Second Quarter 2017 Water Table Corrective Measures Implementation Report

Pinewood Site
Pinewood, South Carolina
SCD 070 375 985

Prepared for:

Pinewood Trustee, Inc.
c/o Moore & Van Allen, PLLC
Pinewood Site Custodial Trust
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Pinewood Site
Custodial Trust

July 2017

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S+G Project No. Pinewood-12-8

I certify that environmental monitoring documents prepared for the Pinewood Landfill Site under the Agreement between Kestrel Horizons, LLC as Trustee of the Pinewood Site Custodial Trust (Owner) and Smith Gardner, Inc. (Engineer) dated January 1, 2014 as amended, including Amendment A-12 substituting Pinewood Interim Administrator, Inc. as Interim Administrator of the Pinewood Site Custodial Trust (Owner), have been prepared and reviewed in accordance with accepted quality control. Pinewood Trustee, Inc. is the successor to Pinewood Interim Administrator, Inc., and is the current Trustee of the Pinewood Site Custodial Trust. My South Carolina licensed professional geologist seal and signature on a document constitutes a certification that the document was prepared by me or under my direct supervision, and that I have reviewed the document in sufficient depth to fully coordinate and assume responsibility for materials prepared by another registrant..

SMITH GARDNER, INC.

Bobby Wolf, P.G.
Project Geologist

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Senior Geologist

July 2017

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List of Acronyms

1,1-DCE	1,1-Dichloroethylene
1,1-DCA	1,1-Dichloroethane
°C	Degrees Celsius
Cis-1,2-DCE	Cis-1,2-Dichloroethene
DMP	Detection Monitoring Program
EPA	United States Environmental Protection Agency
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MSL	Mean Sea Level
NPDES	National Pollutant Discharge Elimination System
NTU	Nephelometric Turbidity Units
OC	Opaline Claystone
PCE	Tetrachloroethylene
PDB	Passive Diffusion Bag
POC	Point of Compliance
PQL	Practical Quantitation Limit
PSCT	Pinewood Site Custodial Trust
PSDL	Primary Sawdust Landing
PSSB	Primary Stormwater Sedimentation Basin
RCRA	Resource Conservation and Recovery Act
S+G	Smith Gardner, Inc.
SAP	Sampling and Analysis Plan
SBD	Sand Blanket Drains
SCDHEC	South Carolina Department of Health and Environmental Control
Shealy	Shealy Environmental Services, Inc.
Site	Pinewood Site
SSDL	Secondary Sawdust Landing
SU	Standard Units
SWMU	Solid Waste Management Units
TCE	Trichloroethylene
TLS	Transitional Lang Syne
Trans-1,2-DCE	Trans-1,2-Dichloroethene
UBC-A	Upper Black Creek – A Zone
UBC-B	Upper Black Creek – B Zone
µg/L	Micrograms per Liter
umhos/cm	Micromhos per Centimeter
VOCs	Volatile Organic Compounds
WT	Water Table
WTCMIP	Water Table Corrective Measures Implementation Program

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1.0 INTRODUCTION

S+G was retained by the PSCT to conduct quarterly monitoring of the shallow groundwater zones at the Site in accordance with the methods outlined in the approved DMP SAP[1]. The second-quarter 2017 monitoring event continues the quarterly WTCMIP associated with historical, non-landfill SWMUs related to mining operations formerly conducted at the Site. The WTCMIP includes sampling of select WT and OC aquifer groundwater monitoring wells, perimeter French drains, the Section I French drain, SBDs, PDBs, pond outfalls, and the Section III French drains FD002 and FD004. A map of the Site, depicting the locations of the WTCMIP monitoring points, is included as **Figure 1**. Additional Site, WTCMIP background, and hydrostratigraphic information is presented in **Appendix A**. This report presents the analytical results obtained during the second-quarter monitoring event of 2017.

[1] Ground Water Sampling and Analysis Plan, Interim Status Monitoring, Pinewood Secure Landfill (SCD 070375985). October 15, 2003.

2.0 CONCLUSIONS

2.1 Conclusions

The second-quarter 2017 WTCMIP conclusions are presented below. These conclusions are supported by the findings, listed as bulleted items, which are derived from information presented later in this report or as otherwise referenced.

1. Second-quarter 2017 WTCMIP sample analytical results are generally consistent with historically reported results.
    - Elevated PCE concentrations persist in groundwater collected from WT monitoring wells WT008, WT036, WT037, and WT038.
    - Barium was detected in samples collected from WT monitoring wells WT008, WT026, WT027, WT030, and WT032 during the second-quarter monitoring event. Barium was detected at concentrations that are below its MCL and consistent with naturally occurring background levels and historically reported results.
    - Mercury was detected at a concentration below its MCL in the sample collected from WT monitoring well WT008 during the second-quarter monitoring event. Mercury was detected at a concentration that is consistent with historically reported results.
    - Wells OCS002 and OCS008R were the only OC wells with reported detections during the second quarter of 2017. The concentrations of cis-1,2-DCE; PCE; and TCE observed in groundwater from OCS002 during the second quarter monitoring event are generally consistent with the levels observed since 2013. The concentration of cis-1,2-DCE detected in groundwater from OCS008R is generally consistent with the levels observed in samples collected from OCS008/OCS008R since 2013. No other constituents were detected in the sampled OC wells.
    - PCE and TCE remain the primary constituents of concern observed in the groundwater samples collected from SBD#1 and SBD#2. PCE and TCE were detected at concentrations above their MCLs in the samples collected from both SBDs during the second-quarter 2017 sampling event.
    - Lead was the only inorganic analyte detected in the French drain system during the second quarter of 2017. Additionally, barium was detected at a concentration below its MCL in the surface water sample collected at the Pond A location.
        - Lead was observed in the sample obtained from the perimeter French drain outfall at Pond A during the June 2017 monitoring event. The concentration of lead detected was below its MCL. Lead is not typically observed in the perimeter French drain outfall samples and had not been detected since the second quarter of 2009.

    - The concentration of barium detected in the Pond A surface water sample is consistent with historical observations, and is attributable to naturally occurring conditions.
- The VOCs 1,1-DCA and 1,4-dioxane were observed in the samples collected from Section I French drain manhole 5 during the April, May, and June 2017 sampling events. No MCLs have been established for these compounds.
- The VOC 1,1-DCA was observed in the sample collected from the Section I French drain outfall at Pond A during the June 2017 sampling event. The only other detection of 1,1-DCA at the Section I French drain Pond A outfall location occurred in September of 2006 at a similar low concentration. No MCL has been established for this compound.

2. Historical, non-landfill related SWMUs continue to affect WT and OC aquifer groundwater quality in the WT008 area.
    - WT008 area investigation reports completed in October 2011[2] and March 2013[3] identified the source area for the constituents detected in the WT and OC aquifer groundwater. The source area was determined to be located between landfill Section III and WT008, near the former maintenance shop and drum storage area used prior to, and during, the period of time that the facility was receiving waste.
    - Cis-1-2-DCE and TCE were detected at concentrations exceeding their MCLs in the PDB samples PDB004 (TCE) and PDB005 (cis-1,2-DCE and TCE) collected from the East Meadow low area during the second-quarter 2017 monitoring event. These VOCs have historically been observed in groundwater in the WT008 area. The presence of these VOCs in the PDB samples indicates continued migration of VOCs away from the source area toward the East Meadow low area.
    - Samples collected from the Section III French drains located in close proximity to the WT008 area (French drains FD002 and FD004) contained concentrations of PCE above its MCL. While still elevated, concentrations of PCE in the Section III French drain samples have decreased significantly since pumping resumed in November 2015.

[2] *Phase II Report for Groundwater Assessment Near Well WT008, Pinewood Site*, SCD 070 375 985, Pinewood, South Carolina, Prepared by Richardson Smith Gardner & Associates, Inc., October 2011
[3] *Phase III Report of Assessment Near Well WT008, Pinewood Site*, SCD 070 375 985, Pinewood, South Carolina, Prepared by Smith Gardner, Inc., March 14, 2013

3.0 SITE HYDROGEOLOGY

3.1 Geology

The Site is located in the Coastal Plain physiographic province of South Carolina. The Coastal Plain consists of a wedge-shaped deposition of unconsolidated sediments that thickens to the southeast in the direction of the Atlantic Ocean and is characterized by generally flat topography and poorly drained soils.

Seven hydrogeologic zones have been identified within the "uppermost aquifer"[4] at the Site. These zones are presented in descending order as follows:

Shallow Zones

1. WT
2. OC

Deeper Zones (water quality reported separately)

3. TLS
4. SSDL
5. PSDL
6. UBC-A
7. UBC-B

The WT zone consists of variegated clay locally containing sand lenses and quartz pebbles. The WT is the most shallow hydrogeologic zone but is absent from the majority of the Site. The WT zone was removed from the three landfill sections and most of the PSSB during construction. The landfill sections and PSSB are constructed within the underlying OC. Additionally, two SBDs (SBD#1 and SBD#2), installed in the PSSB sidewalls, dewater the WT aquifer in the area to the southeast of the Section III landfill to prevent the off-site migration of groundwater affected by historical, non-landfill SWMUs. Portions of the WT zone are dewatered by a supplemental French drain system installed parallel to the Site perimeter and portions of Section I.

The OC underlies the WT zone. The top portion of the OC is weathered and fractured while the lower portion is more consolidated and massive. Groundwater occurs within the weathered upper portion of the OC, perched atop the more massive lower horizon. Previous investigations have determined that the OC has low permeability and does not yield sufficient groundwater for monitoring except where the unit is sufficiently fractured or where discontinuous sand lenses exist (predominantly on the eastern portion of the site). Groundwater present within the sand lenses is under water table conditions. Water quality data from wells completed in these sand lenses are included in this monitoring report. The lower portion of the OC is massive and dense, and it forms the base of the landfill units. Each landfill unit is underlain by at least 10 feet of OC.

[4] As determined by the SCDHEC

The OC is underlain by the TLS and deeper zones (SSDL, PSDL, UBC-A, and UBC-B). Water quality data from the TLS zone and the monitored hydrogeologic zones beneath it are reported separately in quarterly and annual DMP reports.

3.2 Groundwater Flow

The PSSB (formerly referred to as the First Flush Basin) and the East Meadow low area (a topographically low area positioned southeast of WT008 and east-southeast of the PSSB) influence localized groundwater flow directions in the WT zone. Groundwater in this area ultimately migrates into the cone of depression created by the SBDs within the side slopes of the PSSB. In addition, these SBDs capture shallow groundwater in the areas between the PSSB and Section I to the south and between the PSSB and Section III to the north. To the west of the cone of depression, groundwater flows to the southwest and discharges into the Drainage Channel and Pond A. Historically, groundwater has been observed discharging to the central Drainage Channel in the transition zone between the WT and the OC.

Figure 2 presents the WT potentiometric surface map based on the second-quarter 2017 groundwater elevation measurements obtained from 27 WT wells, 10 OC wells, and 4 staff gauges. Groundwater elevations beneath the PSSB were assumed, based on its bottom elevation of 95 to 97 feet above MSL. Dry conditions are maintained within the PSSB through the capture of groundwater by the SBDs installed on the northern, eastern, and southern sides of the PSSB. The recovered groundwater is transferred to lined storage (aeration) basins for treatment. Treated groundwater is discharged to the central Drainage Ditch through an internal NPDES-permitted outfall (01A) to Pond A, which discharges off-site through a NPDES-permitted outfall (001).

Shallow groundwater on the northern portions of the property is captured by a section of the perimeter French drain system. This portion of the perimeter French drain system feeds into Pond B and is discharged off-site through a NPDES permitted outfall (002).

4.0 MONITORING

This report addresses the WT zone and localized sand lenses within the upper portion of the OC zone. The deeper zones are addressed in the DMP, which is reported under separate cover.

4.1 Water Table Monitoring Network

The WTCMIP network at the Site currently consists of the following:

- Twenty-seven WT wells;
- Ten OC sand lens wells;
- Two SBDs constructed beneath the lined PSSB;
- Two outfalls from the Perimeter French drain system;
- Five manholes in the Section I French drain;
- One Section I French drain outfall;
- Pond A Surface Water;
- Pond A (Outfall 001);
- Pond B (Outfall 002);
- Three PDBs installed within the East Meadow low area; and,
- Section III French drains FD002 and FD004.

The locations of the WTCMIP sampling points are shown on Figure 1.

During December 2014 and January 2015, several new POC groundwater monitoring wells were installed within the WT zone around the single-lined portions of the Section 1 and Section 2 landfill units. Although these wells are screened within the WT zone, they are included in the Detection Monitoring network and are addressed in the DMP, which is reported under separate cover. Groundwater elevation measurements obtained from these wells are, however, used in constructing the WT potentiometric surface map (Figure 2).

4.2 Sampling Information

Sample collection procedures followed the methods outlined in the approved DMP SAP, where applicable. Each well was gauged to determine the depth to groundwater and then purged of three to five well volumes or until dry. Field measurements for pH, specific conductivity, and temperature were recorded at each well during purging.

Samples were collected by S+G and were analyzed for RCRA metals and VOCs. The specific analytical parameters analyzed during the quarterly sampling event are presented in Appendix B.

Shealy, located in Columbia, South Carolina (SCDHEC laboratory certification No. 32010), analyzed the samples in accordance with EPA and SCDHEC approved methodologies. All samples that included analysis for 1,4-dioxane (French drain samples, pond samples,

etc.) were analyzed via EPA Test Method 8260B SIM which is capable of achieving significantly lower MDL and PQL values than Method 8260B. Quality control procedures, including field blanks, trip blanks, calibration standards, duplicates, and spikes, were used to assess the bias and precision associated with the sample results. The laboratory Reports of Analysis and the field data information sheets for this sampling event are presented in **Appendix C**.

5.0 ANALYTICAL RESULTS

Detected constituents were compared with South Carolina MCLs per South Carolina Administrative Rule R.61-68. Parameters detected at concentrations below the parameter-specific PQL but above or equal to the MDL are reported and "J" flagged to indicate the result is an estimated value. The laboratory Reports of Analysis, chain-of-custody documentation, and field data sheets are included in **Appendix C**. The locations where the detected constituents were observed are illustrated on **Figure 3**.

5.1 Water Table Wells

As part of the routine WTCMIP, five WT wells (WT008, WT026, WT027, WT030, and WT032) were sampled for groundwater quality including field parameters, inorganics, and priority pollutant VOCs. Additionally, S+G personnel sampled wells WT036, WT037, and WT038 for field parameters and priority pollutant VOCs due to continued detections of VOCs associated with the ongoing WT008-area assessment. The second-quarter 2017 laboratory analytical results from these WT wells have been included in this report. The locations of the WT monitoring wells are illustrated on **Figure 1**.

Field Parameters

Groundwater sampled from the WT wells during the second-quarter event had pH values between 4.45 SU (WT036) and 6.12 SU (WT026). Conductivity values in groundwater ranged from 137.5 umhos/cm (WT008) to 1163 umhos/cm (WT032). Turbidity ranged from 2.64 NTU (WT032) to 47.50 NTU (WT036). Temperature ranged from 19.4 °C (WT027) to 23.1 °C (WT036). Field parameter measurements and water table elevation data obtained from the WT wells are summarized in **Table 1**.

Inorganic Results

Barium (WT008, WT026, WT027, WT030, and WT032) and mercury (WT008) were detected in samples collected during the second-quarter monitoring event. Barium and mercury were detected at concentrations below their respective MCLs and consistent with naturally occurring background levels and/or historically reported results.

The inorganic samples were not filtered; therefore, based on local geology, sample turbidity, and a comparison with historical results, it is likely these detected constituents occur naturally in the general range of the observed concentrations unless noted otherwise.

VOC Results

PCE was detected above its MCL (5 µg/L) in the following WT wells:

- WT008 (150 µg/L);
- WT036 (6.1 µg/L);
- WT037 (56 µg/L); and
- WT038 (6.5 µg/L).

The PCE concentration detected in groundwater from WT008 (noted above) decreased since the first quarter of 2017. **Table 2** presents a historical summary of the constituents observed in samples collected from WT008. As shown on **Table 2**, several VOCs (1,1-DCE; PCE; and TCE) began appearing consistently in samples collected from WT008 during the third quarter of 2009. While the concentrations of these analytes fluctuated, the VOCs detected remained relatively consistent until the first quarter of 2012. Since the second quarter of 2013, PCE and cis-1,2-DCE have been the only VOCs routinely observed in samples collected from WT008. Due to its persistent detection at concentrations exceeding the MCL, PCE is the primary constituent of concern at WT008. A chart illustrating PCE detections at WT008 as a function of time is presented as **Figure 4**. As shown on **Figure 4**, PCE concentrations have fluctuated since the third-quarter of 2009, but are currently well below the historical maximum concentration of 1,950 µg/l detected in August 2011.

PCE concentrations at WT037 have fluctuated since the second-quarter 2013 sampling event. However, PCE concentrations in WT036 and WT038 have remained relatively stable since the fourth quarter of 2012.

No other WT well groundwater samples exhibited VOC concentrations above their respective MCLs. A summary of the parameters detected above MDL values in the WT wells during the second quarter of 2017 is provided as **Table 3**.

5.2 Opaline Claystone Sand Lens Wells

As part of the routine WTCMIP, OC wells completed in sand lenses contained within the OC were sampled for groundwater quality including field parameters, inorganics, and priority pollutant VOCs. These well locations are shown on **Figure 1**.

Field Parameters

Groundwater sampled from OC wells during the second-quarter 2017 monitoring event had measured pH values between 5.06 SU (OCS003B) and 6.32 SU (OCS005). Conductivity values in groundwater ranged from 60.00 umhos/cm (OCS003A and OCS003B) to 233.60 umhos/cm (OCS002). Turbidity ranged from 3.71 NTU (OCS001) to 58.50 NTU (OCS008R). Temperature ranged from 20.30 °C (OCS004R) to 24.10 °C (OCS008R). Field parameter measurements and water table elevation data obtained from the OC wells are summarized in **Table 1**.

Inorganic Results

Inorganic constituents were not detected in the samples collected from the OC wells during the second-quarter 2017 monitoring event.

VOC Results

VOCs detected in OC wells at concentrations above their respective MCLs are summarized below:

- OCS002: PCE at 54 µg/L and TCE at 8.7 µg/L.

PCE concentrations in OCS002 have fluctuated but are below the historical maximum observed during the second-quarter 2007 sampling event. The PCE concentrations observed from 2013 through the second quarter of 2017 have been the lowest detected in OCS002 since 2006.

TCE has historically exceeded its MCL (5 µg/L) in groundwater collected from OCS002. TCE concentrations in OCS002 have fluctuated, but are well below the historical maximum observed during the third-quarter 2012 sampling event.

The samples collected from wells OCS002 and OCS008R contained cis-1,2-DCE (a partial degradation product of PCE) at concentrations of 1.7 µg/L and 5.1 µg/L, respectively. Both concentrations are well below the MCL for cis-1,2-DCE of 70 µg/L and are similar to results observed since the fourth-quarter 2013 monitoring event.

No other VOCs were detected in the OC well samples. A summary of the parameters detected in the OC wells during the second quarter of 2017 is provided in **Table 4**.

5.3 Sand Blanket Drains

Two SBDs (located in the sidewall of the PSSB) are sampled in conjunction with the WTCMIP. The SBD samples were analyzed for priority pollutant VOCs. The locations of the SBD sampling points are shown on **Figure 3**.

VOC Results

Second-quarter 2017 sampling results indicate that PCE and TCE remain the primary constituents of concern observed in the groundwater samples collected from SBD#1 and SBD#2. The concentrations detected during the second-quarter monitoring event exceeded the MCLs for PCE and TCE, but are below peak historical concentrations. The VOCs detected at concentrations above their respective MCLs are summarized below:

- SBD#1: PCE at 26 µg/L and TCE at 5.7 µg/L; and
- SBD#2: PCE at 47 µg/L and TCE at 11 µg/L

Additionally, cis-1,2-DCE was detected in both SBD samples at concentrations well below its MCL;1,1-DCA was observed at a concentrations of 1.1 µg/L (no MCL has been established for 1,1-DCA) in the SBD#1 sample; and 1,1-DCE was detected at a concentration well below its MCL in the SBD#2 sample.

Summaries of historical analytical results for SBD#1 and SBD#2 are presented in **Tables 5** and **6**, respectively. Time versus concentration graphs illustrating PCE and TCE fluctuations at SBD#1 and SBD#2 are presented as **Figures 5** and **6**, respectively. The graphs indicate that, for both SBDs, PCE concentrations have fluctuated significantly since 2005 while TCE concentrations have remained relatively stable (within the same order of magnitude). Additionally, based on a review of **Tables 5** and **6**, no significant trends indicating the occurrence of contaminant degradation, such as decreasing parent constituent concentrations coupled with increasing daughter (degradation product) constituent concentrations, are evident.

5.4 Section I French Drains

Monthly samples are collected from the five Section I French drain manholes and the outfall of the Section I French drain into Pond A. These samples are analyzed for inorganics and the Appendix IX list of VOCs. The Section I French drain sampling locations are shown on **Figure 1**.

Inorganic Results

No inorganic constituents were detected during the second-quarter 2017 monitoring period.

VOC Results

The VOCs 1,1-DCA and 1,4-dioxane were observed in the samples collected from Section I French drain manhole 5 during the April, May, and June 2017 sampling events. Additionally, 1,1-DCA was observed in the Section I French drain Pond A outfall location during the June 2017 monitoring event. The only other detection of 1,1-DCA at the Section I French drain Pond A outfall location occurred in September of 2006 at a similar low concentration. No MCLs have been established for these compounds. The presence of these analytes will be closely monitored during the subsequent monthly sampling events.

Laboratory Reports of Analysis and chain-of-custody documentation for the second-quarter 2017 Section I French drain samples are included in **Appendix C**. The Section I French drain sample analytical results for the second quarter of 2017 are summarized in **Table 7**.

5.5 Perimeter French Drains

Two discharge points for the perimeter French drain system, the Pond A outfall and the Pond B outfall, are sampled monthly in conjunction with the WTCMIP. The perimeter French drain sampling locations are shown on **Figure 1**.

The perimeter French drain outfall samples were analyzed for each of the metals included in the Site NPDES permit, with the exception of mercury, as well as the Appendix IX list of VOCs.

Inorganic Results

Lead was detected at a low concentration (below the MCL) in the perimeter French drain Pond A outfall location sample collected during the June 2017 monitoring event. Lead is not typically observed in the perimeter French drain outfall samples and had not been detected at the Pond A outfall location since the second quarter of 2009. Lead concentrations at the perimeter French drain Pond A outfall location will be closely monitored during the subsequent monthly sampling events.

No other inorganic constituents were detected in the perimeter French drain outfall samples collected during the second-quarter 2017 monitoring period.

VOC Results

No VOCs were observed in the perimeter French drain outfall samples collected during the second quarter of 2017.

The laboratory Reports of Analysis and chain-of-custody documentation for the second-quarter 2017 perimeter French drain outfall samples are included in **Appendix C**. The perimeter French drain outfall analytical results for the second quarter of 2017 are summarized in **Table 7**.

5.6 Pond A and B Outfalls

The Pond A and Pond B outfalls (outfalls 001 and 002, respectively) undergo monthly monitoring for Appendix IX VOCs in addition to the constituents monitored and reported on a monthly basis in accordance with the site-specific NPDES Permit. Pond A and Pond B outfall locations are shown on **Figure 1**.

VOC Results

No VOCs were observed in the Pond A or Pond B outfall samples during the second quarter of 2017, which is consistent with historical results.

The laboratory Reports of Analysis and chain-of-custody documentation for the second-quarter 2017 Pond A and Pond B outfall samples are included in **Appendix C**. The pond outfall analytical results for the second quarter of 2017 are summarized in **Table 7**.

5.7 Pond A Surface Water

A surface water sample is collected from Pond A on a quarterly basis and is analyzed for priority pollutant VOCs and the eight RCRA metals. The location of Pond A is shown on **Figure 1**.

Inorganic Results

Barium was detected at a concentration (53 µg/L) above the MDL in the Pond A surface water sample collected during the second-quarter 2017 monitoring event. The concentration of barium observed is well below its MCL (2,000 µg/L), is consistent with

historical observations, and is attributable to naturally occurring conditions. No other inorganic constituents were detected during the second-quarter 2017 monitoring period.

VOC Results
No VOCs were observed in the Pond A surface water sample collected during the second quarter of 2017.

The laboratory Reports of Analysis and chain-of-custody documentation for the second-quarter 2017 Pond A surface water sample are included in **Appendix C**. The Pond A surface water analytical results for the second quarter of 2017 are summarized in **Table 7**.

5.8 Passive Diffusion Bags

In conjunction with the ongoing WT008 area assessment, three PDB monitoring points, designated as PDB004, PDB005, and PDB006, were established in the East Meadow low area at the locations illustrated on **Figure 1**. The PDBs are sampled and replaced at these points on a quarterly basis.

The PDB samples were analyzed for the priority pollutant list of VOCs.

VOC Results
The following constituents were detected at concentrations above their respective MCLs:

- PDB004: TCE (7.1 µg/L); and,
- PDB005: Cis-1,2-DCE (110.0 µg/L) and TCE (5.0 µg/L).

Additionally, one or more VOCs were detected in each of the PDBs at concentrations above their respective MDLs, but below regulatory limits. The PDBs contained the following VOCs at concentrations below their MCLs:

- PDB004: Cis-1,2-DCE (1.8 µg/L) and PCE (2.2 µg/L);
- PDB005: Toluene (110 µg/L) and trans-1,2-DCE (1.7 µg/L);
- PDB006: Cis-1,2-DCE (64 µg/L); toluene (12 µg/L); trans-1,2-DCE (3.1 µg/L); and vinyl chloride (1.8 µg/L).

Historically, these constituents have been detected in groundwater samples collected from this area; most notably in samples obtained from monitoring well WT008.

The laboratory Reports of Analysis and chain-of-custody documentation for the second-quarter 2017 PDB samples are included in **Appendix C**. The PDB sample analytical results for the second quarter of 2017 are summarized in **Table 8**.

5.9 Section III French Drains

During construction of portions of the Section III landfill, French drains were installed in the sideslopes to aid in removal of shallow groundwater so the landfill cells could be built. Pumping from the French drains began in 2002 and ceased in 2005, when pumping for construction purposes at Section III was no longer necessary.

Between 2002 and 2005, groundwater pumped from the drains located in close proximity to the WT008 area (French drains FD002 and FD004, see Figure 1) yielded groundwater impacted with VOCs from the historical, non-landfill SWMUs. The recovered groundwater was shipped off-site for disposal. As a pilot test, an air stripper was used for a short period of time to determine if the pumped groundwater could be treated through volatilization of the chemical contaminants. The results of the pilot test determined that the pumped groundwater could indeed be treated via volatilization of the contaminants.

In the third quarter of 2009, VOC concentrations began to rise in monitoring well WT008. Prior to 2009, VOCs had not been observed at concentrations exceeding regulatory standards in groundwater samples collected from well WT008. Chlorinated VOCs continued to be detected at concentrations above regulatory limits in groundwater samples collected from well WT008 during subsequent sampling events. In response to the confirmed and persistent VOCs observed in WT well WT008, several phases of work were completed in an effort to determine the source of the impacts to the groundwater in the area of well WT008. The results of the investigation indicated that a potential source area for the VOCs observed in groundwater is located in vadose zone soil to the southwest of the former Maintenance Shop and that the VOCs observed in the groundwater do not originate from the Section III landfill unit.

Based on the results of the investigation, S+G recommended installing submersible pumps in French drains FD002 and FD004 and reinstating pumping at these locations to control the vertical and horizontal migration of VOCs in WT008 area groundwater, as well as to capture some of the impacted groundwater for treatment. After several discussions with the Trustee and the SCDHEC, a decision was reached to resume pumping and treating the VOC-affected groundwater.

During the fourth quarter of 2015, submersible pumps were installed in Section III French drains FD002 and FD004 and high-density polyethylene piping was installed connecting the pumps to the aeration basins. Pumping of the French drains then began in November 2015. Samples of the recovered groundwater have been collected from each French drain for laboratory analysis of VOCs on a quarterly basis since operation of the pumps began.

VOC Results

The following constituents were detected at concentrations above their respective MCLs during the second-quarter 2017 monitoring event:

- FD002: PCE (57 µg/L); and
- FD004: PCE (150 µg/L).

While still elevated, the concentrations of PCE detected in the Section III French drain samples have decreased significantly since pumping resumed in November 2015.
The laboratory Reports of Analysis and chain-of-custody documentation for the second-quarter 2017 Section III French drain samples are included in **Appendix C**. The Section III French drain sample analytical results obtained to date are summarized in **Table 9**.

In addition to the analytical data collected from the Section III French drains, pumping volume data have also been collected since shortly after operation of the pumps began in October 2015. Flow volume readings for each pump are collected from flow meters attached to the discharge piping on a daily basis. A summary of the monthly flow volume totals from each French drain, as measured since November 5, 2015, is presented on **Table 10**.

As pumping of Section III French drains 2 and 4 continues, groundwater elevation and analytical data from the wells in the WT008 area will be closely monitored. These data will be used to evaluate the performance of the French drain pumping effort in controlling the migration of the WT008 area groundwater impact.

5.10 Summary

VOCs present in the WT aquifer in the vicinity of WT008 are either captured by the PSSB underdrain to the west or the pumped Section III French drains (FD002 and FD004), or discharge to the surface water in the East Meadow low area to the south-southeast. Groundwater captured by the PSSB underdrain and Section III French drains is pumped to the aeration basins, where it is treated and tested for PCE to ensure concentrations are below its NPDES permitted level. During storm events or periods of sustained wet weather, surface water from the East Meadow low area flows to the PSSB (during dry weather, no surface water flow occurs). Surface water from the PSSB also flows to Pond A, which is sampled and analyzed for VOCs as noted above. To date, VOCs have not been detected in Pond A. Thus, current data indicate that VOCs originating from the historical SMWUs and/or the former Maintenance Shop in the WT008 area are being controlled on-site.

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TABLES

Second-Quarter 2017 Water Table Corrective Measures Implementation Report
Pinewood Site
SCD 070 375 985

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Table 1
Water Level and Field Parameter Data - Second Quarter 2017
Pinewood Site

By: BJW
Date: 5/11/2017

Well	Sample/ Measurement Date	Ground Surface Elevation	Top of Casing Elevation	Depth To Static Water[1]	Groundwater Elevation	pH (Std. Units[2])	Temperature (°C[3])	Conductivity (umhos/cm[4])	Turbidity (NTU[5])
Groundwater Monitoring Wells									
OCS001	5/1/2017	155.95	158.94	31.46	127.48	5.88	22.40	155.60	3.71
OCS002	5/2/2017	149.64	152.45	33.33	119.12	5.99	20.60	233.60	6.62
OCS003A	4/27/2017	144.49	147.47	18.97	128.50	5.23	21.00	60.00	4.35
OCS003B	4/27/2017	144.49	147.82	10.30	137.52	5.06	22.00	60.00	15.90
OCS004	5/1/2017	140.84	143.72	18.59	125.13	5.74	20.30	95.30	13.80
OCS005	5/2/2017	151.69	154.66	38.12	116.54	6.32	21.30	157.00	10.80
OCS006A	4/27/2017	136.48	139.07	17.33	121.74	5.41	21.60	80.00	9.95
OCS006B	4/27/2017	136.48	139.78	10.66	129.12	5.09	22.80	80.00	4.63
OCS008R	4/28/2017	156.16	158.95	47.90	111.05	5.82	24.10	210.00	58.50
OCS011	5/2/2017	126.21	129.34	16.58	112.76	NS[6]	NS	NS	NS
WT008	5/1/2017	153.45	156.71	15.71	141.00	5.51	20.20	137.50	26.20
WT010	4/14/2017	104.71	107.96	21.53	86.43	NS	NS	NS	NS
WT011	4/14/2017	97.89	101.21	21.04	80.17	NS	NS	NS	NS
WT012	4/14/2017	96.93	100.27	21.40	78.87	NS	NS	NS	NS
WT015	4/14/2017	107.26	110.57	20.50	90.07	NS	NS	NS	NS
WT016	4/14/2017	102.53	105.90	13.43	92.47	NS	NS	NS	NS
WT026	5/1/2017	137.93	140.07	10.17	129.90	6.12	19.70	279.00	12.20
WT027	5/2/2017	119.06	122.06	12.99	109.07	6.01	19.40	434.00	15.10
WT030	5/2/2017	102.95	106.05	7.13	98.92	5.22	19.60	808.00	6.23
WT032	5/2/2017	137.69	140.81	21.99	118.82	4.87	20.40	1163.00	2.64
WT033	4/14/2017	174.90	178.13	32.75	145.38	NS	NS	NS	NS
WT034	4/14/2017	156.17	159.27	18.57	140.70	NS	NS	NS	NS
WT035	4/14/2017	151.82	155.09	13.86	141.23	NS	NS	NS	NS
WT036	5/1/2017	157.20	160.03	18.61	141.42	4.45	23.10	149.00	47.50
WT037	5/1/2017	149.24	152.30	11.53	140.77	5.15	21.00	207.00	21.70
WT038	5/1/2017	145.57	148.60	12.65	135.95	5.85	21.50	278.00	38.30
WT039	4/14/2017	140.43	143.37	8.77	134.60	NS	NS	NS	NS
WT040	4/14/2017	144.55	147.67	14.73	132.94	NS	NS	NS	NS
WT041	4/14/2017	134.30	137.22	25.83	111.39	NS	NS	NS	NS
WT042	4/14/2017	132.79	135.68	14.69	120.99	NS	NS	NS	NS
WT043	4/14/2017	128.65	131.68	10.23	121.45	NS	NS	NS	NS
WT044	4/14/2017	126.97	130.00	12.57	117.43	NS	NS	NS	NS
WT045	4/14/2017	119.33	122.37	19.98	102.39	NS	NS	NS	NS
WT046	4/14/2017	118.51	121.79	14.40	107.39	NS	NS	NS	NS
WT047	4/14/2017	122.54	125.87	7.76	118.11	NS	NS	NS	NS
WT048	4/14/2017	125.04	127.75	16.24	111.51	NS	NS	NS	NS
WT049	4/14/2017	130.55	133.70	DRY	DRY	NS	NS	NS	NS
Staff Gauges									
SG-1	4/18/2017	135.82	4.00	0.30	132.12	NS	NS	NS	NS
SG-2	4/18/2017	133.54	4.00	0.30	129.84	NS	NS	NS	NS
SG-3	4/18/2017	92.16	4.00	1.10	89.26	NS	NS	NS	NS
SG-4	4/18/2017	93.25	4.00	1.60	90.85	NS	NS	NS	NS

NOTES:
1. All groundwater monitoring well depth to static water measurements were collected on April 14, 2017.
2. Std. Units = Standard pH Units
3. °C = Degrees Celsius
4. umhos/cm = Micromhos per Centimeter
5. NTU = Nephelometric Turbidity Units
6. NS = Not Sampled

