and Environmental Control (DHEC), or a contractor selected by DHEC, to enter this property at reasonable times only to conduct assessment and corrective action activities, as required. The contractor will be designated as the contractor for the UST owner or operator for only the required environmental site rehabilitation activities. I understand that the Agency will notify me of all activities that are necessary prior to their initiation and will promptly provide to me a summary of the data upon request.

UST Permit # 11929						
Facility Name: Former Ryder Te	eminal	ms minimum place	OF MAY			
Facility Address: 10 Woods La	ake Dr., Greenville, SC 29607					
Facility Phone Number:	B64-884-0937					
Is facility within city limits	? (check yes/no)	⋉ Yes	No			
Name of nearest intersecti	ing street/road/highway:	Lownes Hill Rd.				
Does public water/sewer u	tility service this facility?	メ Yes	☐ No			
*If no, please provide a conta	act name/number that can assis	st in the location of private wa	iter and septic tank lines:			
Name:		Phone Number:				
Were USTs previously rem this facility?		⊠ Yes	☐ No			
	ame/contact number of a persor					
Name: You have all that information. Phone Number: I do not.						
Is the facility currently leas		× Yes	No			
	nding work scope, and please p	provide their name/contact nu	mber:			
Name: Homestead L	ann & Landscape	Phone Number: 864-	884-4897			
*Please note that if veh former USTs, the	icles or other mobile structurely should be moved prior to [res are parked over the loca DHEC's contractor mobilize	ation of the existing or es to the facility.			
Name of Property Owner (F	Paintle A h					
	7 1 - 171000 146	itchell				
Signature of Property Own authorized representative:	er or 7. Culast	Witht	Date 5/16/53			
Affiliation (if applicable)						
Signature of Witness	Karen & The	tekell,	Date 5/16/53			
		Charles of the Control of the Contro	自然是各种的基础			
	Contact					
Phone Numbers:	Home:	Cell: B64	-884-0937			
Email Address:	am:tch 26390	gmail.com				
		0				

APPENDIX E:

DATA VERIFICATION CHECKLIST

Contractor Checklist

Item#	Item	Yes	No	N/A
1	Are Facility Name, Permit #, and address provided?	X		
2	Is UST Owner/Operator name, address, & phone number provided?	X		
3	Is name, address, & phone number of current property owner provided?	X		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	X		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?			X
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	X		
7	Has the facility history been summarized?			X
8	Has the regional geology and hydrogeology been described?			X
9	Are the receptor survey results provided as required?			X
10	Has current use of the site and adjacent land been described?	X		
11	Has the site-specific geology and hydrogeology been described?			X
12	Has the primary soil type been described?			X
13	Have field screening results been described?			X
14	Has a description of the soil sample collection and preservation been detailed?			X
15	Has the field screening methodology and procedure been detailed?			X
16	Has the monitoring well installation and development dates been provided?			X
17	Has the method of well development been detailed?			X
18	Has justification been provided for the locations of the monitoring wells?			X
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?			X
20	Has the groundwater sampling methodology been detailed?	X		
21	Have the groundwater sampling dates and groundwater measurements been provided? (Table 2 & Figure 3)	X		
22	Has the purging methodology been detailed?	X		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete? (Appendix A)	X		
24	If free-product is present, has the thickness been provided?			X
25	Does the report include a brief discussion of the assessment done and the results?	X		
26	Does the report include a brief discussion of the aquifer evaluation and results?			X
27	Does the report include a brief discussion of the fate & transport models used?			X