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				01/22/01	04/26/01	07/24/01	10/24/01	01/21/02	04/24/02	07/22/02	11/14/02	01/29/03
Inorganics												
7440-39-3	Barium	µg/L	2000	**158**	**181**	**190**	**194**	**169**	**205**	**173**	**69.7**	**160**
7440-43-9	Cadmium	µg/L	5	<5.00	<0.251	<0.251	<0.251	<5.00	<5.00	<0.313	<0.313	<0.313
7440-47-3	Chromium	µg/L	100	**5.34**	**9.22**	**10.6**	<5.00	<5.00	**33.7**	**12.5**	<5.00	**25.7**
7439-92-1	Lead	µg/L	15*	<3.44	**5.18**	**6.51**	<5.00	<3.44	**24.8**	<5.00	<1.72	**13.7**
7439-97-6	Mercury	µg/L	2	**1.96**	**2.49**	**1.72**	**2.12**	**2.16**	**2.07**	**1.82**	**7.11**	**2.65**
7782-49-2	Selenium	µg/L	50	<3.09	<5.00	<3.09	<3.09	<3.09	<3.09	<2.81	<2.81	<2.81
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**227**	**156**	**149**	**150**	**180**	**138**	**151**	**101**	**162**
-	Field pH	SU	NE	**4.7**	**4.8**	**4.5**	**4.3**	**4.5**	**4.4**	**3.7**	**5.3**	**4.6**
-	Field Temperature	° Celsius	NE	**17.8**	**18.2**	**20**	**21.7**	**19.6**	**18.1**	**20.4**	**20.9**	**17.8**
-	Field Turbidity	NTU	NE	**98.2**	**85.1**	**42.2**	**77.5**	**18.11**	**130.4**	**77.2**	**11.4**	**4.4**
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.180	<0.180	<0.180	<0.180	<0.370	<0.340	<0.340	<0.340	<0.340
79-00-5	1,1,2-Trichloroethane	µg/L	5	<0.110	<0.110	<0.110	<0.110	<0.110	<0.440	<0.440	<0.440	<0.440
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.070	<0.070	<0.070	<0.070	<0.210	<0.410	<0.410	<0.410	<0.410
75-35-4	1,1-Dichloroethene	µg/L	7	NA	NA	NA	NA	NA	NA	NA	NA	NA
106-46-7	1,4-Dichlorobenzene	µg/L	75	<0.140	<0.140	<0.140	**0.756 J**	<0.150	**0.281 J**	<0.250	<0.250	<0.250
74-87-3	Chloromethane	µg/L	NE	<0.210	<0.210	<0.210	<0.210	<0.330	<0.500	<0.500	<0.500	<0.500
156-59-2	cis-1,2-Dichloroethene	µg/L	70	NA	NA	NA	NA	NA	NA	NA	NA	NA
75-09-2	Methylene Chloride	µg/L	5	**1.44 J**	<0.630	<0.630	**2.51 J**	**1.83 J**	**3.11 J**	<1.90	<1.90	<1.90
127-18-4	Tetrachloroethene	µg/L	5	<0.210	<0.210	<0.210	<0.210	<0.250	<0.330	<0.330	<0.330	<0.330
108-88-3	Toluene	µg/L	1000	<0.220	<0.220	<0.220	<0.220	<0.170	<0.390	<0.390	<0.390	<0.390
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.310	<0.310	<0.310	<0.310	<0.310	<0.370	<0.370	<0.370	<0.370
79-01-6	Trichloroethene	µg/L	5	<0.160	<0.160	<0.160	<0.160	<0.310	<0.360	<0.360	<0.360	<0.360

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. < = Parameter not detected at the indicated Method Detection Limit
3. * = Action Level
4. NE = Standard not established
5. J = estimated concentration less than the reporting limit but greater than the detection limit
6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				04/22/03	08/19/03	11/03/03	01/21/04	04/21/04	07/21/04	10/18/04	01/28/05	05/02/05
Inorganics												
7440-39-3	Barium	µg/L	2000	**133**	**94.9**	**147**	**177**	**147**	**131**	**127**	**77.5**	**79.2**
7440-43-9	Cadmium	µg/L	5	<0.478	<5.00	<0.313	<0.313	<0.313	<0.313	<0.313	<5.00	<1.00
7440-47-3	Chromium	µg/L	100	**7.5**	<5.00	**17.9**	**7.46**	<5.00	**22.9**	<5.00	<5.00	**18.2**
7439-92-1	Lead	µg/L	15*	<5.00	<1.72	**8.36**	**7.41**	<1.72	**6.32**	<5.00	<5.00	**28.9**
7439-97-6	Mercury	µg/L	2	**2.05**	**2.1**	**2.19**	**1.59**	**1.13**	**2.73**	**1.2**	**1.05**	**1.01**
7782-49-2	Selenium	µg/L	50	**5.15**	**5.89**	<2.81	<5.00	<5.00	<2.81	<2.81	<2.81	<6.00
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**146**	**113**	**160**	**160**	**174**	**152**	**141**	**196**	**209**
-	Field pH	SU	NE	**4.3**	**4.5**	**4.5**	**4.2**	**4.1**	**4.5**	**4.7**	**4.9**	**4.9**
-	Field Temperature	° Celsius	NE	**17.8**	**21.9**	**21.1**	**17.5**	**17.2**	**20.1**	**22.3**	**16.6**	**18.5**
-	Field Turbidity	NTU	NE	**36**	**19**	**12**	**142**	**74**	**138**	**51.9**	**57.8**	**140**
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.340	<0.340	<0.340	<0.340	<0.340	<0.340	<0.340	<0.340	<0.300
79-00-5	1,1,2-Trichloroethane	µg/L	5	<0.440	<0.440	<0.440	<0.440	<0.440	<0.440	<0.440	<0.440	<0.250
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.410	<0.300
75-35-4	1,1-Dichloroethene	µg/L	7	NA	NA	NA	<0.410	<0.410	<0.410	<0.410	<0.410	<0.300
106-46-7	1,4-Dichlorobenzene	µg/L	75	<0.250	<0.250	<0.250	NA	NA	NA	NA	NA	NA
74-87-3	Chloromethane	µg/L	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
156-59-2	cis-1,2-Dichloroethene	µg/L	70	NA	NA	NA	NA	NA	NA	NA	NA	NA
75-09-2	Methylene Chloride	µg/L	5	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<1.90	<2.00
127-18-4	Tetrachloroethene	µg/L	5	<0.330	<0.330	<0.330	<0.330	<0.330	<0.330	<0.330	<0.330	<0.250
108-88-3	Toluene	µg/L	1000	<0.390	<0.390	<0.390	<0.390	<0.390	**0.743 J**	<0.390	<0.390	**0.305 J**
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.370	<0.370	<0.370	<0.370	<0.370	<0.370	<0.370	<0.370	<0.300
79-01-6	Trichloroethene	µg/L	5	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.360	<0.250

NOTES:
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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				08/01/05	10/28/05	01/12/06	05/12/06	08/10/06	11/16/06	02/09/07	05/03/07	08/15/07
Inorganics												
7440-39-3	Barium	µg/L	2000	**107**	**94.1**	**115**	**36.3**	**49**	**115**	**95.6**	**80.1**	**78.2**
7440-43-9	Cadmium	µg/L	5	<1.00	<1.00	<1.00	<1.00	<1.00	**0.118**	**0.122**	**0.108**	<0.100
7440-47-3	Chromium	µg/L	100	**10.6**	**16.6**	**11**	<5.00	<5.00	**11.7**	<5.00	**7.32**	**10.5**
7439-92-1	Lead	µg/L	15*	<10.00	**16**	**12.5**	<10.00	<10.00	**11.6**	<10.00	<10.00	**10.6**
7439-97-6	Mercury	µg/L	2	**0.953**	**1.76**	**1.36**	**0.478**	**0.553**	**1.76**	**0.842**	**0.325**	**0.258**
7782-49-2	Selenium	µg/L	50	<6.00	<6.00	<6.00	<6.00	<6.00	<6.00	<15.0	<6.00	<5.00
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**155**	**129**	**147**	**73**	**106**	**112**	**112**	**108**	**100**
-	Field pH	SU	NE	**4.5**	**5**	**4.8**	**4.8**	**4.5**	**4.6**	**4.9**	**4.7**	**4.7**
-	Field Temperature	° Celsius	NE	**20.7**	**21.5**	**20.2**	**17.3**	**22.9**	**21.4**	**18.7**	NA	**22.5**
-	Field Turbidity	NTU	NE	**24.1**	**65.3**	**63.2**	**40.82**	**73.6**	**59.3**	**40.9**	**119**	**134**
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
79-00-5	1,1,2-Trichloroethane	µg/L	5	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
75-35-4	1,1-Dichloroethene	µg/L	7	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	NA	<0.300	<0.300
106-46-7	1,4-Dichlorobenzene	µg/L	75	NA	NA	NA	NA	NA	NA	<0.250	<0.250	<0.250
74-87-3	Chloromethane	µg/L	NE	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500	<0.500
156-59-2	cis-1,2-Dichloroethene	µg/L	70	NA	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
75-09-2	Methylene Chloride	µg/L	5	<2.00	<2.00	<2.00	<2.00	<2.00	**4.74 J**	<2.00	<2.00	<2.00
127-18-4	Tetrachloroethene	µg/L	5	**0.492 J**	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
108-88-3	Toluene	µg/L	1000	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
79-01-6	Trichloroethene	µg/L	5	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. < = Parameter not detected at the indicated Method Detection Limit
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4. NE = Standard not established
5. J = estimated concentration less than the reporting limit but greater than the detection limit
6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				11/28/07	02/27/08	05/02/08	08/08/08	11/11/08	02/10/09	05/08/09	08/03/09	09/22/09
Inorganics												
7440-39-3	Barium	µg/L	2000	**110**	**86.3**	**62.1**	**84.2**	**64.5**	**59.6**	**55.5**	**55.2**	NA
7440-43-9	Cadmium	µg/L	5	**0.167**	**0.12**	**0.209**	**0.183**	**0.167**	<0.1	<0.1	<0.1	NA
7440-47-3	Chromium	µg/L	100	**12.8**	<5.00	<5.00	<5.00	<2.0	**8.62**	<2.0	<5.00	NA
7439-92-1	Lead	µg/L	15*	<10.0	<2.50	<2.50	<10.0	<2.50	<10.0	<2.50	<3.30	NA
7439-97-6	Mercury	µg/L	2	**0.678**	**0.8**	<0.200	**0.223**	**0.251**	<0.2	<0.067	<0.2	NA
7782-49-2	Selenium	µg/L	50	<15.0	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	<5.00	NA
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**148.1**	**129**	**108**	**155**	**150.4**	**108**	**124.3**	**115**	**120.2**
-	Field pH	SU	NE	**4.5**	**4.6**	**4.4**	**4.3**	**4.6**	**4.6**	**5.1**	**4.6**	**4.7**
-	Field Temperature	° Celsius	NE	**19.6**	**16.3**	**18.2**	**21.7**	**20.9**	**18.4**	**19**	**21.1**	**22.2**
-	Field Turbidity	NTU	NE	**68.86**	**24.5**	**12.7**	**25.15**	**23.53**	**13.61**	**14.76**	**11.9**	NA
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.300	<0.300	<0.300	<0.300	<0.325	<0.325	<0.325	<0.325	**0.671 J**
79-00-5	1,1,2-Trichloroethane	µg/L	5	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
75-35-4	1,1-Dichloroethene	µg/L	7	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	**0.844 J**	**3.15**
106-46-7	1,4-Dichlorobenzene	µg/L	75	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
74-87-3	Chloromethane	µg/L	NE	<0.500	<0.500	<0.500	<0.500	<0.300	<0.300	<0.300	<0.300	<0.300
156-59-2	cis-1,2-Dichloroethene	µg/L	70	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	**1.76**
75-09-2	Methylene Chloride	µg/L	5	<2.00	<2.00	<2.00	<2.00	**7.24**	<2.00	<2.00	<2.00	<2.00
127-18-4	Tetrachloroethene	µg/L	5	<0.250	<0.250	<0.250	<0.250	<0.450	<0.450	**1.8**	**86.4**	**338**
108-88-3	Toluene	µg/L	1000	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300	<0.300
79-01-6	Trichloroethene	µg/L	5	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	**0.334 J**	**1.14**

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6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				11/05/09	02/12/10	05/24/10	08/09/10	11/12/10	02/18/11	05/16/11	08/10/11	03/13/12
Inorganics												
7440-39-3	Barium	µg/L	2000	**64**	**48.1**	**46.6**	**50.6**	**57.4**	**65.3**	**47.8**	**64.3**	<7.5
7440-43-9	Cadmium	µg/L	5	<0.1	<0.1	<0.1	<0.1	<0.031	<0.1	<0.1	<0.030	<0.6
7440-47-3	Chromium	µg/L	100	<1.00	<1.00	<5.00	<5.00	<5.00	<5	<1.00	<5	<2.1
7439-92-1	Lead	µg/L	15*	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<3.30	<1.9
7439-97-6	Mercury	µg/L	2	<0.2	<0.066	<0.2	<0.2	<0.2	<0.2	<0.066	<0.2	**0.55**
7782-49-2	Selenium	µg/L	50	<5.00	<5.00	<5.00	<5.00	<5.00	<30	<6.00	<6.00	NA
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**152**	**112.7**	**135.4**	**124.7**	**113**	**144**	**92.5**	**115**	**134**
-	Field pH	SU	NE	**4.8**	**5.1**	**5.4**	**5.3**	**4**	**4.8**	**5.1**	**4.5**	**4.68**
-	Field Temperature	° Celsius	NE	**21.1**	**16**	**18.9**	**21.8**	**21.5**	**17.3**	**17.5**	**21.3**	**17.6**
-	Field Turbidity	NTU	NE	**7.82**	**12.47**	NA	**17.19**	NA	**14.93**	**9.13**	**14.2**	NA
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	**2.95**	**2.05**	**2.57**	**2.75**	**1.7**	<8.13	**109**	**1.63**	<0.74
79-00-5	1,1,2-Trichloroethane	µg/L	5	**0.440 J**	<0.250	<0.250	**0.390 J**	<0.250	**<6.25**	<0.250	<0.250	**<10**
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.300	<0.300	<0.300	0.410 J	<0.300	<7.50	<0.300	<0.300	<1.3
75-35-4	1,1-Dichloroethene	µg/L	7	**15**	**10.5**	**11**	**13.5**	**10.1**	**20.8 J**	**6.58**	**9.98**	<1.6
106-46-7	1,4-Dichlorobenzene	µg/L	75	<0.250	<0.250	<0.250	<0.250	<0.250	<6.25	<0.250	<0.250	NA
74-87-3	Chloromethane	µg/L	NE	<0.300	<0.300	<0.300	**0.370 J**	<0.300	<7.50	<0.300	<0.300	<3.5
156-59-2	cis-1,2-Dichloroethene	µg/L	70	**7.59**	**6.8**	**7.94**	**20.7**	**14**	**31.3**	**8.66**	**13.2**	**14**
75-09-2	Methylene Chloride	µg/L	5	<2.00	<2.00	<2.00	<2.00	<2.00	**<50.0**	<2.00	<2.00	<3.3
127-18-4	Tetrachloroethene	µg/L	5	**1060**	**689**	**919**	**1210**	**821**	**1950**	**574**	**643**	**1000**
108-88-3	Toluene	µg/L	1000	<0.250	<0.250	<0.250	<0.250	<0.250	<6.25	<0.250	<0.250	<3.3
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.300	<0.300	<0.300	**0.410 J**	<0.300	<7.50	<0.300	<0.300	<2.1
79-01-6	Trichloroethene	µg/L	5	**4.87**	**3.59**	**3.68**	**5.68**	**3.85**	<6.25	**2.31**	**3.55**	<1.8

NOTES:
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3. * = Action Level
4. NE = Standard not established
5. J = estimated concentration less than the reporting limit but greater than the detection limit
6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				05/18/12	08/13/12	11/08/12	02/19/13	05/10/13	08/09/13	11/07/13	02/07/14	04/25/14
Inorganics												
7440-39-3	Barium	µg/L	2000	<7.5	<7.5	<7.5	<100	<100	**56**	**59**	**53**	**51**
7440-43-9	Cadmium	µg/L	5	<0.6	<0.6	<0.6	<5	<5	<2	<2	<0.6	<0.6
7440-47-3	Chromium	µg/L	100	**22**	<2.1	<2.1	<20	<20	<5	<5	<2.1	<2.1
7439-92-1	Lead	µg/L	15*	<1.9	<1.9	<1.9	<15	<15	<10	<10	<1.9	<1.9
7439-97-6	Mercury	µg/L	2	**0.23**	<0.053	<0.053	**0.27**	<0.2	**0.14**	**0.16**	**0.14**	**0.5**
7782-49-2	Selenium	µg/L	50	NA	NA	NA	NA	NA	<10	<10	<2.6	<2.6
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**112**	**137**	**109.8**	**134**	**135**	**166**	**130**	**136**	**153.6**
-	Field pH	SU	NE	**5.22**	**5.4**	**5.39**	**5.39**	**5.33**	**5.26**	**5.4**	**5.21**	**4.98**
-	Field Temperature	° Celsius	NE	**19.6**	**23.3**	**20.1**	**17.1**	**18.9**	**23.5**	**21.6**	**18.6**	**19.9**
-	Field Turbidity	NTU	NE	**230**	**190**	**16**	**32**	**140**	**7.8**	**6.1**	**8.2**	**9.71**
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.74	<0.074	<0.3	<25	<10	<20	<1	<0.74	<0.74
79-00-5	1,1,2-Trichloroethane	µg/L	5	<2.1	<0.21	<0.84	<25	<10	<20	<1	<2.1	<2.1
75-34-3	1,1-Dichloroethane	µg/L	NE	<1.3	<0.13	<0.51	<25	<10	<20	<1	<1.3	<1.3
75-35-4	1,1-Dichloroethene	µg/L	7	<1.6	<0.16	<0.63	<25	<10	<20	**11**	<1.6	<1.6
106-46-7	1,4-Dichlorobenzene	µg/L	75	NA	NA	NA	NA	<10	<20	<1	<3.3	<3.3
74-87-3	Chloromethane	µg/L	NE	<3.5	<0.35	<1.4	<50	<10	<20	<1	<3.5	<3.5
156-59-2	cis-1,2-Dichloroethene	µg/L	70	<1.2	<0.12	<0.48	<25	**14**	**25**	**41**	**36**	**36**
75-09-2	Methylene Chloride	µg/L	5	<3.3	<0.33	<1.3	<25	<10	<20	<1	<3.3	<3.3
127-18-4	Tetrachloroethene	µg/L	5	**520**	**63**	**260**	**260**	**660**	**740**	**990**	**680**	**610**
108-88-3	Toluene	µg/L	1000	<3.3	<0.33	<1.3	<25	<10	<20	<1	<3.3	<3.3
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<2.1	<0.21	<0.82	<25	<10	<20	<1	<2.1	<2.1
79-01-6	Trichloroethene	µg/L	5	<1.8	<0.18	<0.72	<25	<10	<20	**7**	<1.8	<1.8

NOTES:
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4. NE = Standard not established
5. J = estimated concentration less than the reporting limit but greater than the detection limit
6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date								
				07/30/14	10/28/14	01/27/15	05/01/15	08/12/15	11/02/15	02/02/16	05/09/16	08/19/16
Inorganics												
7440-39-3	Barium	µg/L	2000	**42**	**73**	**52**	**49**	**75**	**54**	**47**	**31**	**74**
7440-43-9	Cadmium	µg/L	5	<0.6	<0.6	<0.6	<0.6	<0.54	<0.54	<0.54	<0.54	<0.54
7440-47-3	Chromium	µg/L	100	<2.1	**6.8**	<2.1	<2.1	<0.72	**12**	<0.72	<0.72	<0.72
7439-92-1	Lead	µg/L	15*	<1.9	<1.9	<2.1	<2.1	<4.7	<4.7	<4.7	<4.7	<4.7
7439-97-6	Mercury	µg/L	2	<0.015	**0.93**	**0.91**	0.5	**0.71**	**0.52**	**0.58**	<0.028	<0.028
7782-49-2	Selenium	µg/L	50	<2.6	<2.6	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5	<8.5
Inorganic Non-metals												
-	Field Conductivity	umhos/cm	NE	**115.1**	**238**	**1280**	**131**	**111**	**202**	**171**	**102.1**	**140**
-	Field pH	SU	NE	**4.6**	**5**	**5.26**	**5.4**	**5.03**	**5.58**	**5.01**	**5.67**	**4.77**
-	Field Temperature	° Celsius	NE	**25.4**	**23.8**	**16.2**	**17.5**	**22.9**	**23**	**21.5**	**21**	**22.8**
-	Field Turbidity	NTU	NE	**3.2**	**7.11**	**2.7**	**9.8**	**16**	**200**	**20**	**41.3**	**29**
Volatile Organic Compounds												
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.74	<0.74	<0.74	<0.74	<2.4	<1.2	<1.2	<0.24	<2
79-00-5	1,1,2-Trichloroethane	µg/L	5	<2.1	<2.1	<2.1	<2.1	<2.2	<1.1	<1.1	<0.22	<2
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.13	<0.13	<1.3	<1.3	<1.9	<0.95	<0.95	<0.19	<2
75-35-4	1,1-Dichloroethene	µg/L	7	<0.16	**11**	<1.6	**7.3**	**11**	**5.9**	**5.2**	<0.31	**7.1**
106-46-7	1,4-Dichlorobenzene	µg/L	75	<0.33	<0.33	<3.3	<3.3	<1.9	<0.95	<0.95	<0.19	<2
74-87-3	Chloromethane	µg/L	NE	<0.35	<0.35	<3.5	<3.5	<1.9	<0.95	<0.95	<0.19	<2
156-59-2	cis-1,2-Dichloroethene	µg/L	70	**2.5**	**61**	**49**	**33**	**49**	**33**	**32**	<0.2	**38**
75-09-2	Methylene Chloride	µg/L	5	<0.33	<0.33	<3.3	<3.3	<4.2	<2.1	<2.1	<0.42	<2
127-18-4	Tetrachloroethene	µg/L	5	**78**	**980**	**870**	**530**	**800**	**470**	**550**	**23**	**660**
108-88-3	Toluene	µg/L	1000	<0.33	<0.33	<3.3	<3.3	<2.4	<1.2	<1.2	<0.24	<2
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.21	<0.21	<2.1	<2.1	<3.3	<1.7	<1.7	<0.33	<2
79-01-6	Trichloroethene	µg/L	5	<0.18	<0.18	<1.8	<1.8	<1.6	<0.8	<0.8	<0.16	**5**

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6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 2
WT008 Historical Detected Constituents
Pinewood Site

By: BJW
Date : 5/31/2017

CAS#	Constituent	Units	MCL	Sample Date		
				10/26/16	02/03/17	05/01/17
Inorganics						
7440-39-3	Barium	µg/L	2000	**36**	**42**	**31**
7440-43-9	Cadmium	µg/L	5	<0.54	<0.54	<0.6
7440-47-3	Chromium	µg/L	100	**12**	<0.72	<1.3
7439-92-1	Lead	µg/L	15*	<4.7	<4.7	<4.7
7439-97-6	Mercury	µg/L	2	**0.14**	**0.49**	**0.11**
7782-49-2	Selenium	µg/L	50	<8.5	<8.5	<8.5
Inorganic Non-metals						
-	Field Conductivity	umhos/cm	NE	**110**	**100**	**138**
-	Field pH	SU	NE	**5.15**	**4.90**	**5.51**
-	Field Temperature	° Celsius	NE	**24**	**17.8**	**20.2**
-	Field Turbidity	NTU	NE	**22**	**41.7**	**26**
Volatile Organic Compounds						
71-55-6	1,1,1-Trichloroethane	µg/L	200	<0.4	<2	<0.4
79-00-5	1,1,2-Trichloroethane	µg/L	5	<0.4	<2	<0.4
75-34-3	1,1-Dichloroethane	µg/L	NE	<0.4	<2	<0.4
75-35-4	1,1-Dichloroethene	µg/L	7	**1.3**	<2	**2**
106-46-7	1,4-Dichlorobenzene	µg/L	75	<0.4	<2	<0.4
74-87-3	Chloromethane	µg/L	NE	<0.4	<2	<0.4
156-59-2	cis-1,2-Dichloroethene	µg/L	70	**6.3**	**21**	**8.3**
75-09-2	Methylene Chloride	µg/L	5	<0.4	<2	<0.4
127-18-4	Tetrachloroethene	µg/L	5	**110**	**400**	**150**
108-88-3	Toluene	µg/L	1000	<0.4	<2	<0.4
156-60-5	trans-1,2-Dichloroethene	µg/L	100	<0.4	<2	<0.4
79-01-6	Trichloroethene	µg/L	5	<0.4	<2	<0.4

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. < = Parameter not detected at the indicated Method Detection Limit
3. * = Action Level
4. NE = Standard not established
5. J = estimated concentration less than the reporting limit but greater than the
6. Bold and shaded = concentration exceeds MCL
7. NA = Not analyzed

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Table 3
Water Table Wells Detected Constituents - Second Quarter 2017
Pinewood Site

By: BJW
Date: 5/31/2017

Cas#	Parameter	Method	Units	MCL	Sample Location							
					WT008	WT026	WT027	WT030	WT032	WT036	WT037	WT038
					5/1/2017	5/1/2017	5/2/2017	5/2/2017	5/2/2017	5/1/2017	5/1/2017	5/1/2017
Inorganics												
7440-39-3	Barium	3005A/6010C	µg/l	2000	**31**	**69**	**48**	**28**	**29**	NA	NA	NA
7439-97-6	Mercury	7470A/7470A	µg/l	2	**0.11**	<0.028	<0.028	<0.028	<0.028	NA	NA	NA
Volatile Organic Compounds												
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	**2**	<0.4	<0.4	<0.4	<0.4	<0.4	<0.5	<0.4
156-59-2	cis 1,2-Dichloroethene	8260B	µg/l	70	**8.3**	<0.4	<0.4	<0.4	<0.4	<0.4	**1.7**	<0.4
127-18-4	Tetrachloroethene	8260B	µg/l	5	**150**	<0.4	<0.4	<0.4	<0.4	**6.1**	**56**	**6.5**
79-01-6	Trichloroethene	8260B	µg/l	5	<2	<0.4	<0.4	<0.4	<0.4	<0.4	**1.6**	<0.4

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. < = Parameter not detected at the indicated Method Detection Limit
3. **Bold** and Shaded = Concentration exceeds the MCL
4. NA = Not Analyzed
5. * = Action Level
6. NE = Not Established

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Table 4

Opaline Claystone Wells Detected Constituents - Second Quarter 2017

Pinewood Site

By: BJW
Date: 5/31/2017

Cas#	Parameter	Method	Units	MCL	Sample Location	
					OCS002	OCS008R
					5/2/2017	4/28/2017
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**1.7**	**5.1**
127-18-4	Tetrachloroethene	8260B	µg/l	5	**54**	<0.4
79-01-6	Trichloroethene	8260B	µg/l	5	**8.7**	<0.4

NOTES:

1. MCL = Maximum Contaminant Level per R.61-68
2. **Bold** and Shaded = Concentration exceeds the MCL
3. < = Parameter not detected at the indicated Method Detection Limit

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Table 5
Primary Stormwater Sediment Basin
Sand Blanket Drain #1 Detected Constituents
Pinewood Site

By: BJW
Date: 5/31/2017

CAS#	Constituent	Method	Units	MCL	Sample Date														
					12/01/05	02/01/06	03/01/06	04/25/06	08/10/06	12/11/06	02/13/07	05/04/07	08/16/07	11/28/07	02/27/08	05/06/08	08/09/08	11/13/08	02/10/09	05/08/09
67-66-3	Chloroform	8260B	µg/l	80	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.259 J**	ND
74-87-3	Chloromethane	8260B	µg/l	NE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124-48-1	Dibromochloromethane	8260B	µg/l	80	ND	ND	ND	**69.10**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
106-46-7	1,4-Dichlorobenzene	8260B	µg/l	75	ND	ND	ND	**0.272 J***	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
75-34-3	1,1-Dichloroethane	8260B	µg/l	NE	**0.401 J**	**1.18**	**0.988 J**	**0.988 J**	**0.817 J**	**0.328 J**	ND	**0.820 J**	**1.45**	**0.914 J**	**1.04**	**0.947 J**	**1.4**	**1.28**	**1.97**	**2.54**
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	ND	ND	**1.87**	**1.85**	**0.563 J**	ND	ND	**0.459 J**	**1.94**	**1.04**	**1.83**	**0.876 J**	**1.85**	**1.56**	ND	**2.08**
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**20.9**	**47.4**	**45.8**	**63.8**	**29.5**	**13.1**	**5.06**	**24.7**	**57.4**	**38.8**	**37**	**34.7**	**46.6**	**34.7**	**29.6**	**33.7**
156-60-5	trans-1,2-Dichloroethene	8260B	µg/l	100	**0.405 J**	**0.597 J**	**0.52 J**	**0.778 J**	**0.625 J**	ND	ND	**0.340 J**	**0.763 J**	**0.393 J**	**0.66 J**	ND	**0.572 J**	**0.332 J**	**0.326 J**	**0.607 J**
79-34-5	1,1,2,2-Tetrachloroethane	8260B	µg/l	NE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**2.42**	**2.59**
127-18-4	Tetrachloroethene	8260B	µg/l	5	**18**	**88.6**	**110**	**106**	**51.3**	**31.8**	**14.4**	**46.4**	**135**	**82.8**	**140**	**98.6**	**159**	**106**	**115**	**52.7**
79-00-5	1,1,2-Trichloroethane	8260B	µg/l	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.22	6.45
79-01-6	Trichloroethene	8260B	µg/l	5	**5.34**	**20.5**	**20.3**	**26.5**	**9.07**	**5.61**	**2.24**	**8.15**	**25.6**	**17.7**	**18.7**	**16.7**	**24.1**	**19.6**	**14.8**	**18.7**

CAS#	Constituent	Method	Units	MCL	Sample Date														
					08/03/09	11/05/09	02/12/10	02/18/11	05/16/11	08/10/11	11/18/11	03/13/12	05/18/12	08/13/12	11/12/12	02/19/13	05/13/13	08/09/13	11/07/13	02/10/14
67-66-3	Chloroform	8260B	µg/l	80	ND	ND	<0.250	<0.250	<0.250	<0.250	<0.250	<0.33	<0.33	<0.33	<0.33	<5	<1	<1	<1	<0.33
74-87-3	Chloromethane	8260B	µg/l	NE	-	-	**0.310 J**	<0.300	<0.300	<0.300	<0.300	<0.35	<0.35	<0.35	<0.35	<10	<1	<1	<1	<0.35
124-48-1	Dibromochloromethane	8260B	µg/l	80	ND	ND	<0.300	<0.300	<0.300	<0.300	<0.300	<0.33	<0.33	<0.33	<0.33	<10	<1	<1	<1	<0.2
106-46-7	1,4-Dichlorobenzene	8260B	µg/l	75	ND	ND	<0.250	<0.250	<0.250	<0.250	<0.250	-	-	-	-	-	<1	<1	<1	<0.33
75-34-3	1,1-Dichloroethane	8260B	µg/l	NE	**1.56**	**1.12**	**1.38**	**1.09**	**1.04**	**1.22**	**0.860 J**	<0.13	<0.13	<0.13	<0.13	<5	**1.6**	**1.8**	**1.8**	**1.7**
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	**1.28**	**0.850 J**	**1.53**	**1.11**	**1.15**	**1.4**	**1.08**	<0.16	<0.16	<0.16	<0.16	<5	<1	<1	<1	**1.4**
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**29.6**	**24.3**	**17**	**23.4**	**22.7**	**33.4**	**24.1**	**12**	**16**	**12**	**19**	**8.2**	**9.3**	**12**	**14**	**24**
156-60-5	trans-1,2-Dichloroethene	8260B	µg/l	100	**0.431 J**	ND	<0.300	**0.310 J**	**0.380 J**	**0.550 J**	**0.350 J**	<0.21	<0.21	<0.21	<0.21	<5	<1	<1	<1	<0.21
79-34-5	1,1,2,2-Tetrachloroethane	8260B	µg/l	NE	**1.25**	ND	**1.06**	<0.250	<0.250	<0.250	<0.250	<0.16	<0.16	<0.16	<0.16	<5	**1.1**	<1	<1	<0.16
127-18-4	Tetrachloroethene	8260B	µg/l	5	**104**	**74.2**	**64.7**	**69.6**	**72.2**	**113**	**77.7**	**42**	**34**	**25**	**34**	**22**	**27**	**37**	**42**	**74**
79-00-5	1,1,2-Trichloroethane	8260B	µg/l	5	2.93	0.290 J	2.96	<0.250	0.880 J	0.370 J	<0.250	<0.21	-	<0.21	<0.21	<5	**2.7**	**2.2**	<1	<0.21
79-01-6	Trichloroethene	8260B	µg/l	5	**18.5**	**13.6**	**11.3**	**13.7**	**15**	**22.2**	**18.1**	**6.1**	**6**	**6.3**	**9.1**	<5	**4.3**	**7**	**9.4**	**14**

CAS#	Constituent	Method	Units	MCL	Sample Date												
					04/23/14	07/30/14	10/29/14	01/28/15	4/29/2015	8/13/2015	11/6/2015	3/10/2016	5/6/2016	8/24/2016	10/25/16	02/02/17	04/28/17
67-66-3	Chloroform	8260B	µg/l	80	<0.33	<0.33	<0.33	<0.33	<0.33	<0.21	<0.21	<0.21	<0.21	<0.40	<0.40	<0.40	<0.40
74-87-3	Chloromethane	8260B	µg/l	NE	<0.35	<0.35	<0.35	<0.35	<0.35	<0.19	<0.19	<0.19	<0.19	<0.40	<0.40	<0.40	<0.40
124-48-1	Dibromochloromethane	8260B	µg/l	80	<0.2	<0.33	<0.33	<0.33	<0.33	<0.23	<0.23	<0.23	<0.23	<0.40	<0.40	<0.40	<0.40
106-46-7	1,4-Dichlorobenzene	8260B	µg/l	75	<0.33	<0.33	<0.33	<0.33	<0.33	<0.19	<0.19	<0.19	<0.19	<0.40	<0.40	<0.40	<0.40
75-34-3	1,1-Dichloroethane	8260B	µg/l	NE	**1.4**	**1.3**	**1.1**	<0.13	**1.3**	<0.19	<0.19	**1.1**	**1.4**	<0.40	<0.40	**1.3**	**1.1**
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	<0.16	<0.16	<0.16	<0.16	**1.6**	<0.31	<0.31	<0.31	<0.31	<0.40	<0.40	**1.0**	<0.40
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**12**	**12**	**12**	**7.2**	**19**	**7.9**	**5.6**	**7.1**	**9.1**	**18**	**14**	**11**	**6.2**
156-60-5	trans-1,2-Dichloroethene	8260B	µg/l	100	<0.21	<0.21	<0.21	<0.21	<0.21	<0.33	<0.33	<0.33	<0.33	<0.40	<0.40	<0.40	<0.40
79-34-5	1,1,2,2-Tetrachloroethane	8260B	µg/l	NE	<0.16	<0.16	<0.16	<0.16	<0.16	<0.13	<0.13	<0.13	<0.13	<0.40	<0.40	<0.40	<0.40
127-18-4	Tetrachloroethene	8260B	µg/l	5	**69**	**40**	**27**	**27**	**81**	**23**	**19**	**20**	**28**	**46**	**51**	**53**	**26**
79-00-5	1,1,2-Trichloroethane	8260B	µg/l	5	**1.1**	<0.21	<0.21	<0.21	<0.21	<0.22	<0.22	<0.22	<0.22	<0.40	<0.40	<0.40	<0.40
79-01-6	Trichloroethene	8260B	µg/l	5	**9.5**	**7**	**6.6**	**5.1**	**14**	**4**	**3.7**	**3.7**	**5.7**	**14**	**11**	**10**	**5.7**

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. **Bold** and Shaded = Concentration exceeds the MCL
3. NE = Not Established
4. ND = Not Detected
5. < = Parameter not detected at the indicated Practical Quantitation Limit
6. J = Constituent detected at an estimated concentration above the detection limit but below the reporting limit
7. * = Constituent detected in field blank

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Table 6
Primary Stormwater Sediment Basin
Sand Blanket Drain #2 Detected Constituents
Pinewood Site

By: BJW
Date: 5/31/2017

CAS#	Constituent	Method	Units	MCL	Sample Date														
					12/01/05	02/01/06	03/01/06	04/25/06	08/10/06	12/11/06	02/13/07	05/04/07	08/16/07	11/28/07	02/27/08	05/06/08	08/09/08	11/13/08	02/10/09
75-34-3	1,1-Dichloroethane	8260B	µg/l	NE	**0.615 J**	**0.645 J**	ND	ND	**0.565 J**	ND	ND	**0.655 J**	**0.464 J**	ND	ND	**0.406 J**	ND	ND	ND
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	**0.799 J**	ND	**1.86**	**1.84**	**1.33**	**0.902 J**	**1.34**	**1.85**	**1.77**	**0.705 J**	**0.519 J**	**1.19**	**0.842 J**	**0.438 J**	**0.804 J**
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**48.5**	**54.4**	**54.8**	**72.8**	**53.3**	**20.7**	**22.4**	**26.4**	**52**	**29**	**16.7**	**41.1**	**29.1**	**10.9**	**26**
156-60-5	trans-1,2-Dichloroethene	8260B	µg/l	100	**0.581 J**	**0.881 J**	**0.649 J**	**0.907 J**	**0.857 J**	ND	**0.374 J**	**0.645 J**	**1.07**	**0.519 J**	**0.338 J**	**0.637 J**	**0.576 J**	ND	**0.384 J**
127-18-4	Tetrachloroethene	8260B	µg/l	5	**57.3**	**86.3**	**108**	**104**	**87.3**	**55.4**	**68.4**	**144**	**95.6**	**39.1**	**25**	**64.9**	**42.8**	**14.6**	**34.7**
79-01-6	Trichloroethene	8260B	µg/l	5	**16.7**	**22.2**	**23.4**	**29.6**	**19.7**	**11.1**	**12.2**	**23**	**25.8**	**11.5**	**6.75**	**20.9**	**13.9**	**5.88**	**11.7**

CAS#	Constituent	Method	Units	MCL	Sample Date														
					05/08/09	08/03/09	11/05/09	02/12/10	02/18/11	05/16/11	08/10/11	11/18/11	03/13/12	05/18/12	08/13/12	11/12/12	02/19/13	05/13/13	08/09/13
75-34-3	1,1-Dichloroethane	8260B	µg/l	NE	ND	**0.325 J**	ND	<0.300	<0.300	<0.300	<0.300	<0.300	<0.13	<0.13	<0.13	<0.13	<5	<1	<1
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	**1.03**	**0.847 J**	**0.560 J**	<0.300	**0.330 J**	**0.820 J**	**0.810 J**	<0.300	<0.16	<0.16	<0.16	<0.16	<5	**1.5**	**1.9**
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**24**	**31.4**	**19.5**	**5.12**	**19.4**	**28.1**	**30.3**	**8.51**	**38**	**51**	**37**	**43**	**26**	**33**	**37**
156-60-5	trans-1,2-Dichloroethene	8260B	µg/l	100	**0.547 J**	**0.709 J**	**0.350 J**	<0.250	**0.480 J**	**0.960 J**	**0.630 J**	<0.300	<0.21	<0.21	<0.21	<0.21	<5	<1	<1
127-18-4	Tetrachloroethene	8260B	µg/l	5	**35.1**	**43.1**	**26**	**7.93**	**14.3**	**25.6**	**42.3**	**10.2**	**120**	**130**	**120**	**120**	**57**	**98**	**100**
79-01-6	Trichloroethene	8260B	µg/l	5	**11.5**	**16.7**	**10.2**	**2.02**	**5.17**	**9.24**	**14.7**	**5.08**	**24**	**30**	**24**	**28**	**14**	**20**	**22**

CAS#	Constituent	Method	Units	MCL	Sample Date														
					11/07/13	02/10/14	04/23/14	07/30/14	10/29/14	01/28/15	04/29/15	08/13/15	11/06/15	03/10/16	05/06/16	08/24/16	10/25/16	02/02/17	04/28/17
75-34-3	1,1-Dichloroethane	8260B	µg/l	NE	<1	<0.13	<0.13	<0.13	<0.13	<0.13	<0.300	<0.19	<0.19	<0.19	<0.19	<0.40	<0.40	<0.40	<0.40
75-35-4	1,1-Dichloroethene	8260B	µg/l	7	<1	<0.16	**1**	**1.6**	**1.1**	<0.16	<0.300	**2.2**	**1.2**	**1.5**	<0.31	<0.40	<0.40	<0.40	**1.2**
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**19**	**27**	**25**	**29**	**29**	**14**	**24**	**31**	**23**	**26**	**22**	**17**	**12**	**21**	**20**
156-60-5	trans-1,2-Dichloroethene	8260B	µg/l	100	<1	<0.21	<0.21	<0.21	<0.21	<0.21	<0.250	<0.33	<0.33	<0.33	<0.33	<0.40	<0.40	<0.40	<0.40
127-18-4	Tetrachloroethene	8260B	µg/l	5	**28**	**27**	**45**	**100**	**52**	**21**	**40**	**86**	**72**	**68**	**56**	**24**	**14**	**33**	**47**
79-01-6	Trichloroethene	8260B	µg/l	5	**9.3**	**10**	**12**	**24**	**17**	**7.4**	**14**	**24**	**15**	**17**	**15**	**10**	**5.8**	**11**	**11**

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. **Bold** and Shaded = Concentration exceeds the MCL
3. NE = Not Established
4. ND = Not Detected
5. < = Parameter not detected at the indicated Method Detection Limit
6. J = Constituent detected at an estimated concentration above the detection limit but below the reporting limit

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Table 7
Monthly French Drain and Pond Outfall Sample
Detected Consitiuents - Second Quarter 2017
Pinewood Site

By: BW
Date: 7/6/2017

Sample Location		Sample Date	Detected Constituents					
			CAS #	Constituent	Method	Units	MCL	Result
Section I French Drain	Pond A Outfall	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	75-34-3	1,1-Dichloroethane	SW846 8260B	µg/l	NE	**0.61**
	Manhole #1	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					
	Manhole #2	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					
	Manhole #3	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					
	Manhole #4	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					
	Manhole #5	4/27/2017	75-34-3	1,1-Dichloroethane	SW846 8260B	µg/l	NE	**2.6**
			123-91-1	1,4-Dioxane	SW846 8260B (SIM)	µg/l	NE	**11**
		5/16/2017	75-34-3	1,1-Dichloroethane	SW846 8260B	µg/l	NE	**1.9**
			123-91-1	1,4-Dioxane	SW846 8260B (SIM)	µg/l	NE	**7.3**
		6/22/2017	75-34-3	1,1-Dichloroethane	SW846 8260B	µg/l	NE	**3.2**
			123-91-1	1,4-Dioxane	SW846 8260B (SIM)	µg/l	NE	**12**
Perimeter French Drains	Pond A Outfall	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	123-91-1	Lead	200.8	µg/l	15	**6.1**
	Pond B Outfall	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					
Pond A	Outfall 001	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					
	Surface Water	5/2/2017	7440-39-3	Barium	6010C	µg/l	2000	**53**
Pond B	Outfall 002	4/27/2017	No Detections					
		5/16/2017	No Detections					
		6/22/2017	No Detections					

NOTES:
1. MCL = Maximum Contaminant Level per R.61-68
2. Bold and Shaded = Concentration exceeds the MCL
3. NE = Not Established

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Table 8

Passive Diffusion Bag Detected Constituents - Second Quarter 2017

Pinewood Site

By: BW

Date: 5/31/2017

Cas#	Parameter	Method	Units	MCL	PDB004	PDB005	PDB006
156-59-2	cis-1,2-Dichloroethene	8260B	µg/l	70	**1.8**	**110**	**64**
127-18-4	Tetrachloroethene	8260B	µg/l	5	**2.2**	<0.40	<0.40
108-88-3	Toluene	8260B	µg/l	1000	<0.40	**110**	**12**
156-60-5	Trans-1,2-Dichloroethene	8260B	µg/l	100	<0.40	**1.7**	**3.1**
79-01-6	Trichloroethene	8260B	µg/l	5	**7.1**	**5**	<0.40
75-01-4	Vinyl Chloride	8260B	µg/l	2	<0.40	<0.40	**1.8**

NOTES:

1. MCL = Maximum Contaminant Level per R.61-68
2. **Bold** and Shaded = Concentration exceeds the MCL
3. < = Parameter not detected at the indicated Method Detection Limit

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Table 9
Section III French Drain Detected Constituents
Pinewood Site
Pinewood, South Carolina

By: BJW
Date: 5/31/2017

CAS #	Constituent	Method	Units	MCL	FD002						
					12/29/15	3/10/16	5/27/16	8/24/16	10/27/16	2/2/17	5/1/17
75-35-4	1,1-Dichloroethene	8260B	µg/L	7	**1.3**	**1.1**	<0.18	<0.40	<0.40	<0.40	<0.40
156-59-2	cis-1,2-Dichloroethene	8260B	µg/L	70	**1.3**	**0.8**	**0.52**	<0.40	<0.40	<0.40	<0.40
127-18-4	Tetrachloroethene	8260B	µg/L	5	**170**	**140**	**130**	**100**	**97**	**98**	**57**
71-55-6	1,1,1-Trichloroethane	8260B	µg/L	200	<0.37	<0.37	<0.37	<0.40	<0.40	<0.40	<0.40
79-01-6	Trichloroethene	8260B	µg/L	5	**0.64**	<0.27	<0.27	<0.40	<0.40	<0.40	<0.40

CAS #	Constituent	Method	Units	MCL	FD004						
					12/29/15	3/10/16	5/27/16	8/24/16	10/27/16	2/2/17	5/1/17
75-35-4	1,1-Dichloroethene	8260B	µg/L	7	**160**	**210**	<18	<40	**77**	**20**	**2.2**
156-59-2	cis-1,2-Dichloroethene	8260B	µg/L	70	**220**	**250**	**93**	<40	**98**	**31**	**3.3**
127-18-4	Tetrachloroethene	8260B	µg/L	5	**13000**	**16000**	**8800**	**7600**	**8100**	**2600**	**150**
71-55-6	1,1,1-Trichloroethane	8260B	µg/L	200	<74	**220**	<37	<40	**73**	**23**	**2.4**
79-01-6	Trichloroethene	8260B	µg/L	5	<54	<54	<27	<40	**28**	<8.0	**0.78**

Notes:
MCL = Maximum Contaminant Level per R.61-68
µg/L = Micrograms per liter
Bold and shaded = Concentration exceeds the MCL
< = Concentration is below the identified laboratory Method Detection Limit

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By: BJW
Date: 7/10/2017

Table 10
Section III French Drain Monthly Flow Volumes
Pinewood Site
Pinewood, South Carolina

Date	Monthly Flow Volume Totals (Gallons)	
	FD #2	FD #4
November 30, 2015	457,993	143,175
December 31, 2015	286,596	84,561
January 31, 2016	343,100	128,447
February 29, 2016	273,828	92,789
March 31, 2016	449,967	104,249
April 30, 2016	331,334	85,392
May 31, 2016	267,934	68,719
June 30, 2016	231,663	70,858
July 31, 2016	227,145	66,385
August 31, 2016	204,316	54,761
September 30, 2016	150,872	61,388
October 31, 2016	141,507	72,743
November 30, 2016	152,689	51,739
December 31, 2016	147,169	50,991
January 31, 2017	138,111	64,096
February 28, 2017	153,721	69,945
March 31, 2017	155,831	58,396
April 30, 2017	152,629	66,998
May 31, 2017	162,832	60,042
June 30, 2017	145,277	55,008
Total Through Second Quarter of 2017	**4,574,514**	**1,510,682**

Notes:
November 2015 monthly total is from November 5, 2015 - November 30, 2015

FIGURES

Second-Quarter 2017 Water Table Corrective Measures Implementation Report
Pinewood Site
SCD 070 375 985

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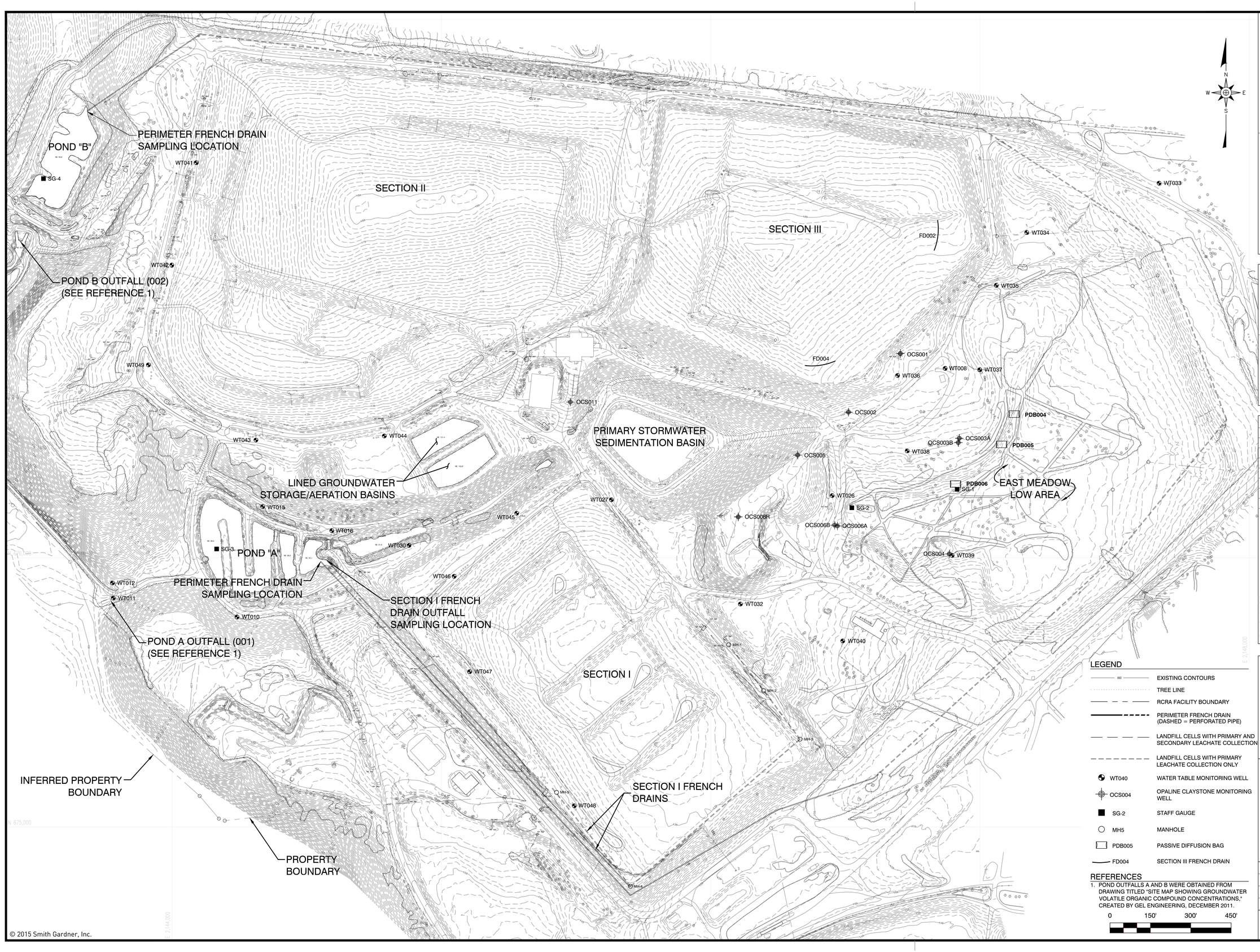


PREPARED FOR:

PINEWOOD SITE
PINEWOOD
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

LEGEND

- EXISTING CONTOURS
- TREE LINE
- RCRA FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- WT040 — WATER TABLE MONITORING WELL
- OCS004 — OPALINE CLAYSTONE MONITORING WELL
- SG-2 — STAFF GAUGE
- MH5 — MANHOLE
- PDB005 — PASSIVE DIFFUSION BAG
- FD004 — SECTION III FRENCH DRAIN

REFERENCES

1. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS," CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 150' 300' 450'

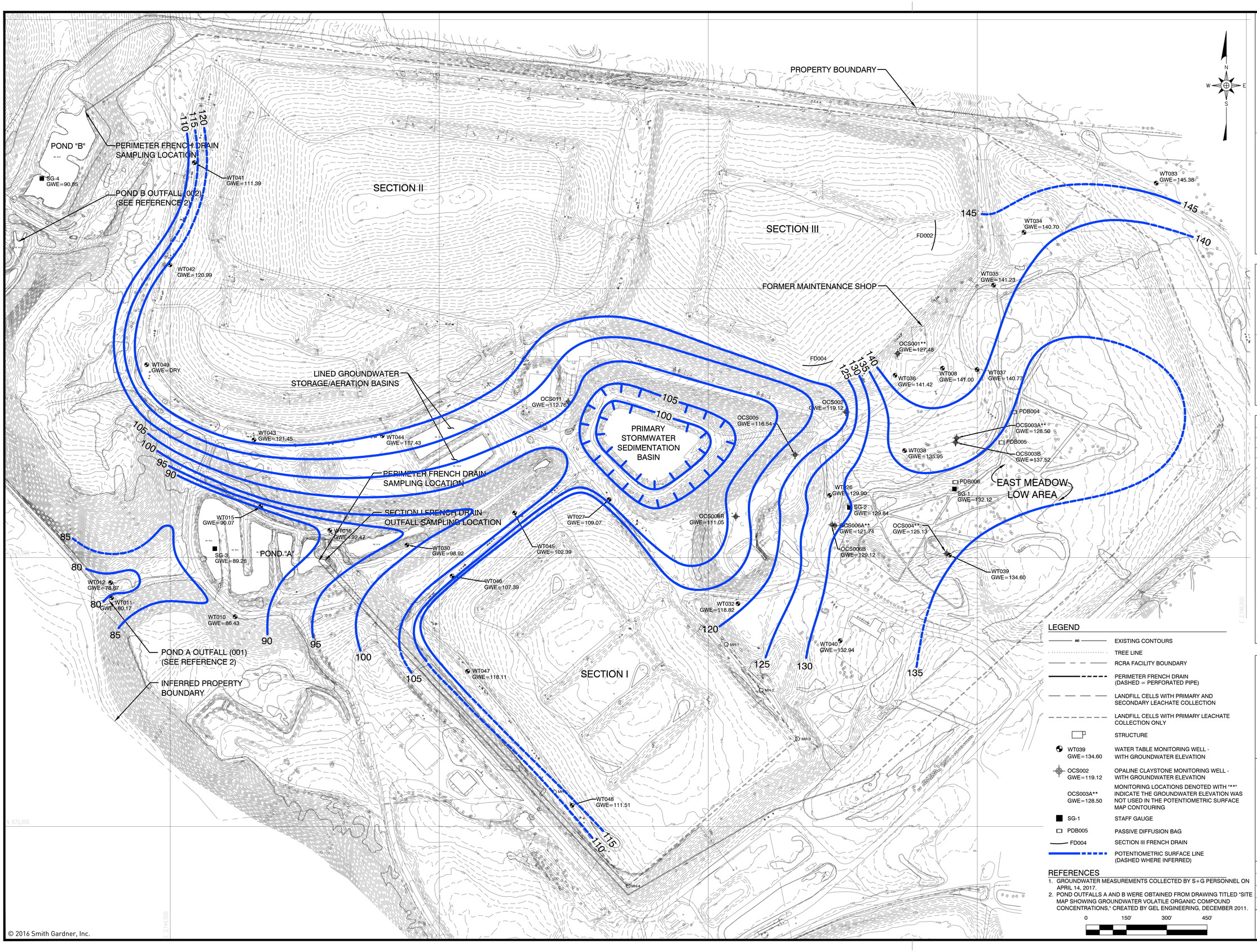
PROJECT TITLE:

SECOND QUARTER 2017 WATER TABLE CORRECTIVE MEASURES IMPLEMENTATION REPORT

DRAWING TITLE:

SITE MAP WITH MONITORING LOCATIONS

DESIGNED: BJW	PROJECT NO: PINEWOOD 12-8
DRAWN: BJW	SCALE: AS SHOWN
APPROVED: CKA	DATE: MAY 2017
FILENAME: PINE-D0223	
SHEET NUMBER:	DRAWING NUMBER: FIG. 1



LEGEND

- EXISTING CONTOURS
- TREE LINE
- RCRA FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- STRUCTURE
- WT039 GWE=134.60 — WATER TABLE MONITORING WELL - WITH GROUNDWATER ELEVATION
- OCS002 GWE=119.12 — OPALINE CLAYSTONE MONITORING WELL - WITH GROUNDWATER ELEVATION
- OCS003A** GWE=128.50 — MONITORING LOCATIONS DENOTED WITH "**" INDICATE THE GROUNDWATER ELEVATION WAS NOT USED IN THE POTENTIOMETRIC SURFACE MAP CONTOURING
- SG-1 — STAFF GAUGE
- PDB005 — PASSIVE DIFFUSION BAG
- FD004 — SECTION III FRENCH DRAIN
- POTENTIOMETRIC SURFACE LINE (DASHED WHERE INFERRED)

REFERENCES

1. GROUNDWATER MEASUREMENTS COLLECTED BY S+G PERSONNEL ON APRIL 14, 2017.
2. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS," CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 150' 300' 450'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

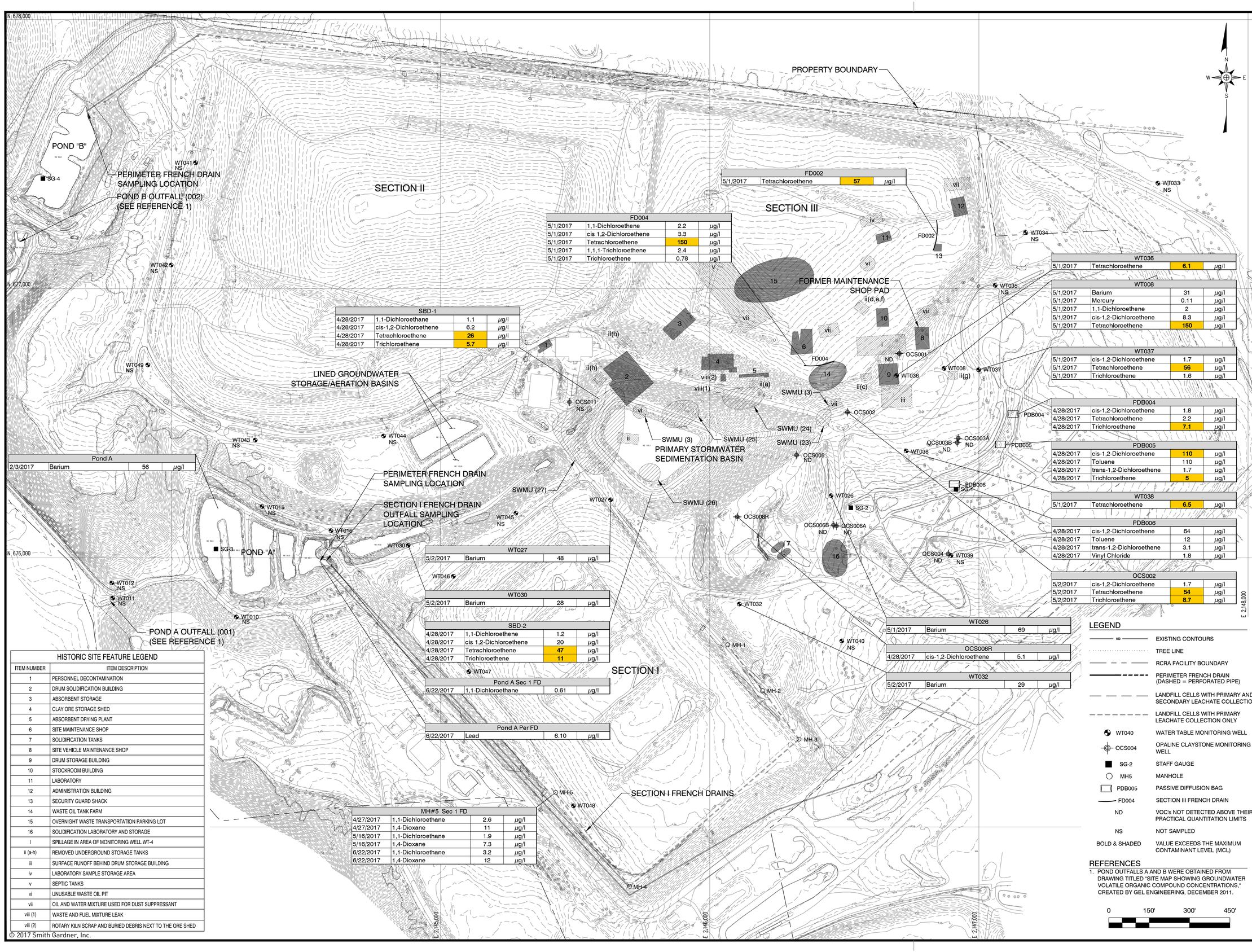
PROJECT TITLE:

SECOND QUARTER 2017 WATER TABLE CORRECTIVE MEASURES IMPLEMENTATION REPORT

DRAWING TITLE:

WATER TABLE POTENTIOMETRIC SURFACE MAP APRIL 2017

DESIGNED:	BJW	PROJECT NO:	PINEWOOD 12-8
DRAWN:	BJW	SCALE:	AS SHOWN
APPROVED:	CKA	DATE:	MAY 2017
FILENAME:	PINE-D0224		
SHEET NUMBER:		DRAWING NUMBER:	**FIG. 2**



Pond A			
2/3/2017	Barium	56	µg/l

SBD-1			
4/28/2017	1,1-Dichloroethane	1.1	µg/l
4/28/2017	cis-1,2-Dichloroethene	6.2	µg/l
4/28/2017	Tetrachloroethene	**26**	µg/l
4/28/2017	Trichloroethene	**5.7**	µg/l

FD004			
5/1/2017	1,1-Dichloroethene	2.2	µg/l
5/1/2017	cis 1,2-Dichloroethene	3.3	µg/l
5/1/2017	Tetrachloroethene	**150**	µg/l
5/1/2017	1,1,1-Trichloroethene	2.4	µg/l
5/1/2017	Trichloroethene	0.78	µg/l

FD002			
5/1/2017	Tetrachloroethene	**57**	µg/l

WT027			
5/2/2017	Barium	48	µg/l

WT030			
5/2/2017	Barium	28	µg/l

SBD-2			
4/28/2017	1,1-Dichloroethene	1.2	µg/l
4/28/2017	cis 1,2-Dichloroethene	20	µg/l
4/28/2017	Tetrachloroethene	**47**	µg/l
4/28/2017	Trichloroethene	**11**	µg/l

Pond A Sec 1 FD			
6/22/2017	1,1-Dichloroethane	0.61	µg/l

Pond A Per FD			
6/22/2017	Lead	6.10	µg/l

MH#5 Sec 1 FD			
4/27/2017	1,1-Dichloroethane	2.6	µg/l
4/27/2017	1,4-Dioxane	11	µg/l
5/16/2017	1,1-Dichloroethane	1.9	µg/l
5/16/2017	1,4-Dioxane	7.3	µg/l
6/22/2017	1,1-Dichloroethane	3.2	µg/l
6/22/2017	1,4-Dioxane	12	µg/l

WT036			
5/1/2017	Tetrachloroethene	**6.1**	µg/l

WT008			
5/1/2017	Barium	31	µg/l
5/1/2017	Mercury	0.11	µg/l
5/1/2017	1,1-Dichloroethene	2	µg/l
5/1/2017	cis-1,2-Dichloroethene	8.3	µg/l
5/1/2017	Tetrachloroethene	**150**	µg/l

WT037			
5/1/2017	cis-1,2-Dichloroethene	1.7	µg/l
5/1/2017	Tetrachloroethene	**56**	µg/l
5/1/2017	Trichloroethene	1.6	µg/l

PDB004			
4/28/2017	cis-1,2-Dichloroethene	1.8	µg/l
4/28/2017	Tetrachloroethene	2.2	µg/l
4/28/2017	Trichloroethene	**7.1**	µg/l

PDB005			
4/28/2017	cis-1,2-Dichloroethene	**110**	µg/l
4/28/2017	Toluene	110	µg/l
4/28/2017	trans-1,2-Dichloroethene	1.7	µg/l
4/28/2017	Trichloroethene	**5**	µg/l

WT038			
5/1/2017	Tetrachloroethene	**6.5**	µg/l

PDB006			
4/28/2017	cis-1,2-Dichloroethene	64	µg/l
4/28/2017	Toluene	12	µg/l
4/28/2017	trans-1,2-Dichloroethene	3.1	µg/l
4/28/2017	Vinyl Chloride	1.8	µg/l

OCS002			
5/2/2017	cis-1,2-Dichloroethene	1.7	µg/l
5/2/2017	Tetrachloroethene	**54**	µg/l
5/2/2017	Trichloroethene	**8.7**	µg/l

WT026			
5/1/2017	Barium	69	µg/l

OCS008R			
4/28/2017	cis-1,2-Dichloroethene	5.1	µg/l

WT032			
5/2/2017	Barium	29	µg/l

HISTORIC SITE FEATURE LEGEND

ITEM NUMBER	ITEM DESCRIPTION
1	PERSONNEL DECONTAMINATION
2	DRUM SOLIDIFICATION BUILDING
3	ABSORBENT STORAGE
4	CLAY ORE STORAGE SHED
5	ABSORBENT DRYING PLANT
6	SITE MAINTENANCE SHOP
7	SOLIDIFICATION TANKS
8	SITE VEHICLE MAINTENANCE SHOP
9	DRUM STORAGE BUILDING
10	STOCKROOM BUILDING
11	LABORATORY
12	ADMINISTRATION BUILDING
13	SECURITY GUARD SHACK
14	WASTE OIL TANK FARM
15	OVERNIGHT WASTE TRANSPORTATION PARKING LOT
16	SOLIDIFICATION LABORATORY AND STORAGE
I	SPILLAGE IN AREA OF MONITORING WELL WT-4
ii (a-h)	REMOVED UNDERGROUND STORAGE TANKS
iii	SURFACE RUNOFF BEHIND DRUM STORAGE BUILDING
iv	LABORATORY SAMPLE STORAGE AREA
v	SEPTIC TANKS
vi	UNUSABLE WASTE OIL PIT
vii	OIL AND WATER MIXTURE USED FOR DUST SUPPRESSANT
viii (1)	WASTE AND FUEL MIXTURE LEAK
viii (2)	ROTARY KILN SCRAP AND BURIED DEBRIS NEXT TO THE ORE SHED

LEGEND

- EXISTING CONTOURS
- TREE LINE
- RCRA FACILITY BOUNDARY
- PERIMETER FRENCH DRAIN (DASHED = PERFORATED PIPE)
- LANDFILL CELLS WITH PRIMARY AND SECONDARY LEACHATE COLLECTION
- LANDFILL CELLS WITH PRIMARY LEACHATE COLLECTION ONLY
- WT040 — WATER TABLE MONITORING WELL
- OCS004 — OPALINE CLAYSTONE MONITORING WELL
- SG-2 — STAFF GAUGE
- MH5 — MANHOLE
- PDB005 — PASSIVE DIFFUSION BAG
- FD004 — SECTION III FRENCH DRAIN
- ND — VOC's NOT DETECTED ABOVE THEIR PRACTICAL QUANTITATION LIMITS
- NS — NOT SAMPLED
- BOLD & SHADED — VALUE EXCEEDS THE MAXIMUM CONTAMINANT LEVEL (MCL)

REFERENCES

1. POND OUTFALLS A AND B WERE OBTAINED FROM DRAWING TITLED "SITE MAP SHOWING GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS," CREATED BY GEL ENGINEERING, DECEMBER 2011.