Item#	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			X
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			X
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			X
31	Have recommendations for further action been provided and explained?			X
32	Has the soil analytical data for the site been provided in tabular format?			X
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	X		
34	Has the current and historical laboratory data been provided in tabular format? (Table 1)			X
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			X
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			X
37	Has the topographic map been provided with all required elements? (Figure 1)	X		
38	Has the site base map been provided with all required elements? (Figure 2)	X		
39	Have the CoC site maps been provided? (Figures 3)	X		
40	Has the site potentiometric map been provided? (Figure 4)	X		
41	Have the geologic cross-sections been provided?			X
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			X
43	Has the site survey been provided and include all necessary elements?			X
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix A)	X		
45	Is the laboratory performing the analyses properly certified?	X		
46	Has the tax map been included with all necessary elements? (Appendix B)			X
47	Have the soil boring/field screening logs been provided?			X
48	Have the well completion logs and SCDHEC Form 1903 been provided?			X
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided?			X
50	Have the disposal manifests been provided? (Appendix C)			X
51	Has a copy of the local zoning regulations been provided?			X
52	Has all fate and transport modeling been provided?			X
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix D)			X
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided? (Appendix E)	X		

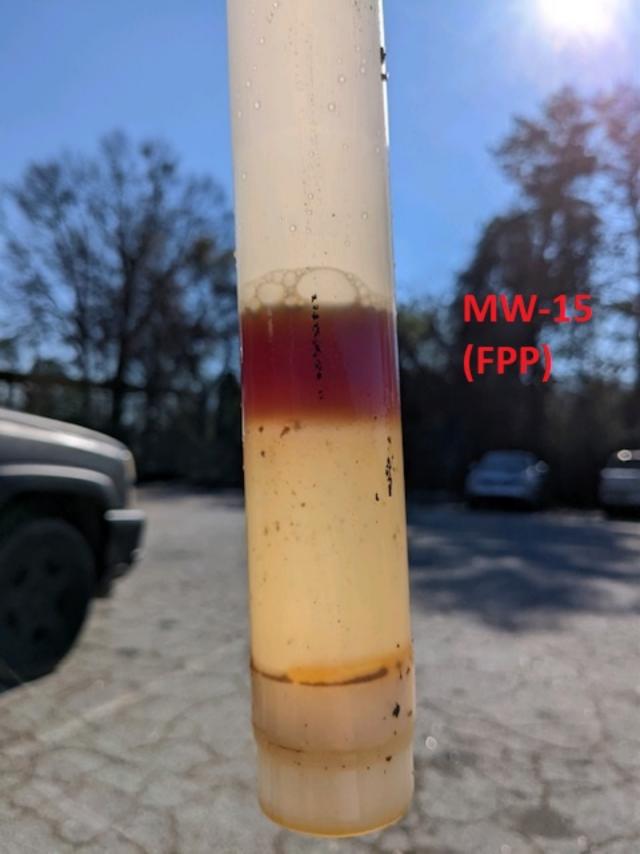
APPENDIX F:

PHOTOS











Document Receipt Information

Hard Copy	CD	Email	
Date Received	10-1-2015		
	11929		
Project Manager	Kevin Bar	nes	
Name of Contractor	BLE		
UST Certification Num	ber		<u></u>
Docket Number			
Scanned			
	UP - GW S	Sampling &	- Event



September 28, 2015

South Carolina Department of Health and Environmental Control Underground Storage Tank Management Division 2600 Bull Street
Columbia, South Carolina 29201-1708

Attention: Mr. Kevin Barnes, G.I.T.

Hydrogeologist

Subject: Site Specific Work Plan – Groundwater Sampling Event

Former Ryder Truck Terminal

10 Woods Lake Drive

Greenville, Greenville County, South Carolina

UST Permit #11929

BLE Project No. J15-1010-21

Dear Mr. Barnes:

On behalf of Ms. Ingrid Auten, Bunnell-Lammons Engineering, Inc. (BLE) submits herein the completed Site Specific Work Plan (SSWP) for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) SSWP request dated August 13, 2015, for the implementation of a groundwater sampling event at the subject site.

Please do not hesitate to contact us if you have any questions concerning this submittal.

Sincerely,

m

Trevor J. Benton, P.G. Senior Hydrogeologist

Registered, South Carolina No. 23

BUNNELL-LAMMONS ENGINE

Thomas L. Lammons, P.G., CHM

Principal Hydrogeologist

Registered, South Carolina No. 893

PHONE (864) 288-1265

(864) 288-4430

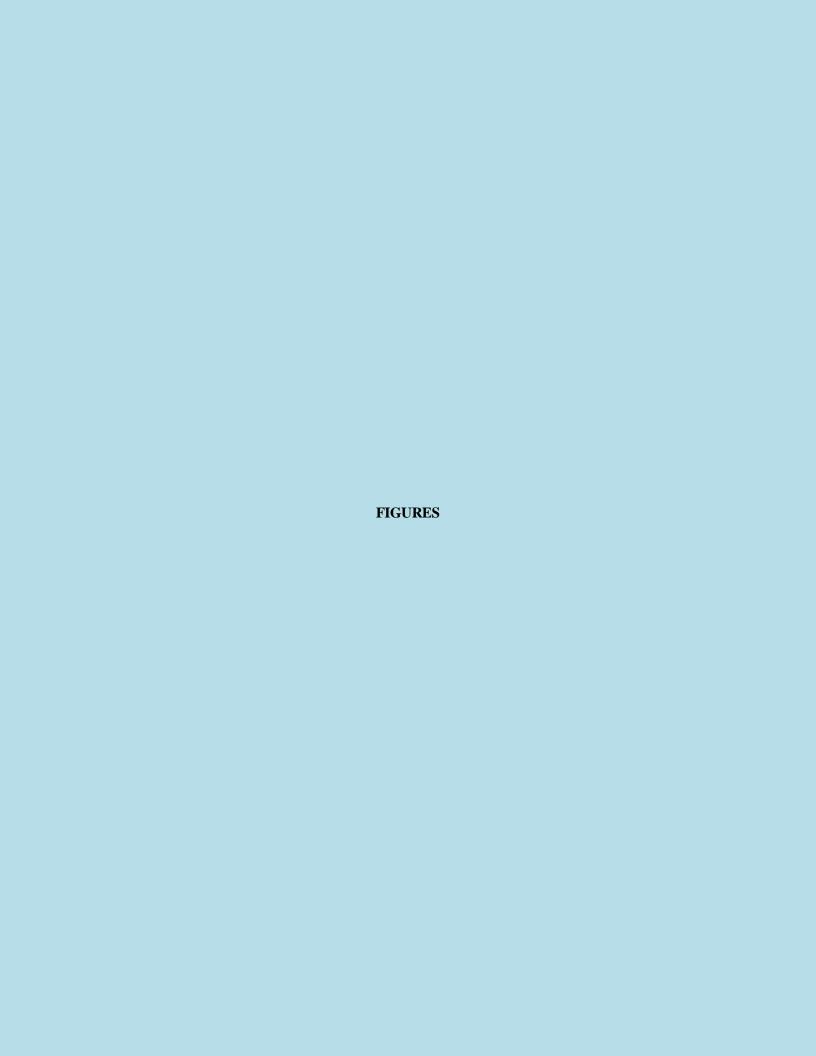
cc: Mr. Ingrid Auten, C/O Annie Mumbauer, BB&T, P.O. Box 408, Greenville, SC 29602