0 150' 300' 450'

PREPARED FOR:

PINEWOOD SITE
PINEWOOD
SOUTH CAROLINA

PREPARED BY:

SMITH+ GARDNER
ENGINEERS
14 N. Boylan Avenue, Raleigh NC 27603 | 919.828.0577

SEAL

SEAL

REV.	DATE	DESCRIPTION

PROJECT TITLE:

SECOND QUARTER 2017 WATER TABLE CORRECTIVE MEASURES IMPLEMENTATION REPORT

DRAWING TITLE:

WATER TABLE DETECTED CONSTITUENTS MAP WITH HISTORICAL SWMUS

DESIGNED:	PROJECT NO:
BJW	PINEWOOD 12-8
DRAWN:	SCALE:
BJW	AS SHOWN
APPROVED:	DATE:
CKA	JULY 2017
FILENAME:	
PINE-D0226	
SHEET NUMBER:	DRAWING NUMBER:
	FIG. 3

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Figure 4

WT008 Time vs. Concentration Chart - Tetrachloroethene

By: BJW

Date: 6/1/2017

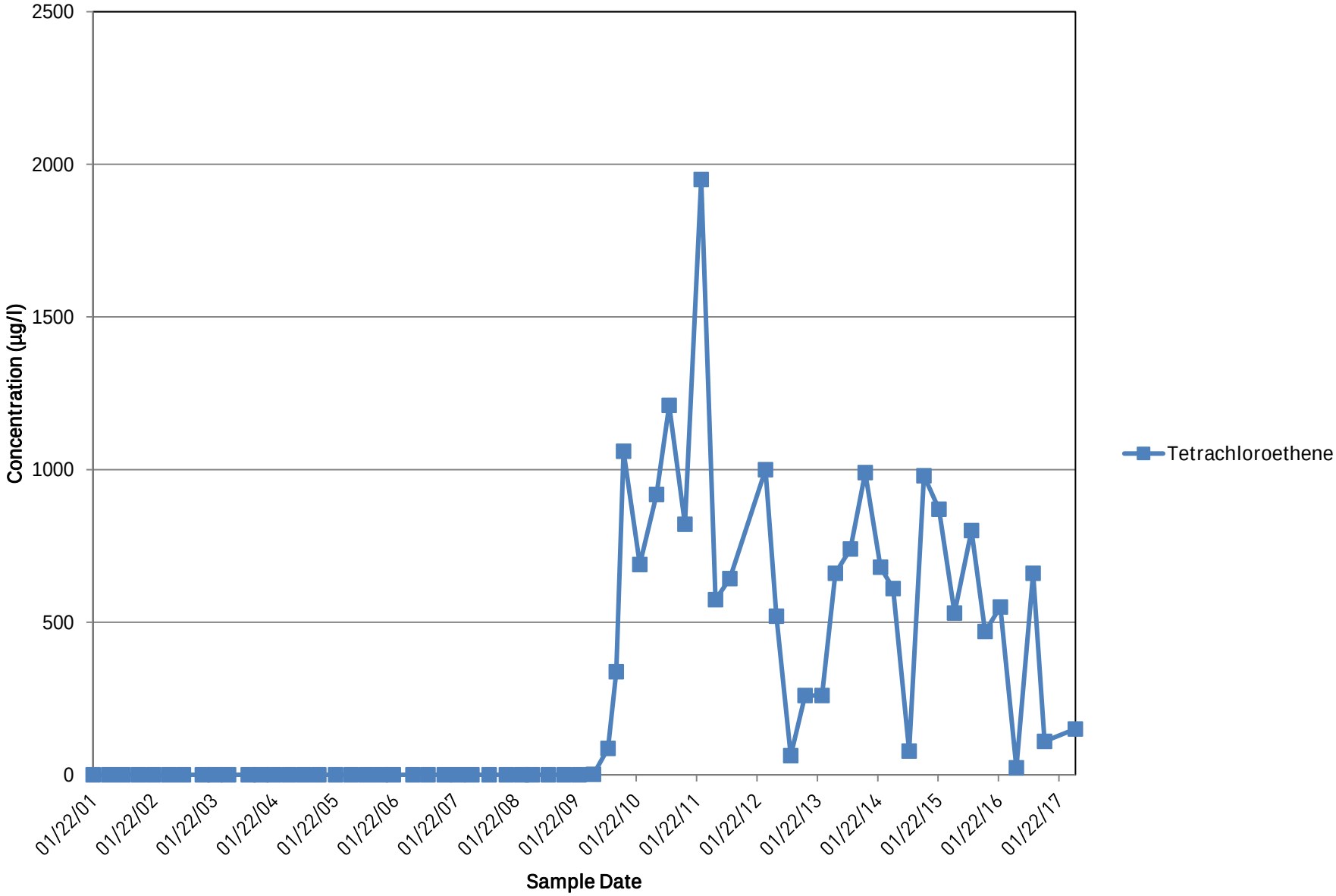

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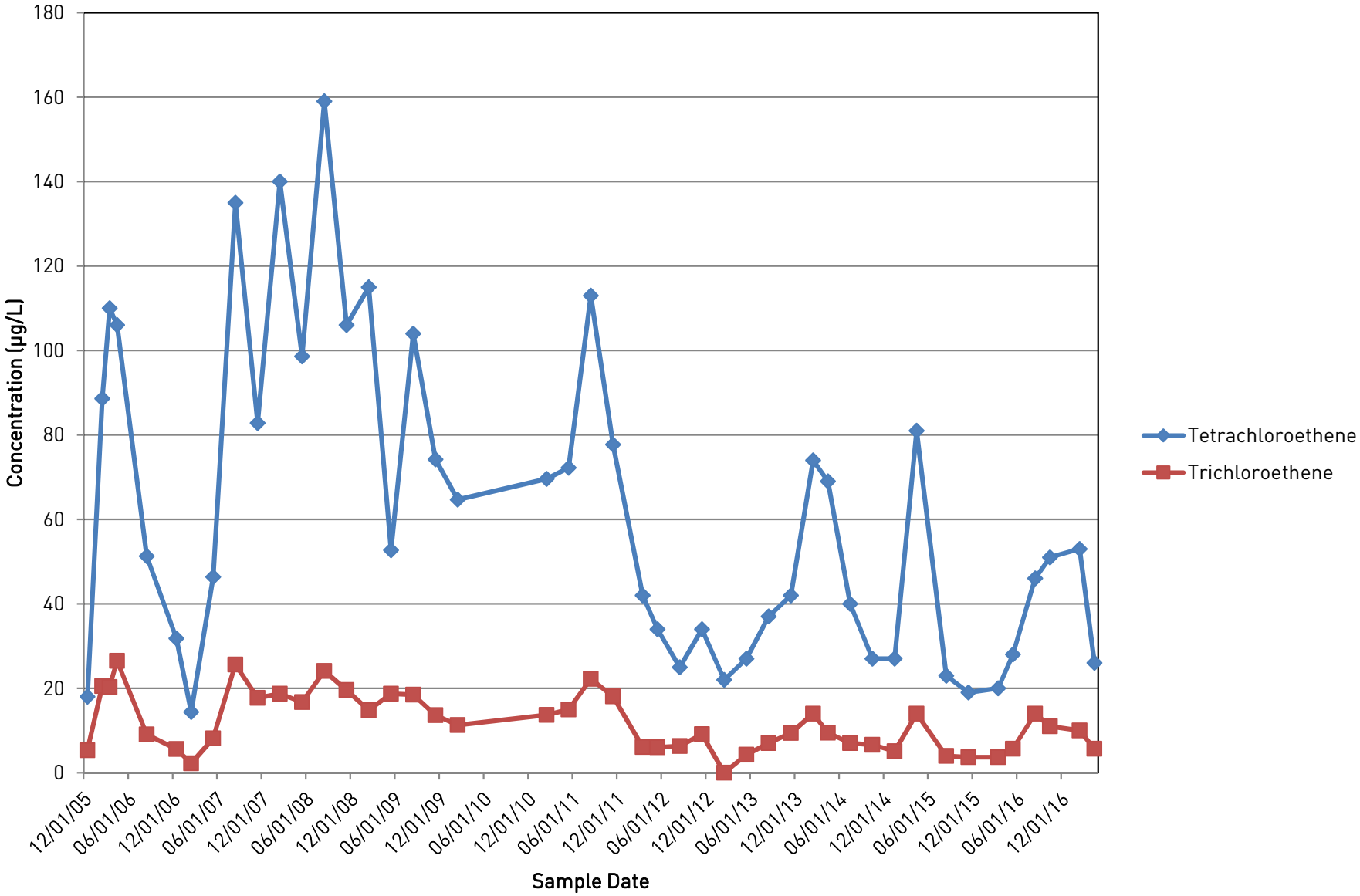
Figure 5
Sand Blanket Drain #1
Time vs. Concentration Chart - Tetrachloroethene and Trichloroethene

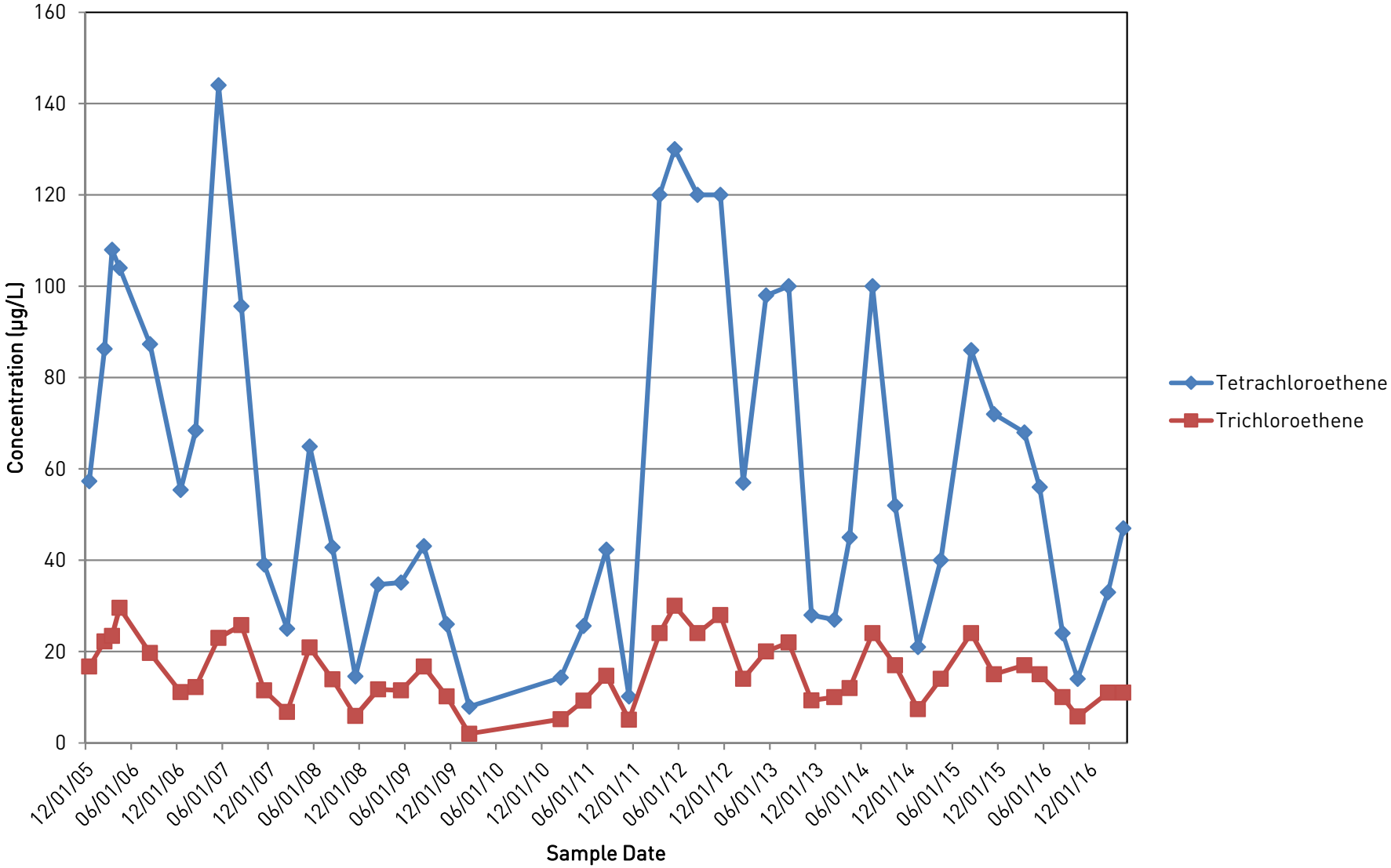
By: BJW
Date: 5/31/2017



SMITH+GARDNER

Figure 6
Sand Blanket Drain #2
Time vs. Concentration Chart - Tetrachloroethene and Trichloroethene

By: BW
Date: 5/31/2017



Appendix A

Site History

Second-Quarter 2017 Water Table Corrective Measures Implementation Report
Pinewood Site
SCD 070 375 985

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Pinewood Site History

The Pinewood Site Custodial Trust (PSCT)[1] was formed at the end of 2003. The PSCT is responsible for the closure and post-closure care of the former commercial hazardous waste storage, treatment, and landfill facility located on the Pinewood Site (Site). Kestrel Horizons, LLC currently serves as Trustee for the PSCT to ensure that trust funds are used responsibly in caring for and monitoring the Site over the next century.

The PSCT includes the approximately 534 acre site containing the landfill units and surrounding property located in Sumter County, South Carolina, as well as a site in Claredon County, South Carolina (located approximately seven miles from the landfill) that provided soil for the Site closure activities.

The Pinewood facility ceased operations in 2000 and entered bankruptcy. Closure activities transpired at the site until the end of 2003. A 102-year post-closure period for the Site was initiated in 2003 once the closure activities had been completed.

Assessments and corrective actions targeting soil and groundwater quality related to Solid Waste Management Units (SWMUs) at the Site were regulated by an EPA 3008(h) Consent Order that terminated in January 2008. The SWMUs were related to claystone mining activities that occurred at the Site between 1972 and 1978, prior to its development as a landfill. The former SWMUs have affected shallow groundwater quality within the Water Table zone and localized sand lenses in the upper portion of the Opaline Claystone unit.

Monitoring Network

Groundwater monitoring has been performed at this site since 1981. The monitoring network across the site consists of over 230 wells to monitor groundwater quality in multiple stratigraphic units underlying the Site.

WT008 – Area Groundwater

A plume containing chlorinated volatile organic compounds (VOCs), primarily tetrachloroethene (PCE) and trichloroethene (TCE), is present between Landfill Sections I and III, near monitoring well WT008. The plume is located within the Water Table zone and in localized sand lenses in the upper portion of the Opaline Claystone unit. A multi-phase Water Table zone investigation[2,3,4] conducted in the vicinity of WT008 concluded that the source area lies between Section III of the landfill and WT008, near the former Maintenance Shop. Assessment activities in the WT008 area are currently ongoing.

---

[1] Detailed Site History: http://www.pinewoodtrust.org/

[2] Phase I Report for Groundwater Assessment Near Well WT-8, Pinewood Site, SCD 070 375 985, Pinewood, South Carolina, prepared by Richardson Smith Gardner and Associates, Inc., dated January 2011.

[3] Phase II Report for Groundwater Assessment Near Well WT-8, Pinewood Site, SCD 070 375 985, Pinewood, South Carolina, prepared by Richardson Smith Gardner & Associates, Inc., dated October 2011.

[4] Phase III Report of Assessment Near Well WT-8, Pinewood Site, SCD 070 375 985, Pinewood, South Carolina, prepared by Smith Gardner, Inc., dated March 14, 2013.

Sand Blanket Drains and the Primary Stormwater Sedimentation Basin

The Primary Stormwater Sedimentation Basin (PSSB) is located between Landfill Sections I, II, and III. The PSSB was constructed in 2004-2005 by excavating soils affected by historical SWMUs related to mining operations conducted on the Site prior to its development as a landfill. Sand Blanket Drains (SBDs) SBD #1 and SBD #2 were constructed in the walls of the PSSB to create a cone of depression in the Water Table zone between Landfill Sections I and III. The SBDs dewater portions of the Water Table zone and localized sand lenses in the upper portion of the Opaline Claystone unit. SBD#1 was constructed along the northwestern and northern sides of the PSSB. SBD#2 was constructed along the southeastern and southern side of the PSSB. The break between SBD#1 and SBD#2 is located near the eastern tip of the PSSB. This groundwater remediation system was approved as the final groundwater remedy by SCDHEC in the "Final Decision and Response to Comments" dated May 21, 2007.

VOCs present in the Water Table aquifer in the vicinity of WT008 are either captured by the SBDs installed in the walls of the PSSB to the west or discharge to the surface water in the East Meadow low area to the south-southeast. The groundwater captured by the SBDs is pumped to aeration basins, where it is treated and tested for VOCs prior to discharge. During storm events or periods of sustained wet weather, surface water from the East Meadow low area flows to the PSSB (during dry weather, no surface water flow occurs). The surface water from the PSSB flows to Pond A, which is also sampled and analyzed for VOCs. To date, VOCs have not been detected in Pond A, indicating that VOCs originating from the historical SMWUs and/or former Maintenance Shop in the WT008 area are being controlled on-site.

Flow

Combined flows from the SBDs typically vary from 5 to 10 gallons per minute. The SBD pumps are operated by timers set to a 45-minute delay between run times to allow groundwater to recover in the SBD collection sumps. Captured groundwater is transferred via a permanent piping system to one of two lined storage basins for treatment prior to National Pollutant Discharge Elimination System (NPDES) permitted[5,6] discharge.

Section I French Drain

The Section I French Drain (FD) was installed along the Section I perimeter to facilitate construction of the landfill. It was designed to lower the water table to reduce the volume of groundwater infiltrating the construction area. Based on design drawings, the Section I FD is open to the water table on both sides. During construction, an additional clay liner was installed along portions of Section I adjacent to the Section I FD. Based on these construction techniques, samples collected from the Section I FD system are representative of groundwater quality upgradient of the Section I landfill.

[5] NPDES permit issued by DHEC June 22, 2005, for the Pinewood Site Custodial Trust, discharge into unnamed tributary to Lake Marion.

[6] Kestrel Horizons, LLC/Pinewood Site Custodial Trust, NPDES Permit SC0042170, Sumter County, prepared by South Carolina Department of Health and Environmental Control to Mr. David M. Comen with Kestrel Horizons, dated July 19, 2010.

The monitoring frequency for the Section I FD outfall and the Section I FD manholes (numbered 1 through 5) was increased to monthly in November 2009. The increase in sampling frequency was instituted in response to VOC detections in perched storm water from the Section I and Section II landfill covers and the presence of 1,1-Dichloroethane in Section I FD Manhole #5.

A source investigation[7] of these detections is ongoing[8]. AECOM has installed a series of permanent soil gas monitoring locations on and around the Section I cover to monitor the effects of soil vapors emanating from Section I into the shallow groundwater.

Perimeter French Drains

Perimeter FDs were installed parallel to the Site perimeter to facilitate landfill construction. The perimeter FDs are located north, east and southeast of the landfill (see **Figure 1**). They were designed to lower the Water Table aquifer to reduce the volume of groundwater infiltrating the construction area. The Perimeter FDs are open to the Water Table on the upgradient (exterior) side and sealed with a compacted clay liner on the downgradient (interior) side. Based on these construction techniques, samples collected from the perimeter FD systems are representative of groundwater quality upgradient of the facility. Samples are collected from the FDs as they discharge into Ponds A and B.

[7] 1,1-Dichloroethane Assessment Workplan, October 15, 2007.

[8] Additional data provided to the SCDHEC for review June 17, 2009 and during a November 2, 2009 meeting.

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Appendix B

Water Table Program
Sampling Parameters

Second-Quarter 2017 Water Table Corrective Measures Implementation Report
Pinewood Site
SCD 070 375 985

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Quarterly Sampling Analytical Parameters
Pinewood Site
Water Table Zone

By: BW
Date: 7/1/2016

Constituent	Method Detection Limit (MDL) (ug/l)	Practical Quantitation Limit (PQL) (ug/l)	Test Method	Maximum Contaminant Level (MCL) (ug/l)
VOLATILE ORGANIC COMPOUNDS				
1,1,1,2-Tetrachloroethane	0.057	1	SW846 8260B	Not Established
1,1,1-Trichloroethane	0.029	1	SW846 8260B	200
1,1,2,2-Tetrachloroethane	0.013	1	SW846 8260B	Not Established
1,1,2-Trichloroethane	0.031	1	SW846 8260B	5
1,1-Dichloroethane	0.054	1	SW846 8260B	Not Established
1,1-Dichloroethene	0.16	1	SW846 8260B	7
1,2,3-Trichloropropane	0.33	1	SW846 8260B	Not Established
1,2,4-Trichlorobenzene	0.17	1	SW846 8260B	70
1,2-Dibromo-3-chloropropane (DBCP)	0.069	1	SW846 8260B	0.2
1,2-Dibromoethane (EDB)	0.061	1	SW846 8260B	Not Established
1,2-Dichlorobenzene	0.17	1	SW846 8260B	600
1,2-Dichloroethane	0.15	1	SW846 8260B	5
1,2-Dichloropropane	0.081	1	SW846 8260B	5
1,3-Dichlorobenzene	0.17	1	SW846 8260B	Not Established
1,4-Dichlorobenzene	0.17	1	SW846 8260B	75
1,4-Dioxane	1.7	50	SW846 8260B SIM	Not Established
2-Butanone (MEK)	2	10	SW846 8260B	Not Established
2-Chloro-1,3-Butadiene (Chloroprene)	0.15	5	SW846 8260B	Not Established
2-Chloroethylvinylether	0.17	100	SW846 8260B	Not Established
2-Hexanone	0.27	10	SW846 8260B	Not Established
3-Chloropropene (Allyl chloride)	0.088	5	SW846 8260B	Not Established
4-Methyl-2-pentanone	0.31	10	SW846 8260B	Not Established
Acetone	3.3	20	SW846 8260B	Not Established
Acetonitrile	5.1	25	SW846 8260B	Not Established
Acrolein	13	5	SW846 8260B	Not Established
Acrylonitrile	1.2	5	SW846 8260B	Not Established
Benzene	0.027	1	SW846 8260B	5
Bromodichloromethane	0.17	1	SW846 8260B	80
Bromoform	0.01	1	SW846 8260B	80
Bromomethane (Methyl bromide)	0.2	1	SW846 8260B	Not Established
Carbon disulfide	0.097	5	SW846 8260B	Not Established
Carbon tetrachloride	0.085	1	SW846 8260B	5
Chlorobenzene	0.17	1	SW846 8260B	100
Chloroethane	0.17	1	SW846 8260B	Not Established
Chloroform	0.17	1	SW846 8260B	80
Chloromethane (Methyl chloride)	0.17	1	SW846 8260B	Not Established
cis-1,2-Dichloroethene	0.087	1	SW846 8260B	70
cis-1,3-Dichloropropene	0.09	1	SW846 8260B	Not Established
Dibromochloromethane	0.17	1	SW846 8260B	80
Dibromomethane (Methylene bromide)	0.094	1	SW846 8260B	Not Established
Dichlorodifluoromethane	0.071	1	SW846 8260B	Not Established
Ethylbenzene	0.17	1	SW846 8260B	700

SMITH+GARDNER

Quarterly Sampling Analytical Parameters
Pinewood Site
Water Table Zone

By: BW
Date: 7/1/2016

Constituent	Method Detection Limit (MDL) (ug/l)	Practical Quantitation Limit (PQL) (ug/l)	Test Method	Maximum Contaminant Level (MCL) (ug/l)
VOLATILE ORGANIC COMPOUNDS				
Isobutyl alcohol	4.5	50	SW846 8260B	Not Established
Methacrylonitrile	0.31	5	SW846 8260B	Not Established
Methyl iodide (Iodomethane)	1.2	5	SW846 8260B	Not Established
Methylene chloride	0.33	5	SW846 8260B	5
Propionitrile (Ethyl cyanide)	2.1	20	SW846 8260B	Not Established
Styrene	0.015	1	SW846 8260B	100
Tetrachloroethene	0.014	1	SW846 8260B	5
Toluene	0.017	1	SW846 8260B	1000
trans-1,2-Dichloroethene	0.079	1	SW846 8260B	100
trans-1,3-Dichloropropene	0.18	1	SW846 8260B	Not Established
trans-1,4-Dichloro-2-butene	0.83	5	SW846 8260B	Not Established
Trichloroethene	0.024	1	SW846 8260B	5
Trichlorofluoromethane	0.051	1	SW846 8260B	Not Established
Vinyl acetate	0.52	5	SW846 8260B	Not Established
Vinyl chloride	0.065	1	SW846 8260B	2
Xylenes (total)	0.17	1	SW846 8260B	10,000
RCRA METALS				
Arsenic	4	10	SW846 3005A/6010C	10
Arsenic	0.26	5	MDMES 200.2/200.8	10
Barium	7.5	100	SW846 3005A/6010C	2000
Cadmium	0.6	5	SW846 3005A/6010C	5
Cadmium	0.059	0.1	MDMES 200.2/200.8	5
Chromium	2.1	20	SW846 3005A/6010C	100
Lead	1.9	15	SW846 3005A/6010C	15
Lead	0.047	2	MDMES 200.2/200.8	15
Nickel	10	50	SW846 3005A/6010C	Not Established
Silver	0.011	5	MDMES 200.2/200.8	Not Established
Zinc	4.5	20	SW846 3005A/6010C	Not Established
Mercury	0.053	0.2	SW846 7470A/7470A	2
FIELD PARAMETERS				
Conductivity	0.717		EPA 120.1	
pH			EPA 150.1	
Turbidity			EPA 180.1	
Temperature - Field			SM SM 2550B	

Appendix C

Laboratory and Field Data

Second-Quarter 2017 Water Table Corrective Measures Implementation Report
Pinewood Site
SCD 070375 985

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Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF Water Table Program (WTP)

Lot Number: SD28059
Date Completed: 05/05/2017

Kelly M. Nance
Project Manager

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

Case Narrative
Smith Gardner, Inc.
Lot Number: SD28059

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.

Volatiles

The LCS associated with batch 41202 had acetone, acetonitrile, acrylonitrile, isobutyl alcohol and propionitrile recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for these compounds in the samples associated with this batch; therefore, data quality is not impacted.

The LCS associated with batch 41277 had acetone recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for this compound in the samples associated with this batch; therefore, data quality is not impacted.

The continuing calibration verification for samples -002, -003, -006, -007, -008 and -009 had acetone, acetonitrile, acrylonitrile, isobutyl alcohol and propionitrile recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for these compounds in the samples associated with this batch; therefore, data quality is not impacted.

The continuing calibration verification for samples -015, -017, -018, -019 and -020 had acrylonitrile recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for this compound in the samples associated with this batch; therefore, data quality is not impacted.

The continuing calibration verification for samples -010, -021 and -022 had acetone and acrylonitrile recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for these compounds in the samples associated with this batch; therefore, data quality is not impacted.

Sample Summary

Smith Gardner, Inc.

Lot Number: SD28059

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Sect. 1 FD MH1	Aqueous	04/27/2017 1100	04/28/2017
002	Sect. 1 FD MH2	Aqueous	04/27/2017 1035	04/28/2017
003	Sect. 1 FD MH3	Aqueous	04/27/2017 1025	04/28/2017
004	Sect. 1 FD MH4	Aqueous	04/27/2017 1240	04/28/2017
005	Sect. 1 FD MH5	Aqueous	04/27/2017 1125	04/28/2017
006	001	Aqueous	04/27/2017 1350	04/28/2017
007	002	Aqueous	04/27/2017 1410	04/28/2017
008	Pond A Per. FD	Aqueous	04/27/2017 1320	04/28/2017
009	Pond B Per. FD	Aqueous	04/27/2017 1425	04/28/2017
010	Pond A Sect. 1 FD	Aqueous	04/27/2017 1340	04/28/2017
011	OCS003B	Aqueous	04/27/2017 1125	04/28/2017
012	OCS003A	Aqueous	04/27/2017 1125	04/28/2017
013	OCS006A	Aqueous	04/27/2017 1335	04/28/2017
014	OCS006B	Aqueous	04/27/2017 1335	04/28/2017
015	OCS008R	Aqueous	04/28/2017 1340	04/28/2017
016	SBD001	Aqueous	04/28/2017 1035	04/28/2017
017	SBD002	Aqueous	04/28/2017 1045	04/28/2017
018	PDB004	Aqueous	04/28/2017 1130	04/28/2017
019	PDB005	Aqueous	04/28/2017 1150	04/28/2017
020	PDB006	Aqueous	04/28/2017 1210	04/28/2017
021	Field Blank	Aqueous	04/27/2017 1555	04/28/2017
022	Trip Blank	Aqueous	04/27/2017	04/28/2017

(22 samples)

Executive Summary

Smith Gardner, Inc.

Lot Number: SD28059

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	Sect. 1 FD MH5	Aqueous	1,4-Dioxane	8260B (SIM	11		ug/L	17
005	Sect. 1 FD MH5	Aqueous	1,1-Dichloroethane	8260B	2.6		ug/L	18
015	OCS008R	Aqueous	cis-1,2-Dichloroethene	8260B	5.1		ug/L	47
016	SBD001	Aqueous	1,1-Dichloroethane	8260B	1.1		ug/L	48
016	SBD001	Aqueous	cis-1,2-Dichloroethene	8260B	6.2		ug/L	48
016	SBD001	Aqueous	Tetrachloroethene	8260B	26		ug/L	48
016	SBD001	Aqueous	Trichloroethene	8260B	5.7		ug/L	48
017	SBD002	Aqueous	1,1-Dichloroethene	8260B	1.2		ug/L	49
017	SBD002	Aqueous	cis-1,2-Dichloroethene	8260B	20		ug/L	49
017	SBD002	Aqueous	Tetrachloroethene	8260B	47		ug/L	49
017	SBD002	Aqueous	Trichloroethene	8260B	11		ug/L	49
018	PDB004	Aqueous	cis-1,2-Dichloroethene	8260B	1.8		ug/L	50
018	PDB004	Aqueous	Tetrachloroethene	8260B	2.2		ug/L	50
018	PDB004	Aqueous	Trichloroethene	8260B	7.1		ug/L	50
019	PDB005	Aqueous	cis-1,2-Dichloroethene	8260B	110		ug/L	51
019	PDB005	Aqueous	trans-1,2-Dichloroethene	8260B	1.7		ug/L	51
019	PDB005	Aqueous	Toluene	8260B	110		ug/L	51
019	PDB005	Aqueous	Trichloroethene	8260B	5.0		ug/L	51
020	PDB006	Aqueous	cis-1,2-Dichloroethene	8260B	64		ug/L	52
020	PDB006	Aqueous	trans-1,2-Dichloroethene	8260B	3.1		ug/L	52
020	PDB006	Aqueous	Toluene	8260B	12		ug/L	52
020	PDB006	Aqueous	Vinyl chloride	8260B	1.8		ug/L	52

(22 detections)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-001
Description: Sect. 1 FD MH1
Matrix: Aqueous
Date Sampled: 04/27/2017 1100
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1244	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		116	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-001
Description: Sect. 1 FD MH1
Matrix: Aqueous
Date Sampled: 04/27/2017 1100
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/02/2017 0433	ECP		40923

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-001
Description: Sect. 1 FD MH1
Matrix: Aqueous
Date Sampled: 04/27/2017 1100
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/02/2017 0433	ECP		40923

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		105	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-002
Description: Sect. 1 FD MH2
Matrix: Aqueous
Date Sampled: 04/27/2017 1035
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1309	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-002
Description: Sect. 1 FD MH2
Matrix: Aqueous
Date Sampled: 04/27/2017 1035
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1620	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-002
Description: Sect. 1 FD MH2
Matrix: Aqueous
Date Sampled: 04/27/2017 1035
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1620	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		101	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-003
Description: Sect. 1 FD MH3
Matrix: Aqueous
Date Sampled: 04/27/2017 1025
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	05/01/2017 1852	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		124	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-003
Description: Sect. 1 FD MH3
Matrix: Aqueous
Date Sampled: 04/27/2017 1025
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1642	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-003
Description: Sect. 1 FD MH3
Matrix: Aqueous
Date Sampled: 04/27/2017 1025
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1642	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-004
Description: Sect. 1 FD MH4
Matrix: Aqueous
Date Sampled: 04/27/2017 1240
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1358	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		114	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-004
Description: Sect. 1 FD MH4
Matrix: Aqueous
Date Sampled: 04/27/2017 1240
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/03/2017 1620	TML		41077

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-004
Description: Sect. 1 FD MH4
Matrix: Aqueous
Date Sampled: 04/27/2017 1240
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/03/2017 1620	TML		41077

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-005
Description: Sect. 1 FD MH5
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1422	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	11		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		117	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-005
Description: Sect. 1 FD MH5
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/03/2017 1641	TML		41077

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	2.6		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-005
Description: Sect. 1 FD MH5
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/03/2017 1641	TML		41077

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-006
Description: 001
Matrix: Aqueous
Date Sampled: 04/27/2017 1350
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1448	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SD28059-006
Description: 001 | Matrix: Aqueous
Date Sampled: 04/27/2017 1350
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1703	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-006
Description: 001
Matrix: Aqueous
Date Sampled: 04/27/2017 1350
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1703	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		104	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-007
Description: 002
Matrix: Aqueous
Date Sampled: 04/27/2017 1410
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1513	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SD28059-007
Description: 002 | Matrix: Aqueous
Date Sampled: 04/27/2017 1410
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1725	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-007
Description: 002
Matrix: Aqueous
Date Sampled: 04/27/2017 1410
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1725	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-008
Description: Pond A Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1320
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	05/02/2017 1304	ECB		40971

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		127	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-008
Description: Pond A Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1320
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1746	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-008
Description: Pond A Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1320
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1746	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		103	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-008
Description: Pond A Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1320
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	05/02/2017 1738	BNW	05/02/2017 0918	40928

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		2.0	ug/L	1
Cadmium	7440-43-9	200.8	ND		0.50	ug/L	1
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-009
Description: Pond B Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1425
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1602	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-009
Description: Pond B Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1425
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1808	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-009
Description: Pond B Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1425
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1808	TML		41202

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		112	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		104	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-009
Description: Pond B Per. FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1425
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	05/02/2017 1801	BNW	05/02/2017 0918	40928

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		2.0	ug/L	1
Cadmium	7440-43-9	200.8	ND		0.50	ug/L	1
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-010
Description: Pond A Sect. 1 FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1340
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/01/2017 1626	ECB		40877

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		119	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-010
Description: Pond A Sect. 1 FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1340
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0042	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-010
Description: Pond A Sect. 1 FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1340
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0042	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		104	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-010
Description: Pond A Sect. 1 FD
Matrix: Aqueous
Date Sampled: 04/27/2017 1340
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	05/02/2017 1818	BNW	05/02/2017 0918	40928

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		2.0	ug/L	1
Cadmium	7440-43-9	200.8	ND		0.50	ug/L	1
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-011
Description: OCS003B
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	04/27/2017 1120	JDS		
1		(Specific Con) 120.1	1	04/27/2017 1120	JDS		
1		(Temperature) SM 2550B-2010	1	04/27/2017 1120	JDS		
1		(Turbidity -) 180.1	1	04/27/2017 1120	JDS		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.06			su	1
Specific Conductance - Field		120.1	60.0		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.0			° C	1
Turbidity - Field		180.1	16		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-011
Description: OCS003B
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1210	JM1		41207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		98	70-130
Toluene-d8		114	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-012
Description: OCS003A
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	04/27/2017 1125	JDS		
1		(Specific Con) 120.1	1	04/27/2017 1125	JDS		
1		(Temperature) SM 2550B-2010	1	04/27/2017 1125	JDS		
1		(Turbidity -) 180.1	1	04/27/2017 1125	JDS		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.23			su	1
Specific Conductance - Field		120.1	60.0		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.0			° C	1
Turbidity - Field		180.1	4.4		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-012
Description: OCS003A
Matrix: Aqueous
Date Sampled: 04/27/2017 1125
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1234	JM1		41207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		110	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-013
Description: OCS006A
Matrix: Aqueous
Date Sampled: 04/27/2017 1335
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	04/27/2017 1335	JDS		
1		(Specific Con) 120.1	1	04/27/2017 1335	JDS		
1		(Temperature) SM 2550B-2010	1	04/27/2017 1335	JDS		
1		(Turbidity -) 180.1	1	04/27/2017 1335	JDS		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.41			su	1
Specific Conductance - Field		120.1	80.0		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.6			° C	1
Turbidity - Field		180.1	10		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-013
Description: OCS006A
Matrix: Aqueous
Date Sampled: 04/27/2017 1335
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1257	JM1		41207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		108	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-014
Description: OCS006B
Matrix: Aqueous
Date Sampled: 04/27/2017 1335
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	04/27/2017 1335	JDS		
1		(Specific Con) 120.1	1	04/27/2017 1335	JDS		
1		(Temperature) SM 2550B-2010	1	04/27/2017 1335	JDS		
1		(Turbidity -) 180.1	1	04/27/2017 1335	JDS		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.09			su	1
Specific Conductance - Field		120.1	80.0		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.8			° C	1
Turbidity - Field		180.1	4.6		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-014
Description: OCS006B
Matrix: Aqueous
Date Sampled: 04/27/2017 1335
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1321	JM1		41207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		112	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-015
Description: OCS008R
Matrix: Aqueous
Date Sampled: 04/28/2017 1340
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	04/28/2017 1340	JDS		
1		(Specific Con) 120.1	1	04/28/2017 1340	JDS		
1		(Temperature) SM 2550B-2010	1	04/28/2017 1340	JDS		
1		(Turbidity -) 180.1	1	04/28/2017 1340	JDS		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.82			su	1
Specific Conductance - Field		120.1	210		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.1			° C	1
Turbidity - Field		180.1	59		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SD28059-015
Description: OCS008R | Matrix: Aqueous
Date Sampled: 04/28/2017 1340
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/04/2017 2254	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	2
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	2
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	5.1		1.0	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	2
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	2
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		103	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-016
Description: SBD001
Matrix: Aqueous
Date Sampled: 04/28/2017 1035
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1407	JM1		41207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	1.1		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	6.2		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	26		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	5.7		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		109	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-017
Description: SBD002
Matrix: Aqueous
Date Sampled: 04/28/2017 1045
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2315	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	1.2		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	20		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	47		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	11		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		105	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SD28059-018
Description: PDB004 | Matrix: Aqueous
Date Sampled: 04/28/2017 1130
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2337	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1.8		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	2.2		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	7.1		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		105	70-130
Toluene-d8		103	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-019
Description: PDB005
Matrix: Aqueous
Date Sampled: 04/28/2017 1150
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2358	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	110		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	1.7		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	110		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	5.0		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-020
Description: PDB006
Matrix: Aqueous
Date Sampled: 04/28/2017 1210
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0020	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	64		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	3.1		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	12		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	1.8		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		104	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SD28059-021
Description: Field Blank | Matrix: Aqueous
Date Sampled: 04/27/2017 1555
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2147	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-021
Description: Field Blank
Matrix: Aqueous
Date Sampled: 04/27/2017 1555
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2147	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-022
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 04/27/2017
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2209	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SD28059-022
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 04/27/2017
Date Received: 04/28/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 2209	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		103	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 PQL
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"

QC Summary

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ40877-001
Batch: 40877
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	05/01/2017 1143

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		116	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ40877-002
Batch: 40877
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	41		1	81	70-130	05/01/2017 1055

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		113	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - Duplicate

Sample ID: SD28059-001DU
Batch: 40877
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,4-Dioxane	ND	ND		1	0.00	20	05/01/2017 1916

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		122	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MS

Sample ID: SD28059-002MS
Batch: 40877
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	ND	50	40		1	81	43-173	05/01/2017 1940