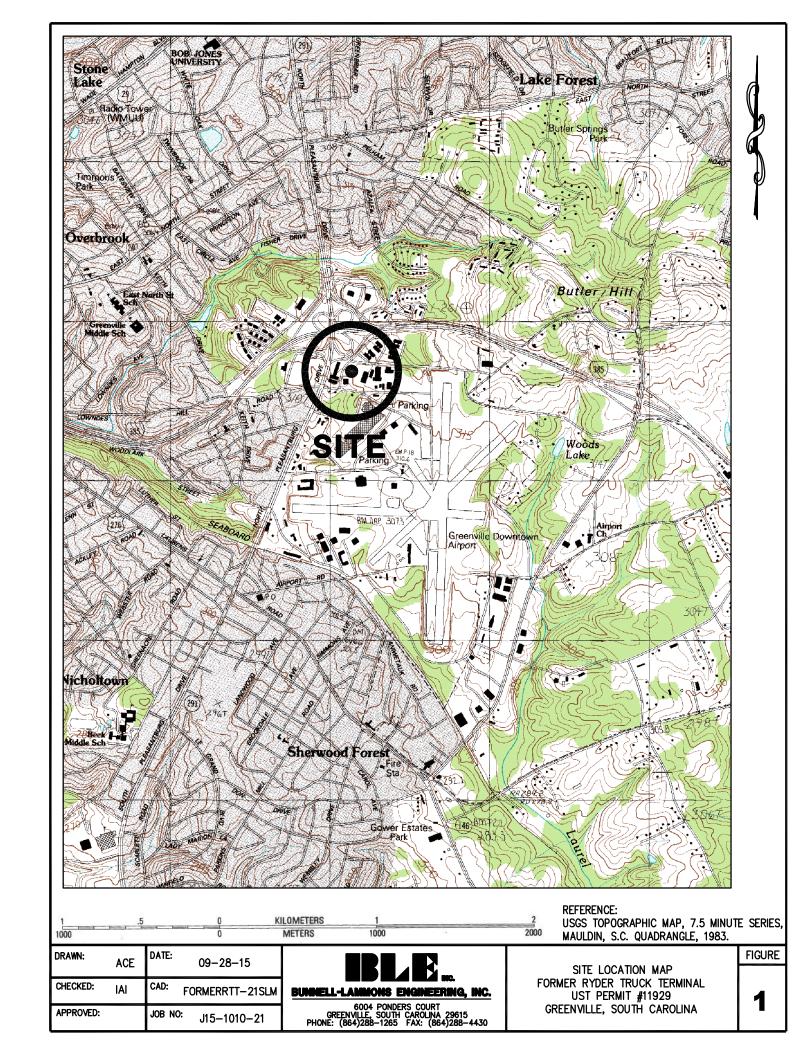


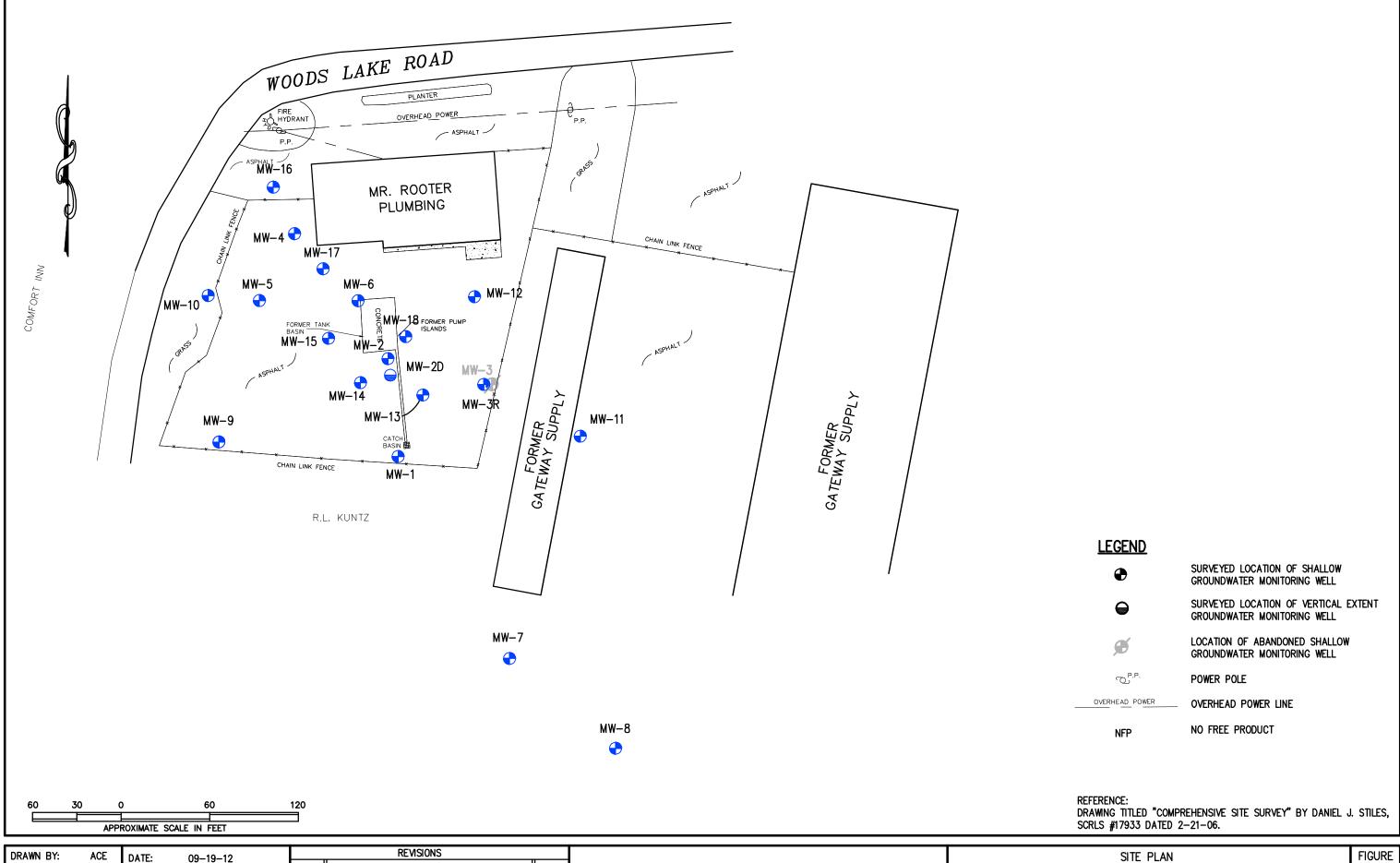
Site-Specific Work Plan for Approved ACQAP Underground Storage Tank Management Division

To: Mr. Kevin Barnes	DHEC Project Manager)					
From: Mr. Trevor Benton (Contractor Project Manager) Contractor: Bunnell-Lammons Engineering, Inc. UST Contractor Certification Number: UCC-0010						
Facility Name: Former Ryder Tri Facility Address: 10 Woods Lak Responsible Party: Ms. Ingrid A RP Address: P.O. Box 408, Gree Property Owner (if different):	uck Terminal e Drive,Greenville, South Carolina 2 uten C/O Annie Mumbauer enville, South Carolina 29602 Wheeler Properties, LLC Yoods Lake Road, Greenville, South	UST Permit #: _ 29607 Phone:	<u> </u>			
Scope of Work (Please check IGWA ITIE I IGWA ITIE I IGWA		☑ Groundwater Sampling □ Other	□ GAC			
Analyses (Please check all th	at apply)					
Groundwater/Surface Water: ☑ BTEXNMDCA (8260B) ☑ Oxygenates (8260B) ☑ EDB (8011) ☐ PAH (8270D)	☐ Lead ☐ 8 RCRA Metals ☐ TPH ☐ pH	☐ BOD ☐ Nitrate ☐ Sulfate ☐ Other	☐ Methane☐ Ethanol☐ Dissolved Iron			
Soil: BTEXN PAH Air: BTEXN	☐ 8 RCRA Metals ☐ Oil & Grease (9071)	☐ TPH-DRO (3550B/8015B) ☐ TPH-GRO (5030B/8015B)	☐ Grain Size☐ TOC			
Sample Collection (Estimate Soil Monitoring Wells	the number of samples of each Water Supply W O Surface Water	matrix that are expected to be co fells Air 1 Duplicate	llected.) 1 Field Blank 1 Trip Blank			
Field Screening Methodology Estimate number and total completed depth for each point, and include their proposed locations on the attached map. # of shallow points proposed: 0						
# of shallow wells: 0 # of deep wells: 0 # of recovery wells: 0	Estimated Estimated Estimated	include their proposed locations of Footage: 0	feet per point feet per point feet per point			