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		120	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ40923-001
Batch: 40923
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/01/2017 2142
Acetonitrile	ND		1	20	ug/L	05/01/2017 2142
Acrolein	ND		1	5.0	ug/L	05/01/2017 2142
Acrylonitrile	ND		1	5.0	ug/L	05/01/2017 2142
Benzene	ND		1	0.50	ug/L	05/01/2017 2142
Bromodichloromethane	ND		1	0.50	ug/L	05/01/2017 2142
Bromoform	ND		1	0.50	ug/L	05/01/2017 2142
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/01/2017 2142
2-Butanone (MEK)	ND		1	10	ug/L	05/01/2017 2142
Carbon disulfide	ND		1	0.50	ug/L	05/01/2017 2142
Carbon tetrachloride	ND		1	0.50	ug/L	05/01/2017 2142
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/01/2017 2142
Chlorobenzene	ND		1	0.50	ug/L	05/01/2017 2142
Chloroethane	ND		1	0.50	ug/L	05/01/2017 2142
Chloroform	ND		1	0.50	ug/L	05/01/2017 2142
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/01/2017 2142
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/01/2017 2142
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/01/2017 2142
Dibromochloromethane	ND		1	0.50	ug/L	05/01/2017 2142
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/01/2017 2142
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/01/2017 2142
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/01/2017 2142
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/01/2017 2142
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/01/2017 2142
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/01/2017 2142
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/01/2017 2142
1,1-Dichloroethane	ND		1	0.50	ug/L	05/01/2017 2142
1,2-Dichloroethane	ND		1	0.50	ug/L	05/01/2017 2142
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/01/2017 2142
1,1-Dichloroethene	ND		1	0.50	ug/L	05/01/2017 2142
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/01/2017 2142
1,2-Dichloropropane	ND		1	0.50	ug/L	05/01/2017 2142
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/01/2017 2142
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/01/2017 2142
Ethylbenzene	ND		1	0.50	ug/L	05/01/2017 2142
2-Hexanone	ND		1	10	ug/L	05/01/2017 2142
Isobutyl alcohol	ND		1	50	ug/L	05/01/2017 2142
Methacrylonitrile	ND		1	5.0	ug/L	05/01/2017 2142
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/01/2017 2142
4-Methyl-2-pentanone	ND		1	10	ug/L	05/01/2017 2142
Methylene chloride	ND		1	0.50	ug/L	05/01/2017 2142
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/01/2017 2142
Styrene	ND		1	0.50	ug/L	05/01/2017 2142
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/01/2017 2142

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ40923-001
Batch: 40923
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/01/2017 2142
Tetrachloroethene	ND		1	0.50	ug/L	05/01/2017 2142
Toluene	ND		1	0.50	ug/L	05/01/2017 2142
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/01/2017 2142
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/01/2017 2142
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/01/2017 2142
Trichloroethene	ND		1	0.50	ug/L	05/01/2017 2142
Trichlorofluoromethane	ND		1	0.50	ug/L	05/01/2017 2142
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/01/2017 2142
Vinyl acetate	ND		1	5.0	ug/L	05/01/2017 2142
Vinyl chloride	ND		1	0.50	ug/L	05/01/2017 2142
Xylenes (total)	ND		1	0.50	ug/L	05/01/2017 2142

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ40923-002
Batch: 40923
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	120		1	116	60-140	05/01/2017 2043
Acetonitrile	500	620		1	125	60-140	05/01/2017 2043
Acrolein	500	590		1	118	14-175	05/01/2017 2043
Acrylonitrile	100	120		1	123	60-140	05/01/2017 2043
Benzene	50	54		1	109	70-130	05/01/2017 2043
Bromodichloromethane	50	55		1	111	70-130	05/01/2017 2043
Bromoform	50	53		1	106	70-130	05/01/2017 2043
Bromomethane (Methyl bromide)	50	52		1	103	60-140	05/01/2017 2043
2-Butanone (MEK)	100	110		1	111	60-140	05/01/2017 2043
Carbon disulfide	50	57		1	113	60-140	05/01/2017 2043
Carbon tetrachloride	50	51		1	102	70-130	05/01/2017 2043
2-Chloro-1,3-Butadiene (Chloroprene)	50	56		1	112	70-130	05/01/2017 2043
Chlorobenzene	50	55		1	111	70-130	05/01/2017 2043
Chloroethane	50	54		1	108	60-140	05/01/2017 2043
Chloroform	50	59		1	117	70-130	05/01/2017 2043
Chloromethane (Methyl chloride)	50	52		1	105	60-140	05/01/2017 2043
3-Chloropropene (Allyl chloride)	50	58		1	117	70-130	05/01/2017 2043
1,2-Dibromo-3-chloropropane (DBCP)	50	49		1	97	70-130	05/01/2017 2043
Dibromochloromethane	50	56		1	111	70-130	05/01/2017 2043
1,2-Dibromoethane (EDB)	50	53		1	105	70-130	05/01/2017 2043
Dibromomethane (Methylene bromide)	50	54		1	108	70-130	05/01/2017 2043
trans-1,4-Dichloro-2-butene	50	50		1	100	34-142	05/01/2017 2043
1,3-Dichlorobenzene	50	55		1	111	70-130	05/01/2017 2043
1,2-Dichlorobenzene	50	53		1	106	70-130	05/01/2017 2043
1,4-Dichlorobenzene	50	53		1	107	70-130	05/01/2017 2043
Dichlorodifluoromethane	50	50		1	99	60-140	05/01/2017 2043
1,1-Dichloroethane	50	59		1	118	70-130	05/01/2017 2043
1,2-Dichloroethane	50	55		1	109	70-130	05/01/2017 2043
cis-1,2-Dichloroethene	50	59		1	118	70-130	05/01/2017 2043
1,1-Dichloroethene	50	55		1	111	70-130	05/01/2017 2043
trans-1,2-Dichloroethene	50	60		1	120	70-130	05/01/2017 2043
1,2-Dichloropropane	50	56		1	112	70-130	05/01/2017 2043
cis-1,3-Dichloropropene	50	56		1	112	70-130	05/01/2017 2043
trans-1,3-Dichloropropene	50	55		1	109	70-130	05/01/2017 2043
Ethylbenzene	50	55		1	109	70-130	05/01/2017 2043
2-Hexanone	100	94		1	94	60-140	05/01/2017 2043
Isobutyl alcohol	500	540		1	109	70-130	05/01/2017 2043
Methacrylonitrile	250	300		1	119	70-130	05/01/2017 2043
Methyl iodide (Iodomethane)	50	56		1	113	70-130	05/01/2017 2043
4-Methyl-2-pentanone	100	100		1	102	60-140	05/01/2017 2043
Methylene chloride	50	55		1	110	70-130	05/01/2017 2043
Propionitrile (Ethyl cyanide)	500	600		1	119	70-130	05/01/2017 2043
Styrene	50	56		1	111	70-130	05/01/2017 2043
1,1,1,2-Tetrachloroethane	50	52		1	105	70-130	05/01/2017 2043

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ40923-002
Batch: 40923
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,2,2-Tetrachloroethane	50	49		1	98	70-130	05/01/2017 2043
Tetrachloroethene	50	58		1	116	70-130	05/01/2017 2043
Toluene	50	58		1	116	70-130	05/01/2017 2043
1,2,4-Trichlorobenzene	50	54		1	108	70-130	05/01/2017 2043
1,1,1-Trichloroethane	50	52		1	105	70-130	05/01/2017 2043
1,1,2-Trichloroethane	50	52		1	104	70-130	05/01/2017 2043
Trichloroethene	50	55		1	111	70-130	05/01/2017 2043
Trichlorofluoromethane	50	54		1	107	60-140	05/01/2017 2043
1,2,3-Trichloropropane	50	54		1	109	70-130	05/01/2017 2043
Vinyl acetate	50	51		1	101	60-140	05/01/2017 2043
Vinyl chloride	50	56		1	112	60-140	05/01/2017 2043
Xylenes (total)	100	110		1	108	70-130	05/01/2017 2043

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ40971-001
Batch: 40971
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	05/02/2017 1221

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		125	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ40971-002
Batch: 40971
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	45		1	90	70-130	05/02/2017 1132

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		125	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41077-001
Batch: 41077
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/03/2017 1021
Acetonitrile	ND		1	20	ug/L	05/03/2017 1021
Acrolein	ND		1	5.0	ug/L	05/03/2017 1021
Acrylonitrile	ND		1	5.0	ug/L	05/03/2017 1021
Benzene	ND		1	0.50	ug/L	05/03/2017 1021
Bromodichloromethane	ND		1	0.50	ug/L	05/03/2017 1021
Bromoform	ND		1	0.50	ug/L	05/03/2017 1021
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/03/2017 1021
2-Butanone (MEK)	ND		1	10	ug/L	05/03/2017 1021
Carbon disulfide	ND		1	0.50	ug/L	05/03/2017 1021
Carbon tetrachloride	ND		1	0.50	ug/L	05/03/2017 1021
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/03/2017 1021
Chlorobenzene	ND		1	0.50	ug/L	05/03/2017 1021
Chloroethane	ND		1	0.50	ug/L	05/03/2017 1021
Chloroform	ND		1	0.50	ug/L	05/03/2017 1021
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/03/2017 1021
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/03/2017 1021
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/03/2017 1021
Dibromochloromethane	ND		1	0.50	ug/L	05/03/2017 1021
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/03/2017 1021
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/03/2017 1021
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/03/2017 1021
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/03/2017 1021
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/03/2017 1021
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/03/2017 1021
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/03/2017 1021
1,2-Dichloroethane	ND		1	0.50	ug/L	05/03/2017 1021
1,1-Dichloroethane	ND		1	0.50	ug/L	05/03/2017 1021
1,1-Dichloroethene	ND		1	0.50	ug/L	05/03/2017 1021
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/03/2017 1021
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/03/2017 1021
1,2-Dichloropropane	ND		1	0.50	ug/L	05/03/2017 1021
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/03/2017 1021
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/03/2017 1021
Ethylbenzene	ND		1	0.50	ug/L	05/03/2017 1021
2-Hexanone	ND		1	10	ug/L	05/03/2017 1021
Isobutyl alcohol	ND		1	50	ug/L	05/03/2017 1021
Methacrylonitrile	ND		1	5.0	ug/L	05/03/2017 1021
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/03/2017 1021
4-Methyl-2-pentanone	ND		1	10	ug/L	05/03/2017 1021
Methylene chloride	ND		1	0.50	ug/L	05/03/2017 1021
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/03/2017 1021
Styrene	ND		1	0.50	ug/L	05/03/2017 1021
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/03/2017 1021

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41077-001
Batch: 41077
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/03/2017 1021
Tetrachloroethene	ND		1	0.50	ug/L	05/03/2017 1021
Toluene	ND		1	0.50	ug/L	05/03/2017 1021
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/03/2017 1021
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/03/2017 1021
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/03/2017 1021
Trichloroethene	ND		1	0.50	ug/L	05/03/2017 1021
Trichlorofluoromethane	ND		1	0.50	ug/L	05/03/2017 1021
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/03/2017 1021
Vinyl acetate	ND		1	5.0	ug/L	05/03/2017 1021
Vinyl chloride	ND		1	0.50	ug/L	05/03/2017 1021
Xylenes (total)	ND		1	0.50	ug/L	05/03/2017 1021

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		105	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41077-002
Batch: 41077
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	130		1	127	60-140	05/03/2017 0925
Acetonitrile	500	510		1	101	60-140	05/03/2017 0925
Acrolein	500	610		1	121	14-175	05/03/2017 0925
Acrylonitrile	100	120		1	121	60-140	05/03/2017 0925
Benzene	50	53		1	105	70-130	05/03/2017 0925
Bromodichloromethane	50	54		1	109	70-130	05/03/2017 0925
Bromoform	50	54		1	108	70-130	05/03/2017 0925
Bromomethane (Methyl bromide)	50	55		1	109	60-140	05/03/2017 0925
2-Butanone (MEK)	100	120		1	123	60-140	05/03/2017 0925
Carbon disulfide	50	57		1	113	60-140	05/03/2017 0925
Carbon tetrachloride	50	51		1	101	70-130	05/03/2017 0925
2-Chloro-1,3-Butadiene (Chloroprene)	50	56		1	112	70-130	05/03/2017 0925
Chlorobenzene	50	56		1	112	70-130	05/03/2017 0925
Chloroethane	50	56		1	113	60-140	05/03/2017 0925
Chloroform	50	59		1	118	70-130	05/03/2017 0925
Chloromethane (Methyl chloride)	50	52		1	104	60-140	05/03/2017 0925
3-Chloropropene (Allyl chloride)	50	58		1	116	70-130	05/03/2017 0925
1,2-Dibromo-3-chloropropane (DBCP)	50	50		1	100	70-130	05/03/2017 0925
Dibromochloromethane	50	57		1	113	70-130	05/03/2017 0925
1,2-Dibromoethane (EDB)	50	53		1	107	70-130	05/03/2017 0925
Dibromomethane (Methylene bromide)	50	53		1	105	70-130	05/03/2017 0925
trans-1,4-Dichloro-2-butene	50	53		1	105	34-142	05/03/2017 0925
1,2-Dichlorobenzene	50	55		1	111	70-130	05/03/2017 0925
1,3-Dichlorobenzene	50	55		1	111	70-130	05/03/2017 0925
1,4-Dichlorobenzene	50	55		1	110	70-130	05/03/2017 0925
Dichlorodifluoromethane	50	61		1	122	60-140	05/03/2017 0925
1,2-Dichloroethane	50	54		1	109	70-130	05/03/2017 0925
1,1-Dichloroethane	50	59		1	118	70-130	05/03/2017 0925
1,1-Dichloroethene	50	55		1	110	70-130	05/03/2017 0925
trans-1,2-Dichloroethene	50	59		1	119	70-130	05/03/2017 0925
cis-1,2-Dichloroethene	50	57		1	115	70-130	05/03/2017 0925
1,2-Dichloropropane	50	56		1	112	70-130	05/03/2017 0925
cis-1,3-Dichloropropene	50	55		1	110	70-130	05/03/2017 0925
trans-1,3-Dichloropropene	50	55		1	111	70-130	05/03/2017 0925
Ethylbenzene	50	56		1	111	70-130	05/03/2017 0925
2-Hexanone	100	100		1	101	60-140	05/03/2017 0925
Isobutyl alcohol	500	580		1	116	70-130	05/03/2017 0925
Methacrylonitrile	250	290		1	117	70-130	05/03/2017 0925
Methyl iodide (Iodomethane)	50	57		1	114	70-130	05/03/2017 0925
4-Methyl-2-pentanone	100	100		1	103	60-140	05/03/2017 0925
Methylene chloride	50	55		1	110	70-130	05/03/2017 0925
Propionitrile (Ethyl cyanide)	500	580		1	116	70-130	05/03/2017 0925
Styrene	50	56		1	113	70-130	05/03/2017 0925
1,1,1,2-Tetrachloroethane	50	53		1	107	70-130	05/03/2017 0925

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41077-002
Batch: 41077
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,2,2-Tetrachloroethane	50	55		1	110	70-130	05/03/2017 0925
Tetrachloroethene	50	57		1	114	70-130	05/03/2017 0925
Toluene	50	58		1	117	70-130	05/03/2017 0925
1,2,4-Trichlorobenzene	50	55		1	111	70-130	05/03/2017 0925
1,1,1-Trichloroethane	50	51		1	101	70-130	05/03/2017 0925
1,1,2-Trichloroethane	50	53		1	105	70-130	05/03/2017 0925
Trichloroethene	50	51		1	101	70-130	05/03/2017 0925
Trichlorofluoromethane	50	60		1	119	60-140	05/03/2017 0925
1,2,3-Trichloropropane	50	55		1	110	70-130	05/03/2017 0925
Vinyl acetate	50	60		1	119	60-140	05/03/2017 0925
Vinyl chloride	50	56		1	112	60-140	05/03/2017 0925
Xylenes (total)	100	110		1	109	70-130	05/03/2017 0925

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		107	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41202-001
Batch: 41202
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/04/2017 1044
Acetonitrile	ND		1	20	ug/L	05/04/2017 1044
Acrolein	ND		1	5.0	ug/L	05/04/2017 1044
Acrylonitrile	ND		1	5.0	ug/L	05/04/2017 1044
Benzene	ND		1	0.50	ug/L	05/04/2017 1044
Bromodichloromethane	ND		1	0.50	ug/L	05/04/2017 1044
Bromoform	ND		1	0.50	ug/L	05/04/2017 1044
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/04/2017 1044
2-Butanone (MEK)	ND		1	10	ug/L	05/04/2017 1044
Carbon disulfide	ND		1	0.50	ug/L	05/04/2017 1044
Carbon tetrachloride	ND		1	0.50	ug/L	05/04/2017 1044
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/04/2017 1044
Chlorobenzene	ND		1	0.50	ug/L	05/04/2017 1044
Chloroethane	ND		1	0.50	ug/L	05/04/2017 1044
Chloroform	ND		1	0.50	ug/L	05/04/2017 1044
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/04/2017 1044
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/04/2017 1044
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/04/2017 1044
Dibromochloromethane	ND		1	0.50	ug/L	05/04/2017 1044
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/04/2017 1044
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/04/2017 1044
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/04/2017 1044
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 1044
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 1044
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 1044
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/04/2017 1044
1,1-Dichloroethane	ND		1	0.50	ug/L	05/04/2017 1044
1,2-Dichloroethane	ND		1	0.50	ug/L	05/04/2017 1044
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 1044
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 1044
1,1-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 1044
1,2-Dichloropropane	ND		1	0.50	ug/L	05/04/2017 1044
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/04/2017 1044
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/04/2017 1044
Ethylbenzene	ND		1	0.50	ug/L	05/04/2017 1044
2-Hexanone	ND		1	10	ug/L	05/04/2017 1044
Isobutyl alcohol	ND		1	50	ug/L	05/04/2017 1044
Methacrylonitrile	ND		1	5.0	ug/L	05/04/2017 1044
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/04/2017 1044
4-Methyl-2-pentanone	ND		1	10	ug/L	05/04/2017 1044
Methylene chloride	ND		1	0.50	ug/L	05/04/2017 1044
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/04/2017 1044
Styrene	ND		1	0.50	ug/L	05/04/2017 1044
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/04/2017 1044

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41202-001
Batch: 41202
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/04/2017 1044
Tetrachloroethene	ND		1	0.50	ug/L	05/04/2017 1044
Toluene	ND		1	0.50	ug/L	05/04/2017 1044
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/04/2017 1044
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/04/2017 1044
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/04/2017 1044
Trichloroethene	ND		1	0.50	ug/L	05/04/2017 1044
Trichlorofluoromethane	ND		1	0.50	ug/L	05/04/2017 1044
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/04/2017 1044
Vinyl acetate	ND		1	5.0	ug/L	05/04/2017 1044
Vinyl chloride	ND		1	0.50	ug/L	05/04/2017 1044
Xylenes (total)	ND		1	0.50	ug/L	05/04/2017 1044

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41202-002
Batch: 41202
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	190	N	1	194	60-140	05/04/2017 0949
Acetonitrile	500	880	N	1	175	60-140	05/04/2017 0949
Acrolein	500	730		1	146	14-175	05/04/2017 0949
Acrylonitrile	100	150	N	1	151	60-140	05/04/2017 0949
Benzene	50	51		1	103	70-130	05/04/2017 0949
Bromodichloromethane	50	52		1	105	70-130	05/04/2017 0949
Bromoform	50	51		1	102	70-130	05/04/2017 0949
Bromomethane (Methyl bromide)	50	55		1	109	60-140	05/04/2017 0949
2-Butanone (MEK)	100	130		1	130	60-140	05/04/2017 0949
Carbon disulfide	50	55		1	110	60-140	05/04/2017 0949
Carbon tetrachloride	50	49		1	98	70-130	05/04/2017 0949
2-Chloro-1,3-Butadiene (Chloroprene)	50	54		1	109	70-130	05/04/2017 0949
Chlorobenzene	50	53		1	106	70-130	05/04/2017 0949
Chloroethane	50	54		1	109	60-140	05/04/2017 0949
Chloroform	50	57		1	114	70-130	05/04/2017 0949
Chloromethane (Methyl chloride)	50	49		1	99	60-140	05/04/2017 0949
3-Chloropropene (Allyl chloride)	50	56		1	113	70-130	05/04/2017 0949
1,2-Dibromo-3-chloropropane (DBCP)	50	52		1	103	70-130	05/04/2017 0949
Dibromochloromethane	50	53		1	107	70-130	05/04/2017 0949
1,2-Dibromoethane (EDB)	50	50		1	100	70-130	05/04/2017 0949
Dibromomethane (Methylene bromide)	50	52		1	103	70-130	05/04/2017 0949
trans-1,4-Dichloro-2-butene	50	47		1	94	34-142	05/04/2017 0949
1,2-Dichlorobenzene	50	52		1	104	70-130	05/04/2017 0949
1,4-Dichlorobenzene	50	51		1	101	70-130	05/04/2017 0949
1,3-Dichlorobenzene	50	52		1	104	70-130	05/04/2017 0949
Dichlorodifluoromethane	50	57		1	113	60-140	05/04/2017 0949
1,1-Dichloroethane	50	58		1	116	70-130	05/04/2017 0949
1,2-Dichloroethane	50	52		1	104	70-130	05/04/2017 0949
trans-1,2-Dichloroethene	50	58		1	116	70-130	05/04/2017 0949
cis-1,2-Dichloroethene	50	58		1	115	70-130	05/04/2017 0949
1,1-Dichloroethene	50	53		1	106	70-130	05/04/2017 0949
1,2-Dichloropropane	50	54		1	107	70-130	05/04/2017 0949
trans-1,3-Dichloropropene	50	51		1	103	70-130	05/04/2017 0949
cis-1,3-Dichloropropene	50	53		1	105	70-130	05/04/2017 0949
Ethylbenzene	50	52		1	103	70-130	05/04/2017 0949
2-Hexanone	100	97		1	97	60-140	05/04/2017 0949
Isobutyl alcohol	500	700	N	1	140	70-130	05/04/2017 0949
Methacrylonitrile	250	300		1	121	70-130	05/04/2017 0949
Methyl iodide (Iodomethane)	50	54		1	109	70-130	05/04/2017 0949
4-Methyl-2-pentanone	100	100		1	103	60-140	05/04/2017 0949
Methylene chloride	50	54		1	108	70-130	05/04/2017 0949
Propionitrile (Ethyl cyanide)	500	710	N	1	142	70-130	05/04/2017 0949
Styrene	50	53		1	106	70-130	05/04/2017 0949
1,1,1,2-Tetrachloroethane	50	50		1	100	70-130	05/04/2017 0949

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41202-002
Batch: 41202
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,2,2-Tetrachloroethane	50	54		1	108	70-130	05/04/2017 0949
Tetrachloroethene	50	54		1	108	70-130	05/04/2017 0949
Toluene	50	55		1	111	70-130	05/04/2017 0949
1,2,4-Trichlorobenzene	50	51		1	103	70-130	05/04/2017 0949
1,1,2-Trichloroethane	50	50		1	101	70-130	05/04/2017 0949
1,1,1-Trichloroethane	50	50		1	99	70-130	05/04/2017 0949
Trichloroethene	50	48		1	95	70-130	05/04/2017 0949
Trichlorofluoromethane	50	57		1	114	60-140	05/04/2017 0949
1,2,3-Trichloropropane	50	53		1	105	70-130	05/04/2017 0949
Vinyl acetate	50	62		1	124	60-140	05/04/2017 0949
Vinyl chloride	50	52		1	105	60-140	05/04/2017 0949
Xylenes (total)	100	100		1	104	70-130	05/04/2017 0949

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41207-001
Batch: 41207
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acrolein	ND		1	20	ug/L	05/04/2017 1050
Acrylonitrile	ND		1	20	ug/L	05/04/2017 1050
Benzene	ND		1	1.0	ug/L	05/04/2017 1050
Bromodichloromethane	ND		1	1.0	ug/L	05/04/2017 1050
Bromoform	ND		1	1.0	ug/L	05/04/2017 1050
Bromomethane (Methyl bromide)	ND		1	2.0	ug/L	05/04/2017 1050
Carbon tetrachloride	ND		1	1.0	ug/L	05/04/2017 1050
Chlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
Chloroethane	ND		1	2.0	ug/L	05/04/2017 1050
Chloroform	ND		1	1.0	ug/L	05/04/2017 1050
Chloromethane (Methyl chloride)	ND		1	1.0	ug/L	05/04/2017 1050
Dibromochloromethane	ND		1	1.0	ug/L	05/04/2017 1050
1,4-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
1,3-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
1,2-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
Dichlorodifluoromethane	ND		1	2.0	ug/L	05/04/2017 1050
1,2-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
1,1-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
trans-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
cis-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
1,1-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
1,2-Dichloropropane	ND		1	1.0	ug/L	05/04/2017 1050
trans-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 1050
cis-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 1050
Ethylbenzene	ND		1	1.0	ug/L	05/04/2017 1050
Methylene chloride	ND		1	1.0	ug/L	05/04/2017 1050
1,1,2,2-Tetrachloroethane	ND		1	1.0	ug/L	05/04/2017 1050
Tetrachloroethene	ND		1	1.0	ug/L	05/04/2017 1050
Toluene	ND		1	1.0	ug/L	05/04/2017 1050
1,1,2-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
1,1,1-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
Trichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
Trichlorofluoromethane	ND		1	1.0	ug/L	05/04/2017 1050
Vinyl chloride	ND		1	1.0	ug/L	05/04/2017 1050

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		113	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41207-002
Batch: 41207
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	460		1	93	60-140	05/04/2017 0958
Acrylonitrile	100	120		1	120	70-130	05/04/2017 0958
Benzene	50	48		1	95	70-130	05/04/2017 0958
Bromodichloromethane	50	44		1	88	70-130	05/04/2017 0958
Bromoform	50	50		1	100	70-130	05/04/2017 0958
Bromomethane (Methyl bromide)	50	55		1	111	60-140	05/04/2017 0958
Carbon tetrachloride	50	50		1	100	70-130	05/04/2017 0958
Chlorobenzene	50	48		1	95	70-130	05/04/2017 0958
Chloroethane	50	57		1	114	60-140	05/04/2017 0958
Chloroform	50	48		1	96	70-130	05/04/2017 0958
Chloromethane (Methyl chloride)	50	55		1	109	60-140	05/04/2017 0958
Dibromochloromethane	50	50		1	100	70-130	05/04/2017 0958
1,4-Dichlorobenzene	50	47		1	94	70-130	05/04/2017 0958
1,3-Dichlorobenzene	50	47		1	94	70-130	05/04/2017 0958
1,2-Dichlorobenzene	50	47		1	95	70-130	05/04/2017 0958
Dichlorodifluoromethane	50	53		1	107	60-140	05/04/2017 0958
1,2-Dichloroethane	50	49		1	97	70-130	05/04/2017 0958
1,1-Dichloroethane	50	46		1	92	70-130	05/04/2017 0958
trans-1,2-Dichloroethene	50	49		1	98	70-130	05/04/2017 0958
cis-1,2-Dichloroethene	50	44		1	88	70-130	05/04/2017 0958
1,1-Dichloroethene	50	47		1	95	70-130	05/04/2017 0958
1,2-Dichloropropane	50	48		1	95	70-130	05/04/2017 0958
trans-1,3-Dichloropropene	50	46		1	92	70-130	05/04/2017 0958
cis-1,3-Dichloropropene	50	48		1	95	70-130	05/04/2017 0958
Ethylbenzene	50	48		1	96	70-130	05/04/2017 0958
Methylene chloride	50	45		1	90	70-130	05/04/2017 0958
1,1,2,2-Tetrachloroethane	50	39		1	79	60-140	05/04/2017 0958
Tetrachloroethene	50	47		1	95	70-130	05/04/2017 0958
Toluene	50	48		1	97	70-130	05/04/2017 0958
1,1,2-Trichloroethane	50	44		1	88	70-130	05/04/2017 0958
1,1,1-Trichloroethane	50	47		1	93	70-130	05/04/2017 0958
Trichloroethene	50	50		1	100	70-130	05/04/2017 0958
Trichlorofluoromethane	50	60		1	121	70-130	05/04/2017 0958
Vinyl chloride	50	57		1	113	70-130	05/04/2017 0958

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		93	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 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

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: SQ41207-003
Batch: 41207
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acrolein	500	490		1	99	6.1	60-140	20	05/04/2017 1432
Acrylonitrile	100	120		1	123	2.6	70-130	20	05/04/2017 1432
Benzene	50	53		1	105	9.8	70-130	20	05/04/2017 1432
Bromodichloromethane	50	47		1	94	6.4	70-130	20	05/04/2017 1432
Bromoform	50	52		1	103	2.8	70-130	20	05/04/2017 1432
Bromomethane (Methyl bromide)	50	65		1	129	15	60-140	20	05/04/2017 1432
Carbon tetrachloride	50	54		1	107	7.3	70-130	20	05/04/2017 1432
Chlorobenzene	50	51		1	102	6.9	70-130	20	05/04/2017 1432
Chloroethane	50	67		1	135	17	60-140	20	05/04/2017 1432
Chloroform	50	52		1	103	7.3	70-130	20	05/04/2017 1432
Chloromethane (Methyl chloride)	50	57		1	113	3.4	60-140	20	05/04/2017 1432
Dibromochloromethane	50	52		1	103	3.4	70-130	20	05/04/2017 1432
1,4-Dichlorobenzene	50	49		1	98	4.2	70-130	20	05/04/2017 1432
1,3-Dichlorobenzene	50	49		1	97	2.9	70-130	20	05/04/2017 1432
1,2-Dichlorobenzene	50	49		1	98	3.5	70-130	20	05/04/2017 1432
Dichlorodifluoromethane	50	45		1	90	17	60-140	20	05/04/2017 1432
1,2-Dichloroethane	50	52		1	103	6.0	70-130	20	05/04/2017 1432
1,1-Dichloroethane	50	49		1	98	6.6	70-130	20	05/04/2017 1432
trans-1,2-Dichloroethene	50	51		1	102	4.3	70-130	20	05/04/2017 1432
cis-1,2-Dichloroethene	50	46		1	93	4.9	70-130	20	05/04/2017 1432
1,1-Dichloroethene	50	48		1	96	1.6	70-130	20	05/04/2017 1432
1,2-Dichloropropane	50	52		1	104	8.6	70-130	20	05/04/2017 1432
trans-1,3-Dichloropropene	50	48		1	95	3.3	70-130	20	05/04/2017 1432
cis-1,3-Dichloropropene	50	50		1	100	4.9	70-130	20	05/04/2017 1432
Ethylbenzene	50	52		1	104	7.8	70-130	20	05/04/2017 1432
Methylene chloride	50	45		1	91	0.67	70-130	20	05/04/2017 1432
1,1,2,2-Tetrachloroethane	50	41		1	82	3.2	60-140	20	05/04/2017 1432
Tetrachloroethene	50	51		1	102	6.9	70-130	20	05/04/2017 1432
Toluene	50	52		1	104	7.6	70-130	20	05/04/2017 1432
1,1,2-Trichloroethane	50	47		1	94	6.5	70-130	20	05/04/2017 1432
1,1,1-Trichloroethane	50	50		1	100	6.9	70-130	20	05/04/2017 1432
Trichloroethene	50	53		1	106	6.1	70-130	20	05/04/2017 1432
Trichlorofluoromethane	50	60		1	121	0.018	70-130	20	05/04/2017 1432
Vinyl chloride	50	62		1	125	9.8	70-130	20	05/04/2017 1432

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		113	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41277-001
Batch: 41277
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acrolein	ND		1	20	ug/L	05/04/2017 2110
Acrylonitrile	ND		1	20	ug/L	05/04/2017 2110
Benzene	ND		1	1.0	ug/L	05/04/2017 2110
Bromodichloromethane	ND		1	1.0	ug/L	05/04/2017 2110
Bromoform	ND		1	1.0	ug/L	05/04/2017 2110
Bromomethane (Methyl bromide)	ND		1	2.0	ug/L	05/04/2017 2110
Carbon tetrachloride	ND		1	1.0	ug/L	05/04/2017 2110
Chlorobenzene	ND		1	1.0	ug/L	05/04/2017 2110
Chloroethane	ND		1	2.0	ug/L	05/04/2017 2110
Chloroform	ND		1	1.0	ug/L	05/04/2017 2110
Chloromethane (Methyl chloride)	ND		1	1.0	ug/L	05/04/2017 2110
Dibromochloromethane	ND		1	1.0	ug/L	05/04/2017 2110
1,3-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 2110
1,4-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 2110
1,2-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 2110
Dichlorodifluoromethane	ND		1	2.0	ug/L	05/04/2017 2110
1,1-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 2110
1,2-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 2110
trans-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 2110
cis-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 2110
1,1-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 2110
1,2-Dichloropropane	ND		1	1.0	ug/L	05/04/2017 2110
trans-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 2110
cis-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 2110
Ethylbenzene	ND		1	1.0	ug/L	05/04/2017 2110
Methylene chloride	ND		1	1.0	ug/L	05/04/2017 2110
1,1,2,2-Tetrachloroethane	ND		1	1.0	ug/L	05/04/2017 2110
Tetrachloroethene	ND		1	1.0	ug/L	05/04/2017 2110
Toluene	ND		1	1.0	ug/L	05/04/2017 2110
1,1,2-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 2110
1,1,1-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 2110
Trichloroethene	ND		1	1.0	ug/L	05/04/2017 2110
Trichlorofluoromethane	ND		1	1.0	ug/L	05/04/2017 2110
Vinyl chloride	ND		1	1.0	ug/L	05/04/2017 2110

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41277-002
Batch: 41277
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	620		1	124	60-140	05/04/2017 2011
Acrylonitrile	100	120		1	125	70-130	05/04/2017 2011
Benzene	50	50		1	99	70-130	05/04/2017 2011
Bromodichloromethane	50	50		1	100	70-130	05/04/2017 2011
Bromoform	50	48		1	97	70-130	05/04/2017 2011
Bromomethane (Methyl bromide)	50	62		1	125	60-140	05/04/2017 2011
Carbon tetrachloride	50	48		1	96	70-130	05/04/2017 2011
Chlorobenzene	50	51		1	101	70-130	05/04/2017 2011
Chloroethane	50	63		1	127	60-140	05/04/2017 2011
Chloroform	50	54		1	109	70-130	05/04/2017 2011
Chloromethane (Methyl chloride)	50	54		1	109	60-140	05/04/2017 2011
Dibromochloromethane	50	51		1	101	70-130	05/04/2017 2011
1,3-Dichlorobenzene	50	51		1	102	70-130	05/04/2017 2011
1,4-Dichlorobenzene	50	49		1	99	70-130	05/04/2017 2011
1,2-Dichlorobenzene	50	50		1	100	70-130	05/04/2017 2011
Dichlorodifluoromethane	50	66		1	131	60-140	05/04/2017 2011
1,1-Dichloroethane	50	56		1	112	70-130	05/04/2017 2011
1,2-Dichloroethane	50	51		1	102	70-130	05/04/2017 2011
trans-1,2-Dichloroethene	50	55		1	110	70-130	05/04/2017 2011
cis-1,2-Dichloroethene	50	54		1	108	70-130	05/04/2017 2011
1,1-Dichloroethene	50	51		1	101	70-130	05/04/2017 2011
1,2-Dichloropropane	50	52		1	104	70-130	05/04/2017 2011
trans-1,3-Dichloropropene	50	50		1	100	70-130	05/04/2017 2011
cis-1,3-Dichloropropene	50	51		1	102	70-130	05/04/2017 2011
Ethylbenzene	50	50		1	99	70-130	05/04/2017 2011
Methylene chloride	50	52		1	104	70-130	05/04/2017 2011
1,1,2,2-Tetrachloroethane	50	50		1	101	60-140	05/04/2017 2011
Tetrachloroethene	50	52		1	104	70-130	05/04/2017 2011
Toluene	50	52		1	105	70-130	05/04/2017 2011
1,1,2-Trichloroethane	50	47		1	95	70-130	05/04/2017 2011
1,1,1-Trichloroethane	50	48		1	97	70-130	05/04/2017 2011
Trichloroethene	50	47		1	93	70-130	05/04/2017 2011
Trichlorofluoromethane	50	60		1	120	70-130	05/04/2017 2011
Vinyl chloride	50	57		1	114	70-130	05/04/2017 2011

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41277-001
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/04/2017 2110
Acetonitrile	ND		1	20	ug/L	05/04/2017 2110
Acrolein	ND		1	5.0	ug/L	05/04/2017 2110
Acrylonitrile	ND		1	5.0	ug/L	05/04/2017 2110
Benzene	ND		1	0.50	ug/L	05/04/2017 2110
Bromodichloromethane	ND		1	0.50	ug/L	05/04/2017 2110
Bromoform	ND		1	0.50	ug/L	05/04/2017 2110
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/04/2017 2110
2-Butanone (MEK)	ND		1	10	ug/L	05/04/2017 2110
Carbon disulfide	ND		1	0.50	ug/L	05/04/2017 2110
Carbon tetrachloride	ND		1	0.50	ug/L	05/04/2017 2110
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/04/2017 2110
Chlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
Chloroethane	ND		1	0.50	ug/L	05/04/2017 2110
Chloroform	ND		1	0.50	ug/L	05/04/2017 2110
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/04/2017 2110
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/04/2017 2110
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/04/2017 2110
Dibromochloromethane	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/04/2017 2110
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/04/2017 2110
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/04/2017 2110
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/04/2017 2110
1,1-Dichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
1,1-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dichloropropane	ND		1	0.50	ug/L	05/04/2017 2110
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/04/2017 2110
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/04/2017 2110
Ethylbenzene	ND		1	0.50	ug/L	05/04/2017 2110
2-Hexanone	ND		1	10	ug/L	05/04/2017 2110
Isobutyl alcohol	ND		1	50	ug/L	05/04/2017 2110
Methacrylonitrile	ND		1	5.0	ug/L	05/04/2017 2110
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/04/2017 2110
4-Methyl-2-pentanone	ND		1	10	ug/L	05/04/2017 2110
Methylene chloride	ND		1	0.50	ug/L	05/04/2017 2110
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/04/2017 2110
Styrene	ND		1	0.50	ug/L	05/04/2017 2110
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/04/2017 2110

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41277-001
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/04/2017 2110
Tetrachloroethene	ND		1	0.50	ug/L	05/04/2017 2110
Toluene	ND		1	0.50	ug/L	05/04/2017 2110
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
Trichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
Trichlorofluoromethane	ND		1	0.50	ug/L	05/04/2017 2110
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/04/2017 2110
Vinyl acetate	ND		1	5.0	ug/L	05/04/2017 2110
Vinyl chloride	ND		1	0.50	ug/L	05/04/2017 2110
Xylenes (total)	ND		1	0.50	ug/L	05/04/2017 2110

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41277-002
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	140	N	1	144	60-140	05/04/2017 2011
Acetonitrile	500	650		1	130	60-140	05/04/2017 2011
Acrolein	500	620		1	124	14-175	05/04/2017 2011
Acrylonitrile	100	120		1	125	60-140	05/04/2017 2011
Benzene	50	50		1	99	70-130	05/04/2017 2011
Bromodichloromethane	50	50		1	100	70-130	05/04/2017 2011
Bromoform	50	48		1	97	70-130	05/04/2017 2011
Bromomethane (Methyl bromide)	50	62		1	125	60-140	05/04/2017 2011
2-Butanone (MEK)	100	110		1	114	60-140	05/04/2017 2011
Carbon disulfide	50	53		1	107	60-140	05/04/2017 2011
Carbon tetrachloride	50	48		1	96	70-130	05/04/2017 2011
2-Chloro-1,3-Butadiene (Chloroprene)	50	53		1	105	70-130	05/04/2017 2011
Chlorobenzene	50	51		1	101	70-130	05/04/2017 2011
Chloroethane	50	63		1	127	60-140	05/04/2017 2011
Chloroform	50	54		1	109	70-130	05/04/2017 2011
Chloromethane (Methyl chloride)	50	54		1	109	60-140	05/04/2017 2011
3-Chloropropene (Allyl chloride)	50	53		1	106	70-130	05/04/2017 2011
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	91	70-130	05/04/2017 2011
Dibromochloromethane	50	51		1	101	70-130	05/04/2017 2011
1,2-Dibromoethane (EDB)	50	48		1	97	70-130	05/04/2017 2011
Dibromomethane (Methylene bromide)	50	49		1	97	70-130	05/04/2017 2011
trans-1,4-Dichloro-2-butene	50	47		1	94	34-142	05/04/2017 2011
1,3-Dichlorobenzene	50	51		1	102	70-130	05/04/2017 2011
1,4-Dichlorobenzene	50	49		1	99	70-130	05/04/2017 2011
1,2-Dichlorobenzene	50	50		1	100	70-130	05/04/2017 2011
Dichlorodifluoromethane	50	66		1	131	60-140	05/04/2017 2011
1,1-Dichloroethane	50	56		1	112	70-130	05/04/2017 2011
1,2-Dichloroethane	50	51		1	102	70-130	05/04/2017 2011
trans-1,2-Dichloroethene	50	55		1	110	70-130	05/04/2017 2011
cis-1,2-Dichloroethene	50	54		1	108	70-130	05/04/2017 2011
1,1-Dichloroethene	50	51		1	101	70-130	05/04/2017 2011
1,2-Dichloropropane	50	52		1	104	70-130	05/04/2017 2011
trans-1,3-Dichloropropene	50	50		1	100	70-130	05/04/2017 2011
cis-1,3-Dichloropropene	50	51		1	102	70-130	05/04/2017 2011
Ethylbenzene	50	50		1	99	70-130	05/04/2017 2011
2-Hexanone	100	93		1	93	60-140	05/04/2017 2011
Isobutyl alcohol	500	580		1	116	70-130	05/04/2017 2011
Methacrylonitrile	250	280		1	111	70-130	05/04/2017 2011
Methyl iodide (Iodomethane)	50	52		1	105	70-130	05/04/2017 2011
4-Methyl-2-pentanone	100	98		1	98	60-140	05/04/2017 2011
Methylene chloride	50	52		1	104	70-130	05/04/2017 2011
Propionitrile (Ethyl cyanide)	500	510		1	101	70-130	05/04/2017 2011
Styrene	50	51		1	102	70-130	05/04/2017 2011
1,1,2,2-Tetrachloroethane	50	50		1	101	70-130	05/04/2017 2011

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41277-002
Batch: 41277
Analytical Method: 8260B
Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,1,2-Tetrachloroethane	50	47		1	95	70-130	05/04/2017 2011
Tetrachloroethene	50	52		1	104	70-130	05/04/2017 2011
Toluene	50	52		1	105	70-130	05/04/2017 2011
1,2,4-Trichlorobenzene	50	50		1	99	70-130	05/04/2017 2011
1,1,2-Trichloroethane	50	47		1	95	70-130	05/04/2017 2011
1,1,1-Trichloroethane	50	48		1	97	70-130	05/04/2017 2011
Trichloroethene	50	47		1	93	70-130	05/04/2017 2011
Trichlorofluoromethane	50	60		1	120	60-140	05/04/2017 2011
1,2,3-Trichloropropane	50	50		1	101	70-130	05/04/2017 2011
Vinyl acetate	50	57		1	114	60-140	05/04/2017 2011
Vinyl chloride	50	57		1	114	60-140	05/04/2017 2011
Xylenes (total)	100	99		1	99	70-130	05/04/2017 2011

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - MB

Sample ID: SQ40928-001
Batch: 40928
Analytical Method: 200.8
Matrix: Aqueous
Prep Method: 200.2
Prep Date: 05/02/2017 918

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		1	2.0	ug/L	05/02/2017 1647
Cadmium	ND		1	0.50	ug/L	05/02/2017 1647
Lead	ND		1	1.0	ug/L	05/02/2017 1647
Silver	ND		1	1.0	ug/L	05/02/2017 1647

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - LCS

Sample ID: SQ40928-002
Batch: 40928
Analytical Method: 200.8
Matrix: Aqueous
Prep Method: 200.2
Prep Date: 05/02/2017 918

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	100	100		1	103	85-115	05/02/2017 1653
Cadmium	100	100		1	103	85-115	05/02/2017 1653
Lead	100	100		1	101	85-115	05/02/2017 1653
Silver	100	100		1	103	85-115	05/02/2017 1653

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

ICP-MS - MS

Sample ID: SD28059-008MS
Batch: 40928
Analytical Method: 200.8
Matrix: Aqueous
Prep Method: 200.2
Prep Date: 05/02/2017 918

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	100	97		1	97	70-130	05/02/2017 1744
Cadmium	ND	100	100		1	101	70-130	05/02/2017 1744
Lead	ND	100	100		1	101	70-130	05/02/2017 1744
Silver	ND	100	97		1	97	70-130	05/02/2017 1744

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - MSD

Sample ID: SD28059-008MD
Batch: 40928
Analytical Method: 200.8
Matrix: Aqueous
Prep Method: 200.2
Prep Date: 05/02/2017 918

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	100	99		1	99	2.3	70-130	20	05/02/2017 1750
Cadmium	ND	100	100		1	103	2.4	70-130	20	05/02/2017 1750
Lead	ND	100	100		1	102	0.98	70-130	20	05/02/2017 1750
Silver	ND	100	99		1	99	2.2	70-130	20	05/02/2017 1750

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and >_MDL
N = Recovery is out of criteria
+ = 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.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

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
www.shealylab.com

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15144
Address: 14 North Bolyan Ave	Sampler's Signature: x Britt Ranson	Waybill No.	Page 1 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Britt Ranson		
Project Name: Pinewood Water Table Program			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

SD28059

Sample ID / Description (Containers for each sample may be combined on one line)	2017 Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+ZN	Appendix IX VOC + cis-1,2-DCE	1,4-Dioxane SIM	As,Cd,Pb,Ag
Sect. 1 FD MH1	4/27	1100	G	X						6				X	X	
Sect. 1 FD MH2		1035	G	X						6				X	X	
Sect. 1 FD MH3		1025	G	X						6				X	X	
Sect. 1 FD MH4		1240	G	X						6				X	X	
Sect. 1 FD MH5		1125	G	X						6				X	X	
001		1350	G	X						6				X	X	
002		1410	G	X						6				X	X	
Pond A Per. FD		1320	G	X					1	6				X	X	X
Pond B Per. FD		1425	G	X					1	6				X	X	X
Pond A Sect. 1 FD		1340	G	X					1	6				X	X	X

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by: Britt Ranson	4-28-17	1550	1. Received by:	4.28.17	1550
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	4/28/17	1710	3. Laboratory Received by	4/28/17	1710

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 3.7 °C

Document Number: F-AD-104 Effective Date 06-10-10

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15127
Address	**Sampler's Signature**	**Waybill No.**	**Page**
14 North Bolyan Ave	x Britt Ransom		1 of 2
City / State / Zip Code	**Printed Name**		
Raleigh / NC / 27603	Britt Ransom		
Project Name water Table ~~Pinewood Detection Monitoring (GW)~~			
Project Number	**P.O Number**		

Analysis (Attach list if more space is needed)

SD28059

Sample ID / Description (Containers for each sample may be combined on one line)	Date 2017	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+ZN	VOC	1,4 Dioxane SIM	Metals + Hg - As,Ba,Cd,Cr,Pb,Ni,Z	Chloride/TDS	Priority Pollutants + Cisl, Z
OCS003B	4/27	1125	G	X			4		1	4								✓
OCS003A	4/27	1125	"	"														✓
OCS006A	4/27	1335	"	"														✓
OCS006B	4/27	1335	"	"														✓
OCS008R	4/28	1340	"	"														✓
SBD.001	4/28	1035	"	"														✓
SBD 002	4/28	1045	"	"														✓
PDB 004	4/28	1130	"	"														✓
POB 005	4/28	1150	"	"														✓
PDB006	4/28	1210	X	4														✓

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown

Sample Disposal
☐ Return to Client ☒ Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
☒ Standard ☐ Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	4/28/17	1550	1. Received by	4-28-17	1550
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	4/28/17	1710	3. Laboratory Received by	4/28/17	1710

Comments

LAB USE ONLY
Received on Ice (Check) ☒ Y ☐ N ☐ Ice Pack

Receipt Temp. 3.7 °C

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gordon Cooler Inspected by/date: CCT 4/28/22 Lot #: SDB58059

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: 17-619 Cl strip ID:			
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 3.7/3.7 °C / / °C / / °C / / °C			
Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C			
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? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☑	No ☒	CCT	15. Were any samples containers missing/excess (circle one) 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 ☐	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 ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	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?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?
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 _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.			
Sample(s) 013, 022 were received with bubbles >6 mm in diameter.			
Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.			
SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____ Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____			
Sample labels applied by: _____ Verified by: _____ Date: _____			

Comments: Received field blank & trip blank not on chain

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID DC50038 Sample Time 1125

Field Personnel PB JS Sample Date 4/27/17

Weather Conditions SUNNY Air Temperature (°F) 75

Total Depth (ft.) 30 (from well log)

Depth to Static Water Surface (ft.) 16.36

Calculated Well Volume (1 casing volume) (gal.) 3

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 15

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 3.99 / 6.91 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 3.99 / 6.91 pH 4/27/17 Date

Purge Start Time	1035	Purge Stop Time	1120
Purge Date	4/27/17	Total Gallons Purged	15
Purge Method	bailer		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	3	6	9		
Time	-	1035	1100	1110	1120		
Temperature	°C	21.3	21.8	21.2	22.0		
pH	Std. units	5.02	5.04	5.10	5.06		
Conductivity	µmhos/cm	66	50	66	60		
Turbidity	NTUs	—	—	—	15.9		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS 003A Sample Time 1125

Field Personnel PB JS Sample Date 4.27.17

Weather Conditions SUNNY Air Temperature (°F) 75

Total Depth (ft.) 52.0 (from well log)

Depth to Static Water Surface (ft.) 18.97

Calculated Well Volume (1 casing volume) (gal.) 5

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 25

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 3.99 / 6.91 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 3.99 / 6.91 pH _____ Date

Purge Start Time	1040	Purge Stop Time	1125
Purge Date	4-27-17	Total Gallons Purged	15
Purge Method	bailer		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	5	10	15		
Time	-	1040	1100	1110	1125		
Temperature	°C	20.7	20.9	22.2	21.0		
pH	Std. units	5.36	5.01	5.25	5.23		
Conductivity	µmhos/cm	60	60	60	60		
Turbidity	NTUs	—	—	—	4.35		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☑ (10% of samples verified per SAP)		

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS 006A Sample Time 1335

Field Personnel PB JS Sample Date 4/27/16

Weather Conditions Cloudy Air Temperature (°F) 75

Total Depth (ft.) 40.81 (from well log)

Depth to Static Water Surface (ft.) 17.33

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4.0, 10) (circle two) Actual Reading 3.99/6.91 pH

pH Calibration During Sampling (4.0, 10) (circle two) Actual Reading 3.99/6.91 pH 4/27/17 Date

Purge Start Time	1300	Purge Stop Time	1335	
Purge Date	4/27/17	Total Gallons Purged	12	
Purge Method	bailer			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	4	8	12		
Time	-	1300	1320	1325	1335		
Temperature	°C	21.1	20.2	20.2	21.6		
pH	Std. units	5.64	5.66	5.57	5.41		
Conductivity	µmhos/cm	90	90	90	80		
Turbidity	NTUs	—	—	—	9.95		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS006B Sample Time 1335

Field Personnel PB, JS Sample Date 4.27.17

Weather Conditions cloudy Air Temperature (°F) 75

Total Depth (ft.) 31.95 (from well log)

Depth to Static Water Surface (ft.) 10.66

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 3.99 | 6.91 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 3.99 | 6.91 pH 4 | 27 | 17 Date

Purge Start Time	1300	Purge Stop Time	1335	
Purge Date	4.27.17	Total Gallons Purged	12	
Purge Method	bailer			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	4	8	12		
Time	-	1310	1320	1329	1335		
Temperature	°C	19.6	19.8	19.5	22.8		
pH	Std. units	4.86	4.87	4.90	5.09		
Conductivity	µmhos/cm	90	90	80	80		
Turbidity	NTUs	—	—	—	4.63		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☐ No ☒	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID UCS008R Sample Time 1340

Field Personnel PB, JS Sample Date 4/28/17

Weather Conditions SUNNY - HOT Air Temperature (°F) 90

Total Depth (ft.) 58.56 (from well log)

Depth to Static Water Surface (ft.) 47.90

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 3.99/6.91 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading 4.01/7.01 pH 4/28/17 Date

Purge Start Time	1435	Purge Stop Time	1456
Purge Date	4-27-17	Total Gallons Purged	DRY (0) 3
Purge Method	bailer		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	2			(0) Sample	
Time	-	1440	1445			1340	
Temperature	°C	23.2	21.1			24.1	
pH	Std. units	5.81	6.05			5.82	
Conductivity	µmhos/cm	200	180			210	
Turbidity	NTUs	—	—			58.5	

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF Water Table Program (WTP)

Lot Number: SE01031
Date Completed: 05/09/2017

Kelly M. Nance
Project Manager

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

Case Narrative
Smith Gardner, Inc.
Lot Number: SE01031

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.

Volatiles
The LCS associated with batch 41277 had acetone recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for this compound in the samples associated with this batch; therefore, data quality is not impacted.

The continuing calibration verification for sample -008 had acetone and acrylonitrile recovered above the acceptance limits. This demonstrates a high bias on analytical results. There were no detections for these compounds in the samples associated with this batch; therefore, data quality is not impacted.

Sample Summary
Smith Gardner, Inc.
Lot Number: SE01031

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	WT026	Aqueous	05/01/2017 1310	05/01/2017
002	WT008	Aqueous	05/01/2017 1405	05/01/2017
003	OCS004	Aqueous	05/01/2017 1250	05/01/2017
004	WT038	Aqueous	05/01/2017 1545	05/01/2017
005	WT037	Aqueous	05/01/2017 1555	05/01/2017
006	OCS001	Aqueous	05/01/2017 1443	05/01/2017
007	WT036	Aqueous	05/01/2017 1600	05/01/2017
008	FD#4	Aqueous	05/01/2017 1530	05/01/2017
009	FD#2	Aqueous	05/01/2017 1540	05/01/2017
010	FIELD BLANK	Aqueous	05/01/2017 1605	05/01/2017
011	TRIP BLANK	Aqueous	05/01/2017	05/01/2017

(11 samples)

Executive Summary

Smith Gardner, Inc.

Lot Number: SE01031

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	WT026	Aqueous	Barium	6010D	0.069		mg/L	7
002	WT008	Aqueous	1,1-Dichloroethene	8260B	2.0		ug/L	9
002	WT008	Aqueous	cis-1,2-Dichloroethene	8260B	8.3		ug/L	9
002	WT008	Aqueous	Tetrachloroethene	8260B	150		ug/L	9
002	WT008	Aqueous	Barium	6010D	0.031		mg/L	10
002	WT008	Aqueous	Mercury	7470A	0.00011		mg/L	10
004	WT038	Aqueous	Tetrachloroethene	8260B	6.5		ug/L	14
005	WT037	Aqueous	cis-1,2-Dichloroethene	8260B	1.7		ug/L	16
005	WT037	Aqueous	Tetrachloroethene	8260B	56		ug/L	16
005	WT037	Aqueous	Trichloroethene	8260B	1.6		ug/L	16
007	WT036	Aqueous	Tetrachloroethene	8260B	6.1		ug/L	20
008	FD#4	Aqueous	1,1-Dichloroethene	8260B	2.2		ug/L	22
008	FD#4	Aqueous	cis-1,2-Dichloroethene	8260B	3.3		ug/L	22
008	FD#4	Aqueous	Tetrachloroethene	8260B	150		ug/L	23
008	FD#4	Aqueous	1,1,1-Trichloroethane	8260B	2.4		ug/L	23
008	FD#4	Aqueous	Trichloroethene	8260B	0.78		ug/L	23
009	FD#2	Aqueous	Tetrachloroethene	8260B	57		ug/L	26
010	FIELD BLANK	Aqueous	Chloroform	8260B	3.3		ug/L	27

(18 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-001
Description: WT026
Matrix: Aqueous
Date Sampled: 05/01/2017 1310
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1310	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1310	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1310	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1310	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	6.12			su	1
Specific Conductance - Field		120.1	279		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	19.7			° C	1
Turbidity - Field		180.1	12		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-001
Description: WT026
Matrix: Aqueous
Date Sampled: 05/01/2017 1310
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1444	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	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 PQL
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"

RCRA Metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-001
Description: WT026
Matrix: Aqueous
Date Sampled: 05/01/2017 1310
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	05/02/2017 1218	COH	05/02/2017 0901	40929
1	3005A	6010D	1	05/04/2017 1623	CJZ	05/02/2017 1727	40990

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.069		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Selenium	7782-49-2	6010D	ND		0.020	mg/L	1
Silver	7440-22-4	6010D	ND		0.010	mg/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-002
Description: WT008
Matrix: Aqueous
Date Sampled: 05/01/2017 1405
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1405	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1405	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1405	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1405	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.51			su	1
Specific Conductance - Field		120.1	138		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.2			° C	1
Turbidity - Field		180.1	26		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-002
Description: WT008
Matrix: Aqueous
Date Sampled: 05/01/2017 1405
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/08/2017 1233	TML		41441

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	2
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	2
Benzene	71-43-2	8260B	ND		1.0	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	2
Bromoform	75-25-2	8260B	ND		1.0	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	2
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	2
Chloroform	67-66-3	8260B	ND		1.0	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	2.0		1.0	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	8.3		1.0	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	2
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	2
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	2
Tetrachloroethene	127-18-4	8260B	150		1.0	ug/L	2
Toluene	108-88-3	8260B	ND		1.0	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	2
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		104	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		102	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 PQL
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"

RCRA Metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-002
Description: WT008
Matrix: Aqueous
Date Sampled: 05/01/2017 1405
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	05/02/2017 1220	COH	05/02/2017 0901	40929
1	3005A	6010D	1	05/04/2017 1701	CJZ	05/02/2017 1727	40990

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.031		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Mercury	7439-97-6	7470A	0.00011		0.00010	mg/L	1
Selenium	7782-49-2	6010D	ND		0.020	mg/L	1
Silver	7440-22-4	6010D	ND		0.010	mg/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-003
Description: OCS004
Matrix: Aqueous
Date Sampled: 05/01/2017 1250
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1250	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1250	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1250	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1250	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.74			su	1
Specific Conductance - Field		120.1	95.3		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.3			° C	1
Turbidity - Field		180.1	14		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-003
Description: OCS004
Matrix: Aqueous
Date Sampled: 05/01/2017 1250
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1531	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-004
Description: WT038
Matrix: Aqueous
Date Sampled: 05/01/2017 1545
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1545	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1545	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1545	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1545	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.85			su	1
Specific Conductance - Field		120.1	278		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.5			° C	1
Turbidity - Field		180.1	38		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-004
Description: WT038
Matrix: Aqueous
Date Sampled: 05/01/2017 1545
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1554	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	6.5		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-005
Description: WT037
Matrix: Aqueous
Date Sampled: 05/01/2017 1555
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1555	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1555	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1555	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1555	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.15			su	1
Specific Conductance - Field		120.1	207		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.0			° C	1
Turbidity - Field		180.1	22		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-005
Description: WT037
Matrix: Aqueous
Date Sampled: 05/01/2017 1555
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1617	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1.7		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	56		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	1.6		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		88	70-130
Bromofluorobenzene		92	70-130
Toluene-d8		90	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-006
Description: OCS001
Matrix: Aqueous
Date Sampled: 05/01/2017 1443
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1443	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1443	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1443	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1443	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.88			su	1
Specific Conductance - Field		120.1	156		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.4			° C	1
Turbidity - Field		180.1	3.7		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-006
Description: OCS001
Matrix: Aqueous
Date Sampled: 05/01/2017 1443
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1640	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		93	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-007
Description: WT036
Matrix: Aqueous
Date Sampled: 05/01/2017 1600
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1600	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1600	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1600	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1600	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	4.45			su	1
Specific Conductance - Field		120.1	149		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	23.1			° C	1
Turbidity - Field		180.1	48		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-007
Description: WT036
Matrix: Aqueous
Date Sampled: 05/01/2017 1600
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1703	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	6.1		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		92	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-008
Description: FD#4
Matrix: Aqueous
Date Sampled: 05/01/2017 1530
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1530	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1530	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1530	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1530	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	4.56			su	1
Specific Conductance - Field		120.1	317		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.2			° C	1
Turbidity - Field		180.1	9.8		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-008
Description: FD#4
Matrix: Aqueous
Date Sampled: 05/01/2017 1530
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0103	ECP		41277
2	5030B	8260B	5	05/06/2017 0036	ECP		41374

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	2.2		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	3.3		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
1,4-Dioxane	123-91-1	8260B	ND		20	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-008
Description: FD#4
Matrix: Aqueous
Date Sampled: 05/01/2017 1530
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0103	ECP		41277
2	5030B	8260B	5	05/06/2017 0036	ECP		41374

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	150		2.5	ug/L	2
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	2.4		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	0.78		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		108	70-130		97	70-130
Bromofluorobenzene		106	70-130		106	70-130
Toluene-d8		103	70-130		105	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-009
Description: FD#2
Matrix: Aqueous
Date Sampled: 05/01/2017 1540
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/01/2017 1540	CAE		
1		(Specific Con) 120.1	1	05/01/2017 1540	CAE		
1		(Temperature) SM 2550B-2010	1	05/01/2017 1540	CAE		
1		(Turbidity -) 180.1	1	05/01/2017 1540	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	4.65			su	1
Specific Conductance - Field		120.1	328		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	22.7			° C	1
Turbidity - Field		180.1	4.4		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-009
Description: FD#2
Matrix: Aqueous
Date Sampled: 05/01/2017 1540
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0125	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
1,4-Dioxane	123-91-1	8260B	ND		20	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-009
Description: FD#2
Matrix: Aqueous
Date Sampled: 05/01/2017 1540
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0125	ECP		41277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	57		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		103	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-010
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 05/01/2017 1605
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1310	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	3.3		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		93	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE01031-011
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 05/01/2017
Date Received: 05/01/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1333	TML		41213

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		93	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 PQL
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"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41213-001
Batch: 41213
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acrolein	ND		1	20	ug/L	05/04/2017 1100
Acrylonitrile	ND		1	20	ug/L	05/04/2017 1100
Benzene	ND		1	1.0	ug/L	05/04/2017 1100
Bromodichloromethane	ND		1	1.0	ug/L	05/04/2017 1100
Bromoform	ND		1	1.0	ug/L	05/04/2017 1100
Bromomethane (Methyl bromide)	ND		1	2.0	ug/L	05/04/2017 1100
Carbon tetrachloride	ND		1	1.0	ug/L	05/04/2017 1100
Chlorobenzene	ND		1	1.0	ug/L	05/04/2017 1100
Chloroethane	ND		1	2.0	ug/L	05/04/2017 1100
Chloroform	ND		1	1.0	ug/L	05/04/2017 1100
Chloromethane (Methyl chloride)	ND		1	1.0	ug/L	05/04/2017 1100
Dibromochloromethane	ND		1	1.0	ug/L	05/04/2017 1100
1,3-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1100
1,2-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1100
1,4-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1100
Dichlorodifluoromethane	ND		1	2.0	ug/L	05/04/2017 1100
1,1-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 1100
1,2-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 1100
cis-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1100
1,1-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1100
trans-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1100
1,2-Dichloropropane	ND		1	1.0	ug/L	05/04/2017 1100
cis-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 1100
trans-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 1100
Ethylbenzene	ND		1	1.0	ug/L	05/04/2017 1100
Methylene chloride	ND		1	1.0	ug/L	05/04/2017 1100
1,1,2,2-Tetrachloroethane	ND		1	1.0	ug/L	05/04/2017 1100
Tetrachloroethene	ND		1	1.0	ug/L	05/04/2017 1100
Toluene	ND		1	1.0	ug/L	05/04/2017 1100
1,1,1-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 1100
1,1,2-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 1100
Trichloroethene	ND		1	1.0	ug/L	05/04/2017 1100
Trichlorofluoromethane	ND		1	1.0	ug/L	05/04/2017 1100
Vinyl chloride	ND		1	1.0	ug/L	05/04/2017 1100

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		92	70-130
1,2-Dichloroethane-d4		91	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41213-002
Batch: 41213
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	250	170		1	67	60-140	05/04/2017 1001
Acrylonitrile	40	40		1	99	70-130	05/04/2017 1001
Benzene	20	17		1	85	70-130	05/04/2017 1001
Bromodichloromethane	20	17		1	87	70-130	05/04/2017 1001
Bromoform	20	16		1	82	70-130	05/04/2017 1001
Bromomethane (Methyl bromide)	20	22		1	109	60-140	05/04/2017 1001
Carbon tetrachloride	20	17		1	84	70-130	05/04/2017 1001
Chlorobenzene	20	18		1	89	70-130	05/04/2017 1001
Chloroethane	20	18		1	88	60-140	05/04/2017 1001
Chloroform	20	17		1	85	70-130	05/04/2017 1001
Chloromethane (Methyl chloride)	20	18		1	91	60-140	05/04/2017 1001
Dibromochloromethane	20	18		1	89	70-130	05/04/2017 1001
1,3-Dichlorobenzene	20	17		1	87	70-130	05/04/2017 1001
1,2-Dichlorobenzene	20	18		1	90	70-130	05/04/2017 1001
1,4-Dichlorobenzene	20	17		1	86	70-130	05/04/2017 1001
Dichlorodifluoromethane	20	18		1	90	60-140	05/04/2017 1001
1,1-Dichloroethane	20	17		1	83	70-130	05/04/2017 1001
1,2-Dichloroethane	20	18		1	90	70-130	05/04/2017 1001
cis-1,2-Dichloroethene	20	17		1	85	70-130	05/04/2017 1001
1,1-Dichloroethene	20	18		1	90	70-130	05/04/2017 1001
trans-1,2-Dichloroethene	20	18		1	88	70-130	05/04/2017 1001
1,2-Dichloropropane	20	18		1	88	70-130	05/04/2017 1001
cis-1,3-Dichloropropene	20	18		1	90	70-130	05/04/2017 1001
trans-1,3-Dichloropropene	20	17		1	85	70-130	05/04/2017 1001
Ethylbenzene	20	18		1	88	70-130	05/04/2017 1001
Methylene chloride	20	16		1	81	70-130	05/04/2017 1001
1,1,2,2-Tetrachloroethane	20	17		1	85	60-140	05/04/2017 1001
Tetrachloroethene	20	17		1	86	70-130	05/04/2017 1001
Toluene	20	18		1	89	70-130	05/04/2017 1001
1,1,1-Trichloroethane	20	16		1	82	70-130	05/04/2017 1001
1,1,2-Trichloroethane	20	17		1	86	70-130	05/04/2017 1001
Trichloroethene	20	17		1	86	70-130	05/04/2017 1001
Trichlorofluoromethane	20	16		1	80	70-130	05/04/2017 1001
Vinyl chloride	20	17		1	87	70-130	05/04/2017 1001

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		96	70-130
1,2-Dichloroethane-d4		88	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 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

Volatile Organic Compounds by GC/MS - MS

Sample ID: SE01031-002MS
Batch: 41213
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
Acrolein	ND	1300	800		5	64	26-134	05/04/2017 1922
Acrylonitrile	ND	200	200		5	98	70-122	05/04/2017 1922
Benzene	ND	100	90		5	90	72-127	05/04/2017 1922
Bromodichloromethane	ND	100	91		5	91	71-143	05/04/2017 1922
Bromoform	ND	100	78		5	78	65-131	05/04/2017 1922
Bromomethane (Methyl bromide)	ND	100	110		5	110	36-168	05/04/2017 1922
Carbon tetrachloride	ND	100	93		5	93	37-166	05/04/2017 1922
Chlorobenzene	ND	100	92		5	92	78-129	05/04/2017 1922
Chloroethane	ND	100	98		5	98	60-140	05/04/2017 1922
Chloroform	ND	100	90		5	90	63-123	05/04/2017 1922
Chloromethane (Methyl chloride)	ND	100	100		5	104	20-158	05/04/2017 1922
Dibromochloromethane	ND	100	89		5	89	74-134	05/04/2017 1922
1,2-Dichlorobenzene	ND	100	94		5	94	70-130	05/04/2017 1922
1,3-Dichlorobenzene	ND	100	90		5	90	70-130	05/04/2017 1922
1,4-Dichlorobenzene	ND	100	89		5	89	70-130	05/04/2017 1922
Dichlorodifluoromethane	ND	100	110		5	105	10-158	05/04/2017 1922
1,1-Dichloroethane	ND	100	89		5	89	69-132	05/04/2017 1922
1,2-Dichloroethane	ND	100	96		5	96	59-143	05/04/2017 1922
1,1-Dichloroethene	2.0	100	99		5	99	50-132	05/04/2017 1922
cis-1,2-Dichloroethene	8.3	100	95		5	90	70-130	05/04/2017 1922
trans-1,2-Dichloroethene	ND	100	93		5	93	67-141	05/04/2017 1922
1,2-Dichloropropane	ND	100	93		5	93	71-126	05/04/2017 1922
cis-1,3-Dichloropropene	ND	100	85		5	85	69-130	05/04/2017 1922
trans-1,3-Dichloropropene	ND	100	85		5	85	73-131	05/04/2017 1922
Ethylbenzene	ND	100	94		5	94	79-132	05/04/2017 1922
Methylene chloride	ND	100	86		5	86	69-129	05/04/2017 1922
1,1,2,2-Tetrachloroethane	ND	100	89		5	89	60-155	05/04/2017 1922
Tetrachloroethene	150	100	200		5	94	70-130	05/04/2017 1922
Toluene	ND	100	94		5	94	75-125	05/04/2017 1922
1,1,1-Trichloroethane	ND	100	92		5	92	77-132	05/04/2017 1922
1,1,2-Trichloroethane	ND	100	89		5	89	77-132	05/04/2017 1922
Trichloroethene	ND	100	96		5	96	73-124	05/04/2017 1922
Trichlorofluoromethane	ND	100	97		5	97	41-173	05/04/2017 1922
Vinyl chloride	ND	100	96		5	96	29-159	05/04/2017 1922

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		94	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: SE01031-002MD
Batch: 41213
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
Acrolein	ND	1300	830		5	66	3.0	26-134	20	05/04/2017 1946
Acrylonitrile	ND	200	200		5	99	0.51	70-122	20	05/04/2017 1946
Benzene	ND	100	92		5	92	1.8	72-127	20	05/04/2017 1946
Bromodichloromethane	ND	100	90		5	90	0.19	71-143	20	05/04/2017 1946
Bromoform	ND	100	76		5	76	1.7	65-131	20	05/04/2017 1946
Bromomethane (Methyl bromide)	ND	100	120		5	117	5.6	36-168	20	05/04/2017 1946
Carbon tetrachloride	ND	100	93		5	93	0.75	37-166	20	05/04/2017 1946
Chlorobenzene	ND	100	93		5	93	0.75	78-129	20	05/04/2017 1946
Chloroethane	ND	100	99		5	99	0.67	60-140	20	05/04/2017 1946
Chloroform	ND	100	91		5	91	0.60	63-123	20	05/04/2017 1946
Chloromethane (Methyl chloride)	ND	100	110		5	106	2.2	20-158	20	05/04/2017 1946
Dibromochloromethane	ND	100	86		5	86	3.0	74-134	20	05/04/2017 1946
1,2-Dichlorobenzene	ND	100	93		5	93	0.66	70-130	20	05/04/2017 1946
1,3-Dichlorobenzene	ND	100	91		5	91	0.31	70-130	20	05/04/2017 1946
1,4-Dichlorobenzene	ND	100	89		5	89	0.32	70-130	20	05/04/2017 1946
Dichlorodifluoromethane	ND	100	110		5	105	0.0057	10-158	20	05/04/2017 1946
1,1-Dichloroethane	ND	100	89		5	89	0.52	69-132	20	05/04/2017 1946
1,2-Dichloroethane	ND	100	95		5	95	1.2	59-143	20	05/04/2017 1946
1,1-Dichloroethene	2.0	100	100		5	100	0.68	50-132	20	05/04/2017 1946
cis-1,2-Dichloroethene	8.3	100	96		5	91	1.4	70-130	20	05/04/2017 1946
trans-1,2-Dichloroethene	ND	100	94		5	94	0.80	67-141	20	05/04/2017 1946
1,2-Dichloropropane	ND	100	94		5	94	0.85	71-126	20	05/04/2017 1946
cis-1,3-Dichloropropene	ND	100	88		5	88	3.2	69-130	20	05/04/2017 1946
trans-1,3-Dichloropropene	ND	100	84		5	84	1.7	73-131	20	05/04/2017 1946
Ethylbenzene	ND	100	94		5	94	0.0043	79-132	20	05/04/2017 1946
Methylene chloride	ND	100	85		5	85	1.3	69-129	20	05/04/2017 1946
1,1,2,2-Tetrachloroethane	ND	100	88		5	88	0.33	60-155	20	05/04/2017 1946
Tetrachloroethene	150	100	200		5	100	2.6	70-130	20	05/04/2017 1946
Toluene	ND	100	94		5	94	0.27	75-125	20	05/04/2017 1946
1,1,1-Trichloroethane	ND	100	94		5	94	2.2	77-132	20	05/04/2017 1946
1,1,2-Trichloroethane	ND	100	88		5	88	0.38	77-132	20	05/04/2017 1946
Trichloroethene	ND	100	95		5	95	0.93	73-124	20	05/04/2017 1946
Trichlorofluoromethane	ND	100	97		5	97	0.74	41-173	20	05/04/2017 1946
Vinyl chloride	ND	100	97		5	97	1.5	29-159	20	05/04/2017 1946