UST Permit #: <u>11929</u> Fac	cility Name: <u>F</u>	Former Ryder Truck Terminal	
Implementation Schedule (Number of ca Field Work Start-Up: 45 Report Submittal: 90		from approval) Field Work Completion: 60 # of Copies Provided to Property Owners: 1	
Aquifer Characterization Pump Test: □ Slug Test: □ (Check or NA	•	de explanation below for choice)	
Investigation Derived Waste Disposal Soil: 0	Tons	Purge Water: 50	Gallons
Soil: 0 Drilling Fluids: 0	Gallons	Purge Water: 50 Free-Phase Product: 0	_ _ Gallons
event, etc. Monitoring wells MW-1, MW-2, MW-2D, MW-3F	s to be aband R, and MW-4 t	doned/repaired, well pads/bolts/caps to replace, details of hrough MW-18 will be purged and sampled during this scope with BLE's approved Annual Contractor Quality Assurance Pla	of work.
Name of Laboratory:	(Yes/No) (Yes/No)	If no, indicate laboratory information below. If no, indicate driller information below.	
SCLLR Certification Number:			
No Other variations from ACQAP. Please	e describe be	elow.	
Attachments 1. Attach a copy of the relevant portion	on of the USC	GS topographic map showing the site location.	
 Prepare a site base map. This ma must include the following: North Arrow Location of property lines Location of buildings Previous soil sampling locations Previous monitoring well locations Proposed soil boring locations Assessment Component Cost Agree 	Proposed in Legend with Streets or handle Location of Location of Location of the Location of	ccurately scaled, but does not need to be surveyed. The monitoring well locations the facility name and address, UST permit number, and brighways (indicate names and numbers) fall present and former ASTs and USTs fall potential receptors OHEC Form D-3664	·







DRAWN BY:	ACE	DATE:	09-19-12	REVISIONS		
		DATE.	09-19-12	No.	DESCRIPTION	BY
CHECKED BY:	IAI	FILE:	FORMERRTT-19FPTM			
APPROVED BY:		JOB NO:	J12-1010-19			



BUNNELL-LAMMONS ENGINEERING, INC. 6004 PONDERS COURT GREENVILLE, SOUTH CAROLINA 29615 PHONE: (864)288-1265 FAX: (864)288-4430 SITE PLAN
FORMER RYDER TRUCK TERMINAL
SCDHEC UST PERMIT #11929
10 WOODS LAKE ROAD
GREENVILLE, SOUTH CAROLINA

FIGURE

2





ASSESSMENT COMPONENT COST AGREEMENT **SOUTH CAROLINA**

Department of Health and Environmental Control Underground Storage Tank Management Division State Underground Petroleum Environmental Response Bank Account

Facility Name:	Former Ryder Truck

UST Permit #:	Cost	Agreement #:		
ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. Plan Preparation				
A1. Site-specific Work Plan	1	each	\$150.00	\$150.00
B1. Tax Map		each	\$70.00	\$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	\$250.00	\$0.00
2. A1. Receptor Survey *		each	\$551.00	\$0.00
3. Survey (500 ft x 500 ft)				
A1. Comprehensive Survey		each	\$1,040.00	\$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	\$1,300.00	\$0.00
2B. > 10 meters below grade		each	\$2,310.00	\$0.00
C1. Geophysical UST or Drum Survey		each	\$910.00	\$0.00
4. Mob/Demob				
A1. Equipment		each	\$1,020.00	\$0.00
B1. Personnel	2	each	\$423.00	\$846.00
C1. Adverse Terrain Vehicle		each	\$500.00	\$0.00
5. A1. Soil Borings (hand auger)*		foot	\$5.00	\$0.00
6. Soil Borings (requiring equipment, push technology, etc.)				
Field Screening (including water ssample, soil sample, s	oil gas sam	•		
A1. Standard		per foot	\$15.00	\$0.00
C1. Fractured Rock		per foot	\$20.20	\$0.00
7. A1. Soil Leachability Model		each	\$60.00	\$0.00
8. Abandonment (per foot)*			40.40	40.00
A1. 2" diameter or less		per foot	\$3.10	\$0.00
B1. Greater than 2" to 6" diameter		per foot	\$4.50	\$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	\$15.00	\$0.00
9. Well Installation (per foot)*			¢10.70	#0.00
A1. Water Table (hand augered)		per foot	\$10.60	\$0.00
B1. Water Table (drill rig)		per foot	\$38.00	\$0.00
C1. Telescoping		per foot	\$50.00	\$0.00
D1. Rock Drilling		per foot	\$58.00	\$0.00
E1. 2" Rock Coring		per foot	\$30.90	\$0.00
G1. Rock Multi-sampling ports/screens		per foot	\$33.40	\$0.00
H1. Recovery Well (4" diameter)		per foot	\$45.00 \$15.00	\$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	\$15.00 \$44.00	\$0.00 \$0.00
J1. Rotosonic (2" diameter)		per foot		
K. Re-develop Existing Well10. Groundwater Sample Collection / Gauge Depth to Water	r or Broduc	per foot	\$11.00	\$0.00
A1. Groundwater Purge	19		\$60.00	\$1,140.00
B1. Air or Vapors	17	per well/receptor	\$12.00	\$1,140.00
C1. Water Supply		per receptor per well/receptor	\$12.00 \$22.00	\$0.00
	1	per well/receptor	\$22.00 \$28.00	\$28.00
D1. Groundwater No Purge or Duplicate 1 dup E1. Gauge Well only		per well	\$26.00 \$7.00	\$0.00
F1. Sample Below Product		per well	\$7.00 \$12.00	\$0.00
G1. Passive Diffusion Bag		each	\$12.00 \$26.00	\$0.00
H1. Field Blank	1	each	\$20.00 \$24.60	\$24.60
III. I ICIU DIAIIK	ı	cacii	\$ 24.00	φ 24.00

11. Laboratory Analyses-Groundwater				
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	22	nor camplo	\$122.00	\$2,684.00
	22	per sample	\$122.00	
AA1. Lead, Filtered		per sample		\$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	\$153.60	\$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	\$36.40	\$0.00
D1. PAH's		per sample	\$60.60	\$0.00
E1. Lead		per sample	\$16.00	\$0.00
F1. EDB by EPA 8011	21	per sample	\$45.20	\$949.20
FF1. EDB by EPA Method 8011 Rush		per sample	\$68.20	\$0.00
G1. 8 RCRA Metals		per sample	\$63.40	\$0.00
H1. TPH (9070)		per sample	\$41.00	\$0.00
II. pH		per sample	\$5.20	\$0.00
J1. BOD		per sample	\$20.00	\$0.00
PP. Ethanol		per sample	\$14.80	\$0.00
11. Analyses-Soil		-		
Q1. BTEX + Naphth.		per sample	\$64.00	\$0.00
R1. PAH's		per sample	\$64.04	\$0.00
S1. 8 RCRA Metals		per sample	\$56.40	\$0.00
U1. TPH-DRO (3550C/8015C)		per sample	\$40.00	\$0.00
V1. TPH- GRO (5030B/8015C)		per sample	\$35.96	\$0.00
W1. Grain size/hydrometer		per sample	\$104.00	\$0.00
X1. Total Organic Carbon		per sample	\$30.60	\$0.00
11. Analyses-Air		p a campac	, , , , ,	7 3 1 3 3
Y1. BTEX + Naphthalene		per sample	\$216.00	\$0.00
11. Analyses-Free Phase Product		por sample	\$2.10.00	Ψ0.00
Z1. Hydrocarbon Fuel Identification		per sample	\$357.00	\$0.00
12. Aquifer Characterization		por oumpro	7007100	70.00
A1. Pumping Test*		per hour	\$23.00	\$0.00
B1. Slug Test*		per test	\$191.00	\$0.00
C1. Fractured Rock		per test	\$100.00	\$0.00
13. A1. Free Product Recovery Rate Test*		each	\$38.00	\$0.00
14. Fate/Transport Modeling		Cacii	Ψ30.00	Ψ0.00
A1. Mathematical Model		each	\$100.00	\$0.00
B1. Computer Model		each	\$100.00	\$0.00
15. Risk Evaluation		Cacii	Ψ100.00	Ψ0.00
A. Tier I Risk Evaluation		each	\$300.00	\$0.00
B1. Tier II Risk Evaluation		each	\$100.00	\$0.00
16. A1. Subsequent Survey*		each	\$260.00	\$0.00
17. Disposal (gallons or tons)*		CaCII	φ200.00	φυ.υυ
AA. Wastewater	50	gallon	\$0.56	\$28.00
BB. Free Product	30	gallon	\$0.50	\$0.00
C1. Soil Treatment/Disposal		yallon ton	\$60.00	\$0.00
D1. Drilling fluids		gallon	\$0.42	\$0.00
18. Miscellaneous (attach receipts)		yailui	\$U.4Z	\$0.00
10. IVII SCEII AII EUUS (ALLACIT TECEI PLS)		oach	\$0.00	¢0.00
		each	\$0.00	\$0.00
		each	\$0.00	\$0.00
20 Tion I Accomment (Ilea DIEC 2//E farms)		each	\$0.00	\$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard		\$0.00
21. IGWA (Use DHEC 3666 form)		standard		\$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid		\$0.00