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41277-001
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/04/2017 2110
Acetonitrile	ND		1	20	ug/L	05/04/2017 2110
Acrolein	ND		1	5.0	ug/L	05/04/2017 2110
Acrylonitrile	ND		1	5.0	ug/L	05/04/2017 2110
Benzene	ND		1	0.50	ug/L	05/04/2017 2110
Bromodichloromethane	ND		1	0.50	ug/L	05/04/2017 2110
Bromoform	ND		1	0.50	ug/L	05/04/2017 2110
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/04/2017 2110
2-Butanone (MEK)	ND		1	10	ug/L	05/04/2017 2110
Carbon disulfide	ND		1	0.50	ug/L	05/04/2017 2110
Carbon tetrachloride	ND		1	0.50	ug/L	05/04/2017 2110
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/04/2017 2110
Chlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
Chloroethane	ND		1	0.50	ug/L	05/04/2017 2110
Chloroform	ND		1	0.50	ug/L	05/04/2017 2110
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/04/2017 2110
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/04/2017 2110
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/04/2017 2110
Dibromochloromethane	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/04/2017 2110
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/04/2017 2110
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/04/2017 2110
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/04/2017 2110
1,1-Dichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
1,1-Dichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
1,2-Dichloropropane	ND		1	0.50	ug/L	05/04/2017 2110
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/04/2017 2110
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/04/2017 2110
1,4-Dioxane	ND		1	20	ug/L	05/04/2017 2110
Ethylbenzene	ND		1	0.50	ug/L	05/04/2017 2110
2-Hexanone	ND		1	10	ug/L	05/04/2017 2110
Isobutyl alcohol	ND		1	50	ug/L	05/04/2017 2110
Methacrylonitrile	ND		1	5.0	ug/L	05/04/2017 2110
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/04/2017 2110
4-Methyl-2-pentanone	ND		1	10	ug/L	05/04/2017 2110
Methylene chloride	ND		1	0.50	ug/L	05/04/2017 2110
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/04/2017 2110
Styrene	ND		1	0.50	ug/L	05/04/2017 2110

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41277-001
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/04/2017 2110
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/04/2017 2110
Tetrachloroethene	ND		1	0.50	ug/L	05/04/2017 2110
Toluene	ND		1	0.50	ug/L	05/04/2017 2110
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/04/2017 2110
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/04/2017 2110
Trichloroethene	ND		1	0.50	ug/L	05/04/2017 2110
Trichlorofluoromethane	ND		1	0.50	ug/L	05/04/2017 2110
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/04/2017 2110
Vinyl acetate	ND		1	5.0	ug/L	05/04/2017 2110
Vinyl chloride	ND		1	0.50	ug/L	05/04/2017 2110
Xylenes (total)	ND		1	0.50	ug/L	05/04/2017 2110

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		104	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		105	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41277-002
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	140	N	1	144	60-140	05/04/2017 2011
Acetonitrile	500	650		1	130	60-140	05/04/2017 2011
Acrolein	500	620		1	124	14-175	05/04/2017 2011
Acrylonitrile	100	120		1	125	60-140	05/04/2017 2011
Benzene	50	50		1	99	70-130	05/04/2017 2011
Bromodichloromethane	50	50		1	100	70-130	05/04/2017 2011
Bromoform	50	48		1	97	70-130	05/04/2017 2011
Bromomethane (Methyl bromide)	50	62		1	125	60-140	05/04/2017 2011
2-Butanone (MEK)	100	110		1	114	60-140	05/04/2017 2011
Carbon disulfide	50	53		1	107	60-140	05/04/2017 2011
Carbon tetrachloride	50	48		1	96	70-130	05/04/2017 2011
2-Chloro-1,3-Butadiene (Chloroprene)	50	53		1	105	70-130	05/04/2017 2011
Chlorobenzene	50	51		1	101	70-130	05/04/2017 2011
Chloroethane	50	63		1	127	60-140	05/04/2017 2011
Chloroform	50	54		1	109	70-130	05/04/2017 2011
Chloromethane (Methyl chloride)	50	54		1	109	60-140	05/04/2017 2011
3-Chloropropene (Allyl chloride)	50	53		1	106	70-130	05/04/2017 2011
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	91	70-130	05/04/2017 2011
Dibromochloromethane	50	51		1	101	70-130	05/04/2017 2011
1,2-Dibromoethane (EDB)	50	48		1	97	70-130	05/04/2017 2011
Dibromomethane (Methylene bromide)	50	49		1	97	70-130	05/04/2017 2011
trans-1,4-Dichloro-2-butene	50	47		1	94	34-142	05/04/2017 2011
1,3-Dichlorobenzene	50	51		1	102	70-130	05/04/2017 2011
1,4-Dichlorobenzene	50	49		1	99	70-130	05/04/2017 2011
1,2-Dichlorobenzene	50	50		1	100	70-130	05/04/2017 2011
Dichlorodifluoromethane	50	66		1	131	60-140	05/04/2017 2011
1,1-Dichloroethane	50	56		1	112	70-130	05/04/2017 2011
1,2-Dichloroethane	50	51		1	102	70-130	05/04/2017 2011
trans-1,2-Dichloroethene	50	55		1	110	70-130	05/04/2017 2011
cis-1,2-Dichloroethene	50	54		1	108	70-130	05/04/2017 2011
1,1-Dichloroethene	50	51		1	101	70-130	05/04/2017 2011
1,2-Dichloropropane	50	52		1	104	70-130	05/04/2017 2011
trans-1,3-Dichloropropene	50	50		1	100	70-130	05/04/2017 2011
cis-1,3-Dichloropropene	50	51		1	102	70-130	05/04/2017 2011
1,4-Dioxane	500	550		1	109	43-173	05/04/2017 2011
Ethylbenzene	50	50		1	99	70-130	05/04/2017 2011
2-Hexanone	100	93		1	93	60-140	05/04/2017 2011
Isobutyl alcohol	500	580		1	116	70-130	05/04/2017 2011
Methacrylonitrile	250	280		1	111	70-130	05/04/2017 2011
Methyl iodide (Iodomethane)	50	52		1	105	70-130	05/04/2017 2011
4-Methyl-2-pentanone	100	98		1	98	60-140	05/04/2017 2011
Methylene chloride	50	52		1	104	70-130	05/04/2017 2011
Propionitrile (Ethyl cyanide)	500	510		1	101	70-130	05/04/2017 2011
Styrene	50	51		1	102	70-130	05/04/2017 2011

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41277-002
Batch: 41277
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,2,2-Tetrachloroethane	50	50		1	101	70-130	05/04/2017 2011
1,1,1,2-Tetrachloroethane	50	47		1	95	70-130	05/04/2017 2011
Tetrachloroethene	50	52		1	104	70-130	05/04/2017 2011
Toluene	50	52		1	105	70-130	05/04/2017 2011
1,2,4-Trichlorobenzene	50	50		1	99	70-130	05/04/2017 2011
1,1,2-Trichloroethane	50	47		1	95	70-130	05/04/2017 2011
1,1,1-Trichloroethane	50	48		1	97	70-130	05/04/2017 2011
Trichloroethene	50	47		1	93	70-130	05/04/2017 2011
Trichlorofluoromethane	50	60		1	120	60-140	05/04/2017 2011
1,2,3-Trichloropropane	50	50		1	101	70-130	05/04/2017 2011
Vinyl acetate	50	57		1	114	60-140	05/04/2017 2011
Vinyl chloride	50	57		1	114	60-140	05/04/2017 2011
Xylenes (total)	100	99		1	99	70-130	05/04/2017 2011

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		99	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41374-001
Batch: 41374
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Tetrachloroethene	ND		1	0.50	ug/L	05/05/2017 2115

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		104	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41374-002
Batch: 41374
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Tetrachloroethene	50	56		1	112	70-130	05/05/2017 2016

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MS

Sample ID: SE01031-008MS
Batch: 41374
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
Tetrachloroethene	150	250	460		5	122	70-130	05/06/2017 0058

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MSD

Sample ID: SE01031-008MD
Batch: 41374
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
Tetrachloroethene	150	250	460		5	123	0.34	70-130	20	05/06/2017 0120

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		99	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		106	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41441-001
Batch: 41441
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acrolein	ND		1	20	ug/L	05/08/2017 1013
Acrylonitrile	ND		1	20	ug/L	05/08/2017 1013
Benzene	ND		1	1.0	ug/L	05/08/2017 1013
Bromodichloromethane	ND		1	1.0	ug/L	05/08/2017 1013
Bromoform	ND		1	1.0	ug/L	05/08/2017 1013
Bromomethane (Methyl bromide)	ND		1	2.0	ug/L	05/08/2017 1013
Carbon tetrachloride	ND		1	1.0	ug/L	05/08/2017 1013
Chlorobenzene	ND		1	1.0	ug/L	05/08/2017 1013
Chloroethane	ND		1	2.0	ug/L	05/08/2017 1013
Chloroform	ND		1	1.0	ug/L	05/08/2017 1013
Chloromethane (Methyl chloride)	ND		1	1.0	ug/L	05/08/2017 1013
Dibromochloromethane	ND		1	1.0	ug/L	05/08/2017 1013
1,2-Dichlorobenzene	ND		1	1.0	ug/L	05/08/2017 1013
1,3-Dichlorobenzene	ND		1	1.0	ug/L	05/08/2017 1013
1,4-Dichlorobenzene	ND		1	1.0	ug/L	05/08/2017 1013
Dichlorodifluoromethane	ND		1	2.0	ug/L	05/08/2017 1013
1,2-Dichloroethane	ND		1	1.0	ug/L	05/08/2017 1013
1,1-Dichloroethane	ND		1	1.0	ug/L	05/08/2017 1013
trans-1,2-Dichloroethene	ND		1	1.0	ug/L	05/08/2017 1013
cis-1,2-Dichloroethene	ND		1	1.0	ug/L	05/08/2017 1013
1,1-Dichloroethene	ND		1	1.0	ug/L	05/08/2017 1013
1,2-Dichloropropane	ND		1	1.0	ug/L	05/08/2017 1013
trans-1,3-Dichloropropene	ND		1	1.0	ug/L	05/08/2017 1013
cis-1,3-Dichloropropene	ND		1	1.0	ug/L	05/08/2017 1013
Ethylbenzene	ND		1	1.0	ug/L	05/08/2017 1013
Methylene chloride	ND		1	1.0	ug/L	05/08/2017 1013
1,1,2,2-Tetrachloroethane	ND		1	1.0	ug/L	05/08/2017 1013
Tetrachloroethene	ND		1	1.0	ug/L	05/08/2017 1013
Toluene	ND		1	1.0	ug/L	05/08/2017 1013
1,1,1-Trichloroethane	ND		1	1.0	ug/L	05/08/2017 1013
1,1,2-Trichloroethane	ND		1	1.0	ug/L	05/08/2017 1013
Trichloroethene	ND		1	1.0	ug/L	05/08/2017 1013
Trichlorofluoromethane	ND		1	1.0	ug/L	05/08/2017 1013
Vinyl chloride	ND		1	1.0	ug/L	05/08/2017 1013

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41441-002
Batch: 41441
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	580		1	115	60-140	05/08/2017 0918
Acrylonitrile	100	120		1	125	70-130	05/08/2017 0918
Benzene	50	53		1	106	70-130	05/08/2017 0918
Bromodichloromethane	50	54		1	108	70-130	05/08/2017 0918
Bromoform	50	51		1	102	70-130	05/08/2017 0918
Bromomethane (Methyl bromide)	50	54		1	108	60-140	05/08/2017 0918
Carbon tetrachloride	50	49		1	97	70-130	05/08/2017 0918
Chlorobenzene	50	54		1	109	70-130	05/08/2017 0918
Chloroethane	50	58		1	116	60-140	05/08/2017 0918
Chloroform	50	56		1	112	70-130	05/08/2017 0918
Chloromethane (Methyl chloride)	50	41		1	82	60-140	05/08/2017 0918
Dibromochloromethane	50	53		1	105	70-130	05/08/2017 0918
1,2-Dichlorobenzene	50	52		1	104	70-130	05/08/2017 0918
1,3-Dichlorobenzene	50	53		1	107	70-130	05/08/2017 0918
1,4-Dichlorobenzene	50	52		1	104	70-130	05/08/2017 0918
Dichlorodifluoromethane	50	62		1	123	60-140	05/08/2017 0918
1,2-Dichloroethane	50	52		1	104	70-130	05/08/2017 0918
1,1-Dichloroethane	50	58		1	116	70-130	05/08/2017 0918
trans-1,2-Dichloroethene	50	58		1	116	70-130	05/08/2017 0918
cis-1,2-Dichloroethene	50	56		1	112	70-130	05/08/2017 0918
1,1-Dichloroethene	50	53		1	106	70-130	05/08/2017 0918
1,2-Dichloropropane	50	56		1	112	70-130	05/08/2017 0918
trans-1,3-Dichloropropene	50	54		1	107	70-130	05/08/2017 0918
cis-1,3-Dichloropropene	50	55		1	109	70-130	05/08/2017 0918
Ethylbenzene	50	53		1	107	70-130	05/08/2017 0918
Methylene chloride	50	52		1	105	70-130	05/08/2017 0918
1,1,2,2-Tetrachloroethane	50	53		1	106	60-140	05/08/2017 0918
Tetrachloroethene	50	55		1	110	70-130	05/08/2017 0918
Toluene	50	57		1	113	70-130	05/08/2017 0918
1,1,1-Trichloroethane	50	50		1	101	70-130	05/08/2017 0918
1,1,2-Trichloroethane	50	50		1	101	70-130	05/08/2017 0918
Trichloroethene	50	49		1	97	70-130	05/08/2017 0918
Trichlorofluoromethane	50	57		1	115	70-130	05/08/2017 0918
Vinyl chloride	50	50		1	100	70-130	05/08/2017 0918

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		102	70-130
1,2-Dichloroethane-d4		98	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MB

Sample ID: SQ40990-001
Batch: 40990
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/02/2017 1727

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	05/04/2017 1544
Barium	ND		1	0.025	mg/L	05/04/2017 1544
Cadmium	ND		1	0.0050	mg/L	05/04/2017 1544
Chromium	ND		1	0.010	mg/L	05/04/2017 1544
Lead	ND		1	0.010	mg/L	05/04/2017 1544
Selenium	ND		1	0.020	mg/L	05/04/2017 1544
Silver	ND		1	0.010	mg/L	05/04/2017 1544

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - LCS

Sample ID: SQ40990-002
Batch: 40990
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/02/2017 1727

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.43		1	107	80-120	05/04/2017 1550
Barium	2.0	2.1		1	104	80-120	05/04/2017 1550
Cadmium	0.40	0.40		1	100	80-120	05/04/2017 1550
Chromium	2.0	1.9		1	96	80-120	05/04/2017 1550
Lead	0.40	0.42		1	105	80-120	05/04/2017 1550
Selenium	0.40	0.44		1	111	80-120	05/04/2017 1550
Silver	0.40	0.40		1	101	80-120	05/04/2017 1550

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

RCRA Metals - MS

Sample ID: SE01031-001MS
Batch: 40990
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/02/2017 1727

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.43		1	108	75-125	05/04/2017 1640
Barium	0.069	2.0	2.2		1	108	75-125	05/04/2017 1640
Cadmium	ND	0.40	0.41		1	102	75-125	05/04/2017 1640
Chromium	ND	2.0	1.9		1	96	75-125	05/04/2017 1640
Lead	ND	0.40	0.44		1	111	75-125	05/04/2017 1640
Selenium	ND	0.40	0.43		1	109	75-125	05/04/2017 1640
Silver	ND	0.40	0.41		1	103	75-125	05/04/2017 1640

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MSD

Sample ID: SE01031-001MD
Batch: 40990
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/02/2017 1727

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.43		1	107	1.5	75-125	20	05/04/2017 1645
Barium	0.069	2.0	2.2		1	107	0.65	75-125	20	05/04/2017 1645
Cadmium	ND	0.40	0.40		1	101	0.84	75-125	20	05/04/2017 1645
Chromium	ND	2.0	1.9		1	94	2.4	75-125	20	05/04/2017 1645
Lead	ND	0.40	0.43		1	108	2.2	75-125	20	05/04/2017 1645
Selenium	ND	0.40	0.43		1	108	1.0	75-125	20	05/04/2017 1645
Silver	ND	0.40	0.42		1	105	1.7	75-125	20	05/04/2017 1645

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MB

Sample ID: SQ40929-001
Batch: 40929
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 05/02/2017 901

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.00010	mg/L	05/02/2017 1121

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - LCS

Sample ID: SQ40929-002
Batch: 40929
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 05/02/2017 901

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	108	80-120	05/02/2017 1123

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

Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number SE01031

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-828-0577	Quote No.: 15144
Address: 14 North Bolyan Ave	Sampler's Signature: x	Waybill No.	Page: of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: PATRICK BROWNSON		
Project Name: Pinewood Water Table Program			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	ZnOAc kit	NaOH-Zn	Priority Pollutant VOC + c-1,2-DCE	RCRA Metals	App IX VOCs
WT-026	05/01/17	1310	G	X					1	3				✓	✓	
WT-008	05/01/17	1405	G	X					1	3				✓	✓	
OCS-004	5/1/17	1250	G	X						3				✓		
WT-038	5/1/17	1545	G	X						3				✓		
WT-037	5/1/17	1555	G	X						3				✓		
OCS-001	5/1/17	1443	G	X						3				✓		
WT-036	5/1/17	1600	G	X						3				✓		
FD #4	5/1/17	1530	G	X						3						✓
FD #2	5/1/17	1540	G	X						3						✓
FIELD BLANK	5/1/17	1605	G	X						3				✓		

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	5/1/17	1630	1. Received by	5/1/17	1630
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	5/1/17	1750	3. Laboratory Received by	5.1.17	1750

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 1.7 °C

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

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106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY

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
www.shealylab.com

Number SE01031

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-825-0577	Quote No.: 15144
Address: 14 North Bolyen Ave	Sampler's Signature: x	Waybill No.	Page: 2 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: PATRICK BROWNSON		
Project Name: Pinewood Water Table Program			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaOH+ZN	Priority Pollutant VOC + c-1,2-DCE	RCRA Metals
				X					1	3					
TRIP BLANK			G	X						2				✓	

Possible Hazard Identification
[X] Non-Hazard [ ] Flammable [ ] Skin Irritant
[ ] Poison [ ] Unknown

Sample Disposal
[ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT)
[X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	05/01/17	1630	1. Received by	5/1/17	1630
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	5/1/17	1750	3. Laboratory Received by: S Elliott	5-1-17	1750

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 1.7 °C

Document Number: F-AD-104 Effective Date 08-10-10

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: SBE 5-1-17 Lot #: SE01031

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: 17-6619 Cl strip ID:_____

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

11.7 / 11.7 °C ___/___/___°C ___/___/___°C ___/___/___°C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

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? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)? _____
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) 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 ☐	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 ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	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?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

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 _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) 008(1), 009(1) were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: SBE Verified by:_____ Date: 5-1-17

Comments: _____

4th

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-026 Sample Time 1310

Field ~~Personnel~~ PB CE Sample Date 5/1/17

Weather Conditions CLOUDY Air Temperature (°F) 75

Total Depth (ft.) 15.0 (from well log) CWC; 4.83

Depth to Static Water Surface (ft.) 10.17

Calculated Well Volume (1 casing volume) (gal.) 3

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 15

Measured Flow Rate (gal/min) HAND

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4 (7) 10) (circle two) Actual Reading 4.00/6.87 pH

pH Calibration During Sampling (4 (7) 10) (circle two) Actual Reading 4.00/6.87 pH 5/1/17 Date

Purge Start Time	1300	Purge Stop Time	1310
Purge Date	5/1/17	Total Gallons Purged	9
Purge Method	HAND		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	3	6	9		
Time	-	1300	1305	1307	1310		
Temperature	°C	20.4	20.2	20.1	19.7		
pH	Std. units	5.96	6.09	6.10	6.12		
Conductivity	µmhos/cm	254	256	270	279		
Turbidity	NTUs	—	—	—	12.2		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒ (10% of samples verified per SAP)		

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-008 Sample Time 1405

Field Personnel PB CE Sample Date 5/1/17

Weather Conditions OVERCAST Air Temperature (°F) 80

Total Depth (ft.) 23.0 (from well log) LWC: 7.29

Depth to Static Water Surface (ft.) 15.71

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) HAND

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4, (7), 10) (circle two) Actual Reading 4.00/~~6.87~~ pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1350	Purge Stop Time	1405
Purge Date	5/1/17	Total Gallons Purged	6
Purge Method	HAND		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	2	4	6		
Time	-	1350	1358	1401	1405		
Temperature	°C	20.9	20.7	20.0	20.2		
pH	Std. units	5.59	5.60	5.62	5.57		
Conductivity	µmhos/cm	134.0	136.1	131.0	137.5		
Turbidity	NTUs	—	—	—	26.2		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒ (10% of samples verified per SAP)		

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS-004 Sample Time 1250

Field Personnel PB CE Sample Date 5/1/17

Weather Conditions CLOUDY Air Temperature (°F) 75

Total Depth (ft.) 37.41 (from well log) LWC: 19.22

Depth to Static Water Surface (ft.) 18.59

Calculated Well Volume (1 casing volume) (gal.) 3

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 15

Measured Flow Rate (gal/min) HAND

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4 7 10) (circle two) Actual Reading 4.00/6.87 pH

pH Calibration During Sampling (4 7 10) (circle two) Actual Reading 4.00/6.87 pH 5/1/17 Date

Purge Start Time	1225	Purge Stop Time	1250
Purge Date	5/1/17	Total Gallons Purged	9
Purge Method	HAND		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	3	6	9		
Time	-	1225	1235	1245	1250		
Temperature	°C	20.4	20.0	20.2	20.3		
pH	Std. units	5.85	5.91	5.94	5.74		
Conductivity	µmhos/cm	109.0	101.6	92.7	95.3		
Turbidity	NTUs	—	—	—	13.8		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

2 11

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-038 Sample Time 1545

Field Personnel PB CF Sample Date 5/1/17

Weather Conditions CLOUDY Air Temperature (°F) 75

Total Depth (ft.) 22.37 (from well log) LWC: 9.72

Depth to Static Water Surface (ft.) 12.65

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) HAND

Calculated Pumping Time (length of time in minutes) \

Actual Pumping Time (length of time in minutes)

Check-back Time

Recovery Time (if needed)

pH Calibration During Purging (4 (7) 10) (circle two) Actual Reading 4.00/6.87 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1320	Purge Stop Time	1327	
Purge Date	5/1/17	Total Gallons Purged	3 (DRY)	
Purge Method	HAND			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	2		@SAMPLE		
Time	-	1320			1545		
Temperature	°C	20.6			21.5		
pH	Std. units	6.59			5.85		
Conductivity	µmhos/cm	242			278		
Turbidity	NTUs	—			38.3		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☒	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-037 Sample Time 1555

Field Personnel PB CE Sample Date 5/1/17

Weather Conditions CLOUDY Air Temperature (°F) 75

Total Depth (ft.) 22.6 (from well log) LWC: 11.07

Depth to Static Water Surface (ft.) 11.53

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) HAND

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.00/6.87 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1330	Purge Stop Time	1346
Purge Date	5/1/17	Total Gallons Purged	6
Purge Method	HAND		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	Gal.	—	2	4	6	@SAMPLE	
Time	-	1330	1337	1342	1346	1555	
Temperature	°C	20.3	18.7	18.9	19.2	21.0	
pH	Std. units	5.04	5.01	4.99	5.01	5.15	
Conductivity	µmhos/cm	76.6	151.2	182	191	207	
Turbidity	NTUs	—	—	—	632*	21.7	

Additional Notes:

*- Turbidity too high -- will sample later

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☐ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☐ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☒ No ☒	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS-001 Sample Time 1443

Field Personnel PB CF Sample Date 5/1/17

Weather Conditions CLOUDY Air Temperature (°F) 75

Total Depth (ft.) 58.70 (from well log) LWC: 27.24

Depth to Static Water Surface (ft.) 31.46

Calculated Well Volume (1 casing volume) (gal.) 5

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 25

Measured Flow Rate (gal/min) HAND NA

Calculated Pumping Time (length of time in minutes) NA

Actual Pumping Time (length of time in minutes) NA

Check-back Time NA

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading _____ pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1415	Purge Stop Time	1443
Purge Date	5/1/17	Total Gallons Purged	15
Purge Method	HAND Bailer		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	~	5	10	15		
Time	-	1415	1425	1435	1443		
Temperature	°C	21.8	21.8	22.1	22.4		
pH	Std. units	5.78	6.09	5.81	5.88		
Conductivity	µmhos/cm	133.6	143.5	153.0	155.6		
Turbidity	NTUs	—	—	—	3.71		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-036 Sample Time 1600

Field Personnel PB CE Sample Date 5/1/17

Weather Conditions SUNNY, CLOUDS. Air Temperature (°F) 80

Total Depth (ft.) 27.70 (from well log) LWC: 9.09

Depth to Static Water Surface (ft.) 18.61

Calculated Well Volume (1 casing volume) (gal.) 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 10

Measured Flow Rate (gal/min) NA

Calculated Pumping Time (length of time in minutes) NA

Actual Pumping Time (length of time in minutes) NA

Check-back Time NA

Recovery Time (if needed) NA

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading 4.00/6.87 pH

pH Calibration During Sampling (4, 7, 10) (circle two) Actual Reading _____ pH _____ Date

Purge Start Time	1445	Purge Stop Time	1500
Purge Date	5/1/17	Total Gallons Purged	6
Purge Method	HAND BAILER		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	2	4	6	@SAMPLE	
Time	-	1445	1450	1455	1500	1600	
Temperature	°C	21.4	22.0	21.7	20.6	23.1	
pH	Std. units	4.46	4.33	4.32	4.28	4.45	
Conductivity	µmhos/cm	150.6	145.0	141.4	140.1	149.0	
Turbidity	NTUs	—	—	—	71000 *	47.5	

Additional Notes:

* Too turbid. Sample later.

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☐ No ☑	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank → @1605	Yes ☒ No ☑
Metals verified (<2 pH)	Yes ☐ No ☑	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID FD #4 Sample Time 1530

Field Personnel PBCE Sample Date 5/1/17

Weather Conditions SUNNY Air Temperature (°F) 80

Total Depth (ft.) N/A (from well log)

Depth to Static Water Surface (ft.) N/A

Calculated Well Volume (1 casing volume) (gal.) N/A

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) N/A

Measured Flow Rate (gal/min) N/A.

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4) 7 10) (circle two) Actual Reading 4.00/6.87 pH

pH Calibration During Sampling (4) 7) 10) (circle two) Actual Reading 4.00/6.87 pH 5/1/17 Date

Purge Start Time		Purge Stop Time	1530
Purge Date		Total Gallons Purged	N/A
Purge Method			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	GRAB SAMPLE					
Time	-	1530					
Temperature	°C	24.2					
pH	Std. units	4.56					
Conductivity	µmhos/cm	317					
Turbidity	NTUs	9.78					

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☐ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☐	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☐ No ☐	(10% of samples verified per SAP)	

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID FD #2 Sample Time 1540 ~~1535~~

Field Personnel PB CE Sample Date 5/1/17

Weather Conditions CLOUDY Air Temperature (°F) 80

Total Depth (ft.) N/A (from well log)

Depth to Static Water Surface (ft.) N/A

Calculated Well Volume (1 casing volume) (gal.) N/A

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) N/A

Measured Flow Rate (gal/min) N/A

Calculated Pumping Time (length of time in minutes) N/A

Actual Pumping Time (length of time in minutes) N/A

Check-back Time N/A

Recovery Time (if needed) N/A

pH Calibration During Purging (4, 7, 10) (circle two) Actual Reading _____ pH

pH Calibration During Sampling (4) (7) 10) (circle two) Actual Reading ~~4.00~~ ~~6.87~~ pH 5/1/17 Date

Purge Start Time		Purge Stop Time	~~1535~~ 1540
Purge Date		Total Gallons Purged	N/A
Purge Method			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	GRAB SAMPLE					
Time	-	1540					
Temperature	°C	22.7					
pH	Std. units	4.65					
Conductivity	µmhos/cm	328					
Turbidity	NTUs	4.42					

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☐ No ☒	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF Water Table Program (WTP)

Lot Number: SE02077
Date Completed: 05/08/2017

Kelly M. Nance
Project Manager

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

Case Narrative
Smith Gardner, Inc.
Lot Number: SE02077

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.

Sample Summary
Smith Gardner, Inc.
Lot Number: SE02077

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	WT027	Aqueous	05/02/2017 1220	05/02/2017
002	WT030	Aqueous	05/02/2017 1230	05/02/2017
003	WT032	Aqueous	05/02/2017 1205	05/02/2017
004	POND A	Aqueous	05/02/2017 1105	05/02/2017
005	OCS002	Aqueous	05/02/2017 0949	05/02/2017
006	OCS005	Aqueous	05/02/2017 1155	05/02/2017
007	FIELD BLANK	Aqueous	05/02/2017 1210	05/02/2017

(7 samples)

Executive Summary

Smith Gardner, Inc.