23. Aggressive Fluid & Vapor Recovery (AFVR)				
A1. 8-hour Event*		each	\$1,375.00	\$0.00
A2. 24-hour Event*		each	\$3,825.00	\$0.00
A3. 48-hour Event*		each	\$6,265.00	\$0.00
A4. 96-hour Event*		each	\$12,567.50	\$0.00
C1. Off-gas Treatment 8 hour		per event	\$122.50	\$0.00
C2. Off-gas Treatment 24 hour		per event	\$241.50	\$0.00
C3. Off-gas Treatment 48 hour		per event	\$327.00	\$0.00
C4. Off-gas Treatment 96 hour		per event	\$780.00	\$0.00
D. Site Reconnaissance		each	\$203.25	\$0.00
E1. Additional Hook-ups		each	\$25.75	\$0.00
F1. Effluent Disposal		gallon	\$0.44	\$0.00
G. AFVR Mobilization/Demobilization		each	\$391.50	\$0.00
24. Granulated Activated Carbon (GAC) filter system installa	ation & serv	vice:		
A1. New GAC System Installation*		each	\$1,900.00	\$0.00
BB. Refurbished GAC Sys. Install*		each	\$900.00	\$0.00
C1. Filter replacement/removal*		each	\$350.00	\$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	\$275.00	\$0.00
E1. GAC System housing*		each	\$250.00	\$0.00
F. In-line particulate filter		each	\$150.00	\$0.00
G1. Additional piping & fittings		foot	\$1.50	\$0.00
25. Well Repair				
A1. Additional Copies of the Report Delivered	1	each	\$50.00	\$50.00
B1. Repair 2x2 MW pad*		each	\$50.00	\$0.00
C1. Repair 4x4 MW pad*		each	\$88.00	\$0.00
D1. Repair well vault*		each	\$118.00	\$0.00
F1. Replace well cover bolts		each	\$2.60	\$0.00
G. Replace locking well cap & lock		each	\$15.00	\$0.00
H1. Replace/Repair stick-up*		each	\$134.00	\$0.00
II. Convert Flush-mount to Stick-up*		each	\$150.00	\$0.00
J1. Convert Stick-up to Flush-mount*		each	\$130.00	\$0.00
K1. Replace missing/illegible well ID plate		each	\$12.00	\$0.00
Report Prep & Project Management	12%	percent	\$5,899.80	\$707.98
TOTAL				\$6,607.78

^{*}The appropriate mobilization cost can be added to complete these tasks, as necessary