Lot Number: SE02077

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	WT027	Aqueous	Barium	6010D	0.048		mg/L	7
002	WT030	Aqueous	Barium	6010D	0.028		mg/L	10
003	WT032	Aqueous	Barium	6010D	0.029		mg/L	13
004	POND A	Aqueous	Barium	6010D	0.053		mg/L	16
005	OCS002	Aqueous	cis-1,2-Dichloroethene	8260B	1.7		ug/L	18
005	OCS002	Aqueous	Tetrachloroethene	8260B	54		ug/L	18
005	OCS002	Aqueous	Trichloroethene	8260B	8.7		ug/L	18
007	FIELD BLANK	Aqueous	Chloroform	8260B	3.3		ug/L	21

(8 detections)

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-001
Description: WT027
Matrix: Aqueous
Date Sampled: 05/02/2017 1220
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/02/2017 1220	CAE		
1		(Specific Con) 120.1	1	05/02/2017 1220	CAE		
1		(Temperature) SM 2550B-2010	1	05/02/2017 1220	CAE		
1		(Turbidity -) 180.1	1	05/02/2017 1220	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	6.01			su	1
Specific Conductance - Field		120.1	434		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	19.4			° C	1
Turbidity - Field		180.1	15		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-001
Description: WT027
Matrix: Aqueous
Date Sampled: 05/02/2017 1220
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0208	ECP		41281

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	70-130
Bromofluorobenzene		95	70-130
Toluene-d8		95	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 PQL
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"

RCRA Metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-001
Description: WT027
Matrix: Aqueous
Date Sampled: 05/02/2017 1220
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	05/03/2017 2145	SLS	05/03/2017 1650	41094
1	3005A	6010D	1	05/05/2017 2011	CJZ	05/05/2017 0914	41291

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.048		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Selenium	7782-49-2	6010D	ND		0.020	mg/L	1
Silver	7440-22-4	6010D	ND		0.010	mg/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-002
Description: WT030
Matrix: Aqueous
Date Sampled: 05/02/2017 1230
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/02/2017 1230	CAE		
1		(Specific Con) 120.1	1	05/02/2017 1230	CAE		
1		(Temperature) SM 2550B-2010	1	05/02/2017 1230	CAE		
1		(Turbidity -) 180.1	1	05/02/2017 1230	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.22			su	1
Specific Conductance - Field		120.1	808		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	19.6			° C	1
Turbidity - Field		180.1	6.2		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-002
Description: WT030
Matrix: Aqueous
Date Sampled: 05/02/2017 1230
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0231	ECP		41281

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		92	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 PQL
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"

RCRA Metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-002
Description: WT030
Matrix: Aqueous
Date Sampled: 05/02/2017 1230
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	05/03/2017 2147	SLS	05/03/2017 1650	41094
1	3005A	6010D	1	05/05/2017 2049	CJZ	05/05/2017 0914	41291

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.028		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Selenium	7782-49-2	6010D	ND		0.020	mg/L	1
Silver	7440-22-4	6010D	ND		0.010	mg/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-003
Description: WT032
Matrix: Aqueous
Date Sampled: 05/02/2017 1205
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/02/2017 1205	CAE		
1		(Specific Con) 120.1	1	05/02/2017 1205	CAE		
1		(Temperature) SM 2550B-2010	1	05/02/2017 1205	CAE		
1		(Turbidity -) 180.1	1	05/02/2017 1205	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	4.87			su	1
Specific Conductance - Field		120.1	1160		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.4			° C	1
Turbidity - Field		180.1	2.6		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-003
Description: WT032
Matrix: Aqueous
Date Sampled: 05/02/2017 1205
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0255	ECP		41281

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		93	70-130
Toluene-d8		93	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 PQL
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"

RCRA Metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-003
Description: WT032
Matrix: Aqueous
Date Sampled: 05/02/2017 1205
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	05/03/2017 2149	SLS	05/03/2017 1650	41094
1	3005A	6010D	1	05/05/2017 2055	CJZ	05/05/2017 0914	41291

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.029		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Selenium	7782-49-2	6010D	ND		0.020	mg/L	1
Silver	7440-22-4	6010D	ND		0.010	mg/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-004
Description: POND A
Matrix: Aqueous
Date Sampled: 05/02/2017 1105
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/02/2017 1105	CAE		
1		(Specific Con) 120.1	1	05/02/2017 1105	CAE		
1		(Temperature) SM 2550B-2010	1	05/02/2017 1105	CAE		
1		(Turbidity -) 180.1	1	05/02/2017 1105	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	6.11			su	1
Specific Conductance - Field		120.1	395		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	24.4			° C	1
Turbidity - Field		180.1	27		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-004
Description: POND A
Matrix: Aqueous
Date Sampled: 05/02/2017 1105
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0318	ECP		41281

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		93	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 PQL
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"

RCRA Metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-004
Description: POND A
Matrix: Aqueous
Date Sampled: 05/02/2017 1105
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	7470A	7470A	1	05/03/2017 2151	SLS	05/03/2017 1650	41094
1	3005A	6010D	1	05/05/2017 2100	CJZ	05/05/2017 0914	41291

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	6010D	ND		0.015	mg/L	1
Barium	7440-39-3	6010D	0.053		0.025	mg/L	1
Cadmium	7440-43-9	6010D	ND		0.0050	mg/L	1
Chromium	7440-47-3	6010D	ND		0.010	mg/L	1
Lead	7439-92-1	6010D	ND		0.010	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	mg/L	1
Selenium	7782-49-2	6010D	ND		0.020	mg/L	1
Silver	7440-22-4	6010D	ND		0.010	mg/L	1

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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-005
Description: OCS002
Matrix: Aqueous
Date Sampled: 05/02/2017 0949
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/02/2017 0949	CAE		
1		(Specific Con) 120.1	1	05/02/2017 0949	CAE		
1		(Temperature) SM 2550B-2010	1	05/02/2017 0949	CAE		
1		(Turbidity -) 180.1	1	05/02/2017 0949	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	5.99			su	1
Specific Conductance - Field		120.1	234		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	20.6			° C	1
Turbidity - Field		180.1	6.6		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-005
Description: OCS002
Matrix: Aqueous
Date Sampled: 05/02/2017 0949
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0341	ECP		41281

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	1.7		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	54		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	8.7		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		93	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 PQL
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"

Inorganic non-metals

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-006
Description: OCS005
Matrix: Aqueous
Date Sampled: 05/02/2017 1155
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		(pH - Field) SM 4500-H B-2011	1	05/02/2017 1055	CAE		
1		(Specific Con) 120.1	1	05/02/2017 1055	CAE		
1		(Temperature) SM 2550B-2010	1	05/02/2017 1055	CAE		
1		(Turbidity -) 180.1	1	05/02/2017 1055	CAE		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
pH - Field		SM 4500-H B	6.32			su	1
Specific Conductance - Field		120.1	157		1.00	umhos/cm	1
Temperature - Field		SM 2550B-20	21.3			° C	1
Turbidity - Field		180.1	11		1.0	NTU	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-006
Description: OCS005
Matrix: Aqueous
Date Sampled: 05/02/2017 1155
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/05/2017 0405	ECP		41281

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	ND		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		94	70-130
Toluene-d8		94	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE02077-007
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 05/02/2017 1210
Date Received: 05/02/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/04/2017 1147	JM1		41207

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acrolein	107-02-8	8260B	ND		20	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		20	ug/L	1
Benzene	71-43-2	8260B	ND		1.0	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		1.0	ug/L	1
Bromoform	75-25-2	8260B	ND		1.0	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		2.0	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		1.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		1.0	ug/L	1
Chloroethane	75-00-3	8260B	ND		2.0	ug/L	1
Chloroform	67-66-3	8260B	3.3		1.0	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1.0	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		1.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1.0	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1.0	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1.0	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		2.0	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		1.0	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		1.0	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		1.0	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1.0	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1.0	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		1.0	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1.0	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1.0	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		1.0	ug/L	1
Methylene chloride	75-09-2	8260B	ND		1.0	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1.0	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		1.0	ug/L	1
Toluene	108-88-3	8260B	ND		1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1.0	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1.0	ug/L	1
Trichloroethene	79-01-6	8260B	ND		1.0	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		1.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		1.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	70-130
Bromofluorobenzene		97	70-130
Toluene-d8		112	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 PQL
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"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41207-001
Batch: 41207
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acrolein	ND		1	20	ug/L	05/04/2017 1050
Acrylonitrile	ND		1	20	ug/L	05/04/2017 1050
Benzene	ND		1	1.0	ug/L	05/04/2017 1050
Bromodichloromethane	ND		1	1.0	ug/L	05/04/2017 1050
Bromoform	ND		1	1.0	ug/L	05/04/2017 1050
Bromomethane (Methyl bromide)	ND		1	2.0	ug/L	05/04/2017 1050
Carbon tetrachloride	ND		1	1.0	ug/L	05/04/2017 1050
Chlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
Chloroethane	ND		1	2.0	ug/L	05/04/2017 1050
Chloroform	ND		1	1.0	ug/L	05/04/2017 1050
Chloromethane (Methyl chloride)	ND		1	1.0	ug/L	05/04/2017 1050
Dibromochloromethane	ND		1	1.0	ug/L	05/04/2017 1050
1,4-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
1,3-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
1,2-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 1050
Dichlorodifluoromethane	ND		1	2.0	ug/L	05/04/2017 1050
1,2-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
1,1-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
trans-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
cis-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
1,1-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
1,2-Dichloropropane	ND		1	1.0	ug/L	05/04/2017 1050
trans-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 1050
cis-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 1050
Ethylbenzene	ND		1	1.0	ug/L	05/04/2017 1050
Methylene chloride	ND		1	1.0	ug/L	05/04/2017 1050
1,1,2,2-Tetrachloroethane	ND		1	1.0	ug/L	05/04/2017 1050
Tetrachloroethene	ND		1	1.0	ug/L	05/04/2017 1050
Toluene	ND		1	1.0	ug/L	05/04/2017 1050
1,1,2-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
1,1,1-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 1050
Trichloroethene	ND		1	1.0	ug/L	05/04/2017 1050
Trichlorofluoromethane	ND		1	1.0	ug/L	05/04/2017 1050
Vinyl chloride	ND		1	1.0	ug/L	05/04/2017 1050

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		99	70-130
1,2-Dichloroethane-d4		102	70-130
Toluene-d8		113	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41207-002
Batch: 41207
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	500	460		1	93	60-140	05/04/2017 0958
Acrylonitrile	100	120		1	120	70-130	05/04/2017 0958
Benzene	50	48		1	95	70-130	05/04/2017 0958
Bromodichloromethane	50	44		1	88	70-130	05/04/2017 0958
Bromoform	50	50		1	100	70-130	05/04/2017 0958
Bromomethane (Methyl bromide)	50	55		1	111	60-140	05/04/2017 0958
Carbon tetrachloride	50	50		1	100	70-130	05/04/2017 0958
Chlorobenzene	50	48		1	95	70-130	05/04/2017 0958
Chloroethane	50	57		1	114	60-140	05/04/2017 0958
Chloroform	50	48		1	96	70-130	05/04/2017 0958
Chloromethane (Methyl chloride)	50	55		1	109	60-140	05/04/2017 0958
Dibromochloromethane	50	50		1	100	70-130	05/04/2017 0958
1,4-Dichlorobenzene	50	47		1	94	70-130	05/04/2017 0958
1,3-Dichlorobenzene	50	47		1	94	70-130	05/04/2017 0958
1,2-Dichlorobenzene	50	47		1	95	70-130	05/04/2017 0958
Dichlorodifluoromethane	50	53		1	107	60-140	05/04/2017 0958
1,2-Dichloroethane	50	49		1	97	70-130	05/04/2017 0958
1,1-Dichloroethane	50	46		1	92	70-130	05/04/2017 0958
trans-1,2-Dichloroethene	50	49		1	98	70-130	05/04/2017 0958
cis-1,2-Dichloroethene	50	44		1	88	70-130	05/04/2017 0958
1,1-Dichloroethene	50	47		1	95	70-130	05/04/2017 0958
1,2-Dichloropropane	50	48		1	95	70-130	05/04/2017 0958
trans-1,3-Dichloropropene	50	46		1	92	70-130	05/04/2017 0958
cis-1,3-Dichloropropene	50	48		1	95	70-130	05/04/2017 0958
Ethylbenzene	50	48		1	96	70-130	05/04/2017 0958
Methylene chloride	50	45		1	90	70-130	05/04/2017 0958
1,1,2,2-Tetrachloroethane	50	39		1	79	60-140	05/04/2017 0958
Tetrachloroethene	50	47		1	95	70-130	05/04/2017 0958
Toluene	50	48		1	97	70-130	05/04/2017 0958
1,1,2-Trichloroethane	50	44		1	88	70-130	05/04/2017 0958
1,1,1-Trichloroethane	50	47		1	93	70-130	05/04/2017 0958
Trichloroethene	50	50		1	100	70-130	05/04/2017 0958
Trichlorofluoromethane	50	60		1	121	70-130	05/04/2017 0958
Vinyl chloride	50	57		1	113	70-130	05/04/2017 0958

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCSD

Sample ID: SQ41207-003
Batch: 41207
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Acrolein	500	490		1	99	6.1	60-140	20	05/04/2017 1432
Acrylonitrile	100	120		1	123	2.6	70-130	20	05/04/2017 1432
Benzene	50	53		1	105	9.8	70-130	20	05/04/2017 1432
Bromodichloromethane	50	47		1	94	6.4	70-130	20	05/04/2017 1432
Bromoform	50	52		1	103	2.8	70-130	20	05/04/2017 1432
Bromomethane (Methyl bromide)	50	65		1	129	15	60-140	20	05/04/2017 1432
Carbon tetrachloride	50	54		1	107	7.3	70-130	20	05/04/2017 1432
Chlorobenzene	50	51		1	102	6.9	70-130	20	05/04/2017 1432
Chloroethane	50	67		1	135	17	60-140	20	05/04/2017 1432
Chloroform	50	52		1	103	7.3	70-130	20	05/04/2017 1432
Chloromethane (Methyl chloride)	50	57		1	113	3.4	60-140	20	05/04/2017 1432
Dibromochloromethane	50	52		1	103	3.4	70-130	20	05/04/2017 1432
1,4-Dichlorobenzene	50	49		1	98	4.2	70-130	20	05/04/2017 1432
1,3-Dichlorobenzene	50	49		1	97	2.9	70-130	20	05/04/2017 1432
1,2-Dichlorobenzene	50	49		1	98	3.5	70-130	20	05/04/2017 1432
Dichlorodifluoromethane	50	45		1	90	17	60-140	20	05/04/2017 1432
1,2-Dichloroethane	50	52		1	103	6.0	70-130	20	05/04/2017 1432
1,1-Dichloroethane	50	49		1	98	6.6	70-130	20	05/04/2017 1432
trans-1,2-Dichloroethene	50	51		1	102	4.3	70-130	20	05/04/2017 1432
cis-1,2-Dichloroethene	50	46		1	93	4.9	70-130	20	05/04/2017 1432
1,1-Dichloroethene	50	48		1	96	1.6	70-130	20	05/04/2017 1432
1,2-Dichloropropane	50	52		1	104	8.6	70-130	20	05/04/2017 1432
trans-1,3-Dichloropropene	50	48		1	95	3.3	70-130	20	05/04/2017 1432
cis-1,3-Dichloropropene	50	50		1	100	4.9	70-130	20	05/04/2017 1432
Ethylbenzene	50	52		1	104	7.8	70-130	20	05/04/2017 1432
Methylene chloride	50	45		1	91	0.67	70-130	20	05/04/2017 1432
1,1,2,2-Tetrachloroethane	50	41		1	82	3.2	60-140	20	05/04/2017 1432
Tetrachloroethene	50	51		1	102	6.9	70-130	20	05/04/2017 1432
Toluene	50	52		1	104	7.6	70-130	20	05/04/2017 1432
1,1,2-Trichloroethane	50	47		1	94	6.5	70-130	20	05/04/2017 1432
1,1,1-Trichloroethane	50	50		1	100	6.9	70-130	20	05/04/2017 1432
Trichloroethene	50	53		1	106	6.1	70-130	20	05/04/2017 1432
Trichlorofluoromethane	50	60		1	121	0.018	70-130	20	05/04/2017 1432
Vinyl chloride	50	62		1	125	9.8	70-130	20	05/04/2017 1432

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		113	70-130
1,2-Dichloroethane-d4		100	70-130
Toluene-d8		108	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ41281-001
Batch: 41281
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acrolein	ND		1	20	ug/L	05/04/2017 2328
Acrylonitrile	ND		1	20	ug/L	05/04/2017 2328
Benzene	ND		1	1.0	ug/L	05/04/2017 2328
Bromodichloromethane	ND		1	1.0	ug/L	05/04/2017 2328
Bromoform	ND		1	1.0	ug/L	05/04/2017 2328
Bromomethane (Methyl bromide)	ND		1	2.0	ug/L	05/04/2017 2328
Carbon tetrachloride	ND		1	1.0	ug/L	05/04/2017 2328
Chlorobenzene	ND		1	1.0	ug/L	05/04/2017 2328
Chloroethane	ND		1	2.0	ug/L	05/04/2017 2328
Chloroform	ND		1	1.0	ug/L	05/04/2017 2328
Chloromethane (Methyl chloride)	ND		1	1.0	ug/L	05/04/2017 2328
Dibromochloromethane	ND		1	1.0	ug/L	05/04/2017 2328
1,4-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 2328
1,2-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 2328
1,3-Dichlorobenzene	ND		1	1.0	ug/L	05/04/2017 2328
Dichlorodifluoromethane	ND		1	2.0	ug/L	05/04/2017 2328
1,2-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 2328
1,1-Dichloroethane	ND		1	1.0	ug/L	05/04/2017 2328
cis-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 2328
1,1-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 2328
trans-1,2-Dichloroethene	ND		1	1.0	ug/L	05/04/2017 2328
1,2-Dichloropropane	ND		1	1.0	ug/L	05/04/2017 2328
cis-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 2328
trans-1,3-Dichloropropene	ND		1	1.0	ug/L	05/04/2017 2328
Ethylbenzene	ND		1	1.0	ug/L	05/04/2017 2328
Methylene chloride	ND		1	1.0	ug/L	05/04/2017 2328
1,1,2,2-Tetrachloroethane	ND		1	1.0	ug/L	05/04/2017 2328
Tetrachloroethene	ND		1	1.0	ug/L	05/04/2017 2328
Toluene	ND		1	1.0	ug/L	05/04/2017 2328
1,1,2-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 2328
1,1,1-Trichloroethane	ND		1	1.0	ug/L	05/04/2017 2328
Trichloroethene	ND		1	1.0	ug/L	05/04/2017 2328
Trichlorofluoromethane	ND		1	1.0	ug/L	05/04/2017 2328
Vinyl chloride	ND		1	1.0	ug/L	05/04/2017 2328

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		92	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ41281-002
Batch: 41281
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acrolein	200	160		1	79	60-140	05/04/2017 2227
Acrylonitrile	40	36		1	90	70-130	05/04/2017 2227
Benzene	20	16		1	80	70-130	05/04/2017 2227
Bromodichloromethane	20	16		1	82	70-130	05/04/2017 2227
Bromoform	20	16		1	80	70-130	05/04/2017 2227
Bromomethane (Methyl bromide)	20	23		1	116	60-140	05/04/2017 2227
Carbon tetrachloride	20	15		1	77	70-130	05/04/2017 2227
Chlorobenzene	20	16		1	81	70-130	05/04/2017 2227
Chloroethane	20	19		1	93	60-140	05/04/2017 2227
Chloroform	20	16		1	79	70-130	05/04/2017 2227
Chloromethane (Methyl chloride)	20	20		1	98	60-140	05/04/2017 2227
Dibromochloromethane	20	17		1	84	70-130	05/04/2017 2227
1,4-Dichlorobenzene	20	16		1	80	70-130	05/04/2017 2227
1,2-Dichlorobenzene	20	17		1	84	70-130	05/04/2017 2227
1,3-Dichlorobenzene	20	16		1	82	70-130	05/04/2017 2227
Dichlorodifluoromethane	20	20		1	101	60-140	05/04/2017 2227
1,2-Dichloroethane	20	17		1	83	70-130	05/04/2017 2227
1,1-Dichloroethane	20	16		1	79	70-130	05/04/2017 2227
cis-1,2-Dichloroethene	20	16		1	81	70-130	05/04/2017 2227
1,1-Dichloroethene	20	17		1	85	70-130	05/04/2017 2227
trans-1,2-Dichloroethene	20	16		1	81	70-130	05/04/2017 2227
1,2-Dichloropropane	20	17		1	83	70-130	05/04/2017 2227
cis-1,3-Dichloropropene	20	17		1	85	70-130	05/04/2017 2227
trans-1,3-Dichloropropene	20	17		1	84	70-130	05/04/2017 2227
Ethylbenzene	20	17		1	83	70-130	05/04/2017 2227
Methylene chloride	20	15		1	77	70-130	05/04/2017 2227
1,1,2,2-Tetrachloroethane	20	16		1	82	60-140	05/04/2017 2227
Tetrachloroethene	20	16		1	80	70-130	05/04/2017 2227
Toluene	20	17		1	83	70-130	05/04/2017 2227
1,1,2-Trichloroethane	20	16		1	81	70-130	05/04/2017 2227
1,1,1-Trichloroethane	20	15		1	77	70-130	05/04/2017 2227
Trichloroethene	20	16		1	80	70-130	05/04/2017 2227
Trichlorofluoromethane	20	18		1	90	70-130	05/04/2017 2227
Vinyl chloride	20	19		1	97	70-130	05/04/2017 2227

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		94	70-130
1,2-Dichloroethane-d4		87	70-130
Toluene-d8		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MB

Sample ID: SQ41291-001
Batch: 41291
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/05/2017 914

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		1	0.015	mg/L	05/05/2017 1921
Barium	ND		1	0.025	mg/L	05/05/2017 1921
Cadmium	ND		1	0.0050	mg/L	05/05/2017 1921
Chromium	ND		1	0.010	mg/L	05/05/2017 1921
Lead	ND		1	0.010	mg/L	05/05/2017 1921
Selenium	ND		1	0.020	mg/L	05/05/2017 1921
Silver	ND		1	0.010	mg/L	05/05/2017 1921

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - LCS

Sample ID: SQ41291-002
Batch: 41291
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/05/2017 914

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	0.40	0.41		1	102	80-120	05/05/2017 1926
Barium	2.0	2.0		1	100	80-120	05/05/2017 1926
Cadmium	0.40	0.40		1	99	80-120	05/05/2017 1926
Chromium	2.0	1.9		1	97	80-120	05/05/2017 1926
Lead	0.40	0.41		1	102	80-120	05/05/2017 1926
Selenium	0.40	0.43		1	108	80-120	05/05/2017 1926
Silver	0.40	0.39		1	99	80-120	05/05/2017 1926

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MS

Sample ID: SE02077-001MS
Batch: 41291
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/05/2017 914

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	ND	0.40	0.41		1	102	75-125	05/05/2017 2016
Barium	0.048	2.0	2.1		1	101	75-125	05/05/2017 2016
Cadmium	ND	0.40	0.40		1	100	75-125	05/05/2017 2016
Chromium	ND	2.0	2.0		1	98	75-125	05/05/2017 2016
Lead	ND	0.40	0.41		1	103	75-125	05/05/2017 2016
Selenium	ND	0.40	0.43		1	107	75-125	05/05/2017 2016
Silver	ND	0.40	0.40		1	100	75-125	05/05/2017 2016

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MSD

Sample ID: SE02077-001MD
Batch: 41291
Analytical Method: 6010D

Matrix: Aqueous
Prep Method: 3005A
Prep Date: 05/05/2017 914

Parameter	Sample Amount (mg/L)	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% RPD	% Rec Limit	% RPD Limit	Analysis Date
Arsenic	ND	0.40	0.42		1	105	2.8	75-125	20	05/05/2017 2022
Barium	0.048	2.0	2.1		1	103	1.4	75-125	20	05/05/2017 2022
Cadmium	ND	0.40	0.41		1	102	2.5	75-125	20	05/05/2017 2022
Chromium	ND	2.0	2.0		1	101	2.7	75-125	20	05/05/2017 2022
Lead	ND	0.40	0.43		1	107	3.8	75-125	20	05/05/2017 2022
Selenium	ND	0.40	0.44		1	111	3.2	75-125	20	05/05/2017 2022
Silver	ND	0.40	0.41		1	103	2.7	75-125	20	05/05/2017 2022

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - MB

Sample ID: SQ41094-001
Batch: 41094
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 05/03/2017 1650

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Mercury	ND		1	0.00010	mg/L	05/03/2017 2118

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

RCRA Metals - LCS

Sample ID: SQ41094-002
Batch: 41094
Analytical Method: 7470A

Matrix: Aqueous
Prep Method: 7470A
Prep Date: 05/03/2017 1650

Parameter	Spike Amount (mg/L)	Result (mg/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Mercury	0.0020	0.0022		1	110	80-120	05/03/2017 2120

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

Chain of Custody
and
Miscellaneous Documents

Shealy Environmental Services, Inc.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number SE02077

Client	Report to Contact	Telephone No. / Fax No. / Email	Quote No.
Smith Gardner	Kevin Anderson	919-828-0577	15144
Address: 14 North Bolyan Ave	Sampler's Signature: x	Waybill No.	Page: 1 of 1
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: PATRICK BROWNSON		
Project Name: Pinewood Water Table Program			
Project Number	P.O Number		

Analysis (Attach list if more space is needed)

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H2SO4	HNO3	HCL	NaOH	5035 kit	NaCH+Zn	Priority Pollutant VOC + o-1,2 DCE	RCRA Metals
WT-027	5/2/17	1220	G	X					1	3				✓	✓
WT-030	"	1230	"	"					1	3				✓	✓
WT-032		1205							1					✓	✓
POND A		1105												✓	✓
OCS-002		0949												✓	
OCS-005		1155												✓	
FIELD BLANK	↓	1210	↓	↓						↓				✓	

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	5/2/17	1250	1. Received by	5/2/17	1250
2. Relinquished by	5/2/17	1440	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Laboratory Received by	5/2/17	1440

Comments

LAB USE ONLY
Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack
Receipt Temp. 2.1 °C

Document Number: F-AD-104 TB Effective Date 08-10-10

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Shealy Environmental Services, Inc
Document Number: ME00180-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: JSS / 5/2/17 Lot #: SE02077

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: 17-619 Cl strip ID: NA

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

2.1 / 2.1 °C ____ / ____ °C ____ / ____ °C ____ / ____ °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

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? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) 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 ☐	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 ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	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?
Yes ☑	No ☐	15144	22. Was the quote number used taken from the container label?

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 _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: JSS Verified by: _____ Date: 5/2/17

Comments: _____

4"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-027 Sample Time 1220

Field Personnel PB CE Sample Date 5/2/17

Weather Conditions SUNNY Air Temperature (°F) 80

Total Depth (ft.) ~~220~~ 15.89 (from well log) LWC: ~~2.99~~ 2.9

Depth to Static Water Surface (ft.) ~~2.99~~ 12.99

Calculated Well Volume (1 casing volume) (gal.) ~~1~~ 2

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) ~~5~~ 10

Measured Flow Rate (gal/min) _____

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4 (7) 10) (circle two) Actual Reading ~~4.00~~/~~7.00~~ pH

pH Calibration During Sampling (4 (7) 10) (circle two) Actual Reading ~~4.00~~/~~7.00~~ pH 5/2/17 Date

Purge Start Time	1025	Purge Stop Time	1030
Purge Date	5/2/17	Total Gallons Purged	3 (DRY)
Purge Method	BAIL		

	Well Volume Units	Initial	1	2	(3)	4	5
Volume Purged	gal.	—	2		@SAMPLE		
Time	-	1025	1028		1220		
Temperature	°C	18.9	18.4		19.4		
pH	Std. units	5.88	6.0		6.01		
Conductivity	µmhos/cm	289.0	320.4		434.0		
Turbidity	NTUs	—	←		15.1		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☑
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☑
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☑
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☑
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

4 11

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-030 Sample Time 1230

Field Personnel PB CE Sample Date 5/2/17

Weather Conditions SUNNY Air Temperature (°F) 80

Total Depth (ft.) ~~10.5~~ 13.53 (from well log) LWC: ~~3.39~~ 6.4

Depth to Static Water Surface (ft.) 7.13

Calculated Well Volume (1 casing volume) (gal.) ~~8~~ 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) ~~15~~ 20

Measured Flow Rate (gal/min) _____

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4)(7)10) (circle two) Actual Reading 4.00/~~7.00~~ 7.00 pH

pH Calibration During Sampling (4),(7)10) (circle two) Actual Reading 4.00/~~7.00~~ pH 5/2/17 ~~Date~~

Purge Start Time	1033	Purge Stop Time	1045
Purge Date	5/2/17	Total Gallons Purged	8 (DRY)
Purge Method	BAIL		

	Well Volume Units	Initial	1	2	(3)	4	5
Volume Purged	gal.	—	4	8	@SAMPLE		
Time	-	1033	1040	1045	1230		
Temperature	°C	18.6	18.4	17.8	19.6		
pH	Std. units	5.52	5.12	5.12	5.22		
Conductivity	µmhos/cm	349.9	738	825	808.0		
Turbidity	NTUs	—	—	—	6.23		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ ~~No~~ ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☑ No ☐ (10% of samples verified per SAP)		

4 rd

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID WT-032 Sample Time 1205

Field Personnel PB CE Sample Date 5/2/17

Weather Conditions SUNNY Air Temperature (°F) 80

Total Depth (ft.) ~~25.0~~ 26.24 (from well log) LWC: ~~1.01~~ 4.25

Depth to Static Water Surface (ft.) 21.99

Calculated Well Volume (1 casing volume) (gal.) ≠ 3

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) ~~≠~~ 15

Measured Flow Rate (gal/min) _____

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4) (7) 10) (circle two) Actual Reading 4.00/7.00 pH

pH Calibration During Sampling (4) (7) 10) (circle two) Actual Reading 4.00/7.00 pH 5/2/17 Date

Purge Start Time	1015	Purge Stop Time	1020
Purge Date	5/2/17	Total Gallons Purged	4 (DRY)
Purge Method	BAILER		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	3		②SAMPLE		
Time	-	1015	1020		1205		
Temperature	°C	20.0	19.8		20.4		
pH	Std. units	4.74	4.70		4.87		
Conductivity	µmhos/cm	1192	1322		1163		
Turbidity	NTUs	—	—		2.64		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☒ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank 1210	Yes ☑ No ☐
Metals verified (<2 pH)	Yes ☑ No ☒ (10% of samples verified per SAP)		

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID POND A Sample Time 1105

Field Personnel PB CE Sample Date 5/2/17

Weather Conditions SUNNY Air Temperature (°F) 80

Total Depth (ft.) _____ (from well log)

Depth to Static Water Surface (ft.) _____

Calculated Well Volume (1 casing volume) (gal.) _____

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) _____ GRAB

Measured Flow Rate (gal/min) _____

Calculated Pumping Time (length of time in minutes) _____

Actual Pumping Time (length of time in minutes) _____

Check-back Time _____

Recovery Time (if needed) _____

pH Calibration During Purging (4,(7),10) (circle two) Actual Reading 4.00/7.00 pH

pH Calibration During Sampling (4)(7),10) (circle two) Actual Reading 4.00/7.00 pH 5/2/17 Date

Purge Start Time		Purge Stop Time	
Purge Date		Total Gallons Purged	
Purge Method			

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	@SAMPLE					
Time	-	1105					
Temperature	°C	24.4					
pH	Std. units	6.11					
Conductivity	µmhos/cm	394.6					
Turbidity	NTUs	26.6					

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☐
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☐
Metals (HNO_3)	Yes ☑ No ☐	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☐
Rinsate Blank	Yes ☐ No ☑	Field Blank	Yes ☐ No ☐
Metals verified (<2 pH)	Yes ☑ No ☐	(10% of samples verified per SAP)	

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS-002 Sample Time 0949

Field Personnel PB CE Sample Date 5/2/17

Weather Conditions SUNNY Air Temperature (°F) 70

Total Depth (ft.) 54.17 (from well log) LWC: 20.84

Depth to Static Water Surface (ft.) 33.33

Calculated Well Volume (1 casing volume) (gal.) 4

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 20

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4) (7) 10) (circle two) Actual Reading 4.00/7.00 pH

pH Calibration During Sampling (4) (7) 10) (circle two) Actual Reading 4.00/7.00 pH 5/2/17 Date

Purge Start Time	0922	Purge Stop Time	0949
Purge Date	5/2/17	Total Gallons Purged	12
Purge Method	BAILER		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	4	8	12		
Time	-	0922	0931	0940	0949		
Temperature	°C	20.5	20.4	20.0	20.6		
pH	Std. units	5.88	5.87	5.97	5.99		
Conductivity	µmhos/cm	182.4	222.1	228.1	233.6		
Turbidity	NTUs	—	—	—	6.62		

Additional Notes:

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☑ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☑ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☐ No ☒	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒ (10% of samples verified per SAP)		

2"

PINEWOOD SITE GROUNDWATER SAMPLING LOG

Well / Sample ID OCS-005 Sample Time 1155

Field Personnel PB CE Sample Date 5/2/17

Weather Conditions SUNNY Air Temperature (°F) 70

Total Depth (ft.) 53.00 (from well log) LWC: 14.88

Depth to Static Water Surface (ft.) 38.12

Calculated Well Volume (1 casing volume) (gal.) 3

Calculated Maximum Volume of Water to be Purged (5 casing volumes) (gal.) 15

Measured Flow Rate (gal/min) —

Calculated Pumping Time (length of time in minutes) —

Actual Pumping Time (length of time in minutes) —

Check-back Time —

Recovery Time (if needed) —

pH Calibration During Purging (4,7,10) (circle two) Actual Reading 4.00/7.00 pH

pH Calibration During Sampling (4,7,10) (circle two) Actual Reading 4.00/7.00 pH 5/2/17 Date

Purge Start Time	0920	Purge Stop Time	1005
Purge Date	5/2/17	Total Gallons Purged	9
Purge Method	BAIL		

	Well Volume Units	Initial	1	2	3	4	5
Volume Purged	gal.	—	3	6	9	@SAMPLE	
Time	-	0926	0940	0955	1005	1155	
Temperature	°C	26.6	20.4	20.1	20.7	21.3	
pH	Std. units	5.93	6.12	6.17	6.33	6.32	
Conductivity	µmhos/cm	166.0	168.2	166.8	160.0	157.0	
Turbidity	NTUs	—	—	—	179*	10.8	

Additional Notes:

* Too turbid + well is dry. Will resample later

PRESERVATION:

Samples Iced In Field (>45°F)	Yes ☒ No ☐	Sulfide (Zn acetate and NaOH)	Yes ☐ No ☒
VOC	Yes ☒ No ☐	Cyanide (NaOH)	Yes ☐ No ☒
Metals (HNO_3)	Yes ☐ No ☒	Dioxins / Furans (sodium thiosulfate)	Yes ☐ No ☒
Rinsate Blank	Yes ☐ No ☒	Field Blank	Yes ☐ No ☒
Metals verified (<2 pH)	Yes ☐ No ☒	(10% of samples verified per SAP)	

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF Water Table Program (WTP)

Lot Number: SE16069
Date Completed: 05/19/2017

Kelly M. Nance
Project Manager

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

Case Narrative
Smith Gardner, Inc.
Lot Number: SE16069

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.

Inorganic Metals
Sample -006 was analyzed at a dilution due to matrix interference that caused internal standards to fail. The reporting limits have been raised accordingly.

Sample Summary
Smith Gardner, Inc.
Lot Number: SE16069

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	Sec 1 FD MH1	Aqueous	05/16/2017 0827	05/16/2017
002	Sec 1 FD MH2	Aqueous	05/16/2017 0834	05/16/2017
003	Sec 1 FD MH3	Aqueous	05/16/2017 0843	05/16/2017
004	Sec 1 FD MH4	Aqueous	05/16/2017 0912	05/16/2017
005	Sec 1 FD MH5	Aqueous	05/16/2017 0857	05/16/2017
006	Pond A Per FD	Aqueous	05/16/2017 0928	05/16/2017
007	Pond A Sec 1 FD	Aqueous	05/16/2017 0936	05/16/2017
008	001	Aqueous	05/16/2017 0954	05/16/2017
009	002	Aqueous	05/16/2017 1006	05/16/2017
010	Pond B Per FD	Aqueous	05/16/2017 1017	05/16/2017
011	Field Blank	Aqueous	05/16/2017 1021	05/16/2017
012	Trip Blank	Aqueous	05/16/2017 1024	05/16/2017

(12 samples)

Executive Summary

Smith Gardner, Inc.

Lot Number: SE16069

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	Sec 1 FD MH5	Aqueous	1,4-Dioxane	8260B (SIM	7.3		ug/L	17
005	Sec 1 FD MH5	Aqueous	1,1-Dichloroethane	8260B	1.9		ug/L	18

(2 detections)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-001
Description: Sec 1 FD MH1
Matrix: Aqueous
Date Sampled: 05/16/2017 0827
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1316	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-001
Description: Sec 1 FD MH1
Matrix: Aqueous
Date Sampled: 05/16/2017 0827
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1405	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-001
Description: Sec 1 FD MH1
Matrix: Aqueous
Date Sampled: 05/16/2017 0827
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1405	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		95	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-002
Description: Sec 1 FD MH2
Matrix: Aqueous
Date Sampled: 05/16/2017 0834
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	05/17/2017 1717	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		79	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-002
Description: Sec 1 FD MH2
Matrix: Aqueous
Date Sampled: 05/16/2017 0834
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1428	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

PQL = Practical quantitation limit
B = Detected in the method blank
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H = Out of holding time
ND = Not detected at or above the PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-002
Description: Sec 1 FD MH2
Matrix: Aqueous
Date Sampled: 05/16/2017 0834
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1428	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		82	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		93	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-003
Description: Sec 1 FD MH3
Matrix: Aqueous
Date Sampled: 05/16/2017 0843
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1251	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-003
Description: Sec 1 FD MH3
Matrix: Aqueous
Date Sampled: 05/16/2017 0843
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1450	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-003
Description: Sec 1 FD MH3
Matrix: Aqueous
Date Sampled: 05/16/2017 0843
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1450	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		78	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		94	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-004
Description: Sec 1 FD MH4
Matrix: Aqueous
Date Sampled: 05/16/2017 0912
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1404	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-004
Description: Sec 1 FD MH4
Matrix: Aqueous
Date Sampled: 05/16/2017 0912
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1513	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-004
Description: Sec 1 FD MH4
Matrix: Aqueous
Date Sampled: 05/16/2017 0912
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1513	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		72	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		95	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-005
Description: Sec 1 FD MH5
Matrix: Aqueous
Date Sampled: 05/16/2017 0857
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1428	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	7.3		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-005
Description: Sec 1 FD MH5
Matrix: Aqueous
Date Sampled: 05/16/2017 0857
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/18/2017 1756	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	2
Acetonitrile	75-05-8	8260B	ND		20	ug/L	2
Acrolein	107-02-8	8260B	ND		5.0	ug/L	2
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	2
Benzene	71-43-2	8260B	ND		0.50	ug/L	2
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	2
Bromoform	75-25-2	8260B	ND		0.50	ug/L	2
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	2
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	2
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	2
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	2
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	2
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	2
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	2
Chloroform	67-66-3	8260B	ND		0.50	ug/L	2
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	2
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	2
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	2
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	2
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	2
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	2
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	2
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	2
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	2
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	2
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	2
1,1-Dichloroethane	75-34-3	8260B	1.9		0.50	ug/L	2
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	2
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	2
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	2
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	2
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	2
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	2
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	2
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	2
2-Hexanone	591-78-6	8260B	ND		10	ug/L	2
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	2
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	2
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	2
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	2
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	2
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	2
Styrene	100-42-5	8260B	ND		0.50	ug/L	2
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	2

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-005
Description: Sec 1 FD MH5
Matrix: Aqueous
Date Sampled: 05/16/2017 0857
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B	1	05/18/2017 1756	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	2
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	2
Toluene	108-88-3	8260B	ND		0.50	ug/L	2
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	2
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	2
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	2
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	2
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	2
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	2
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	2
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	2
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-006
Description: Pond A Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0928
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1227	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		101	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-006
Description: Pond A Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0928
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1820	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-006
Description: Pond A Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0928
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1820	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		102	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-006
Description: Pond A Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0928
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	200.2	200.8	100	05/18/2017 1404	BNW	05/17/2017 1036	42187

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		200	ug/L	2
Cadmium	7440-43-9	200.8	ND		50	ug/L	2
Lead	7439-92-1	200.8	ND		100	ug/L	2
Silver	7440-22-4	200.8	ND		100	ug/L	2

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-007
Description: Pond A Sec 1 FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0936
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1452	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		103	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-007
Description: Pond A Sec 1 FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0936
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1842	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-007
Description: Pond A Sec 1 FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0936
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1842	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		99	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-007
Description: Pond A Sec 1 FD
Matrix: Aqueous
Date Sampled: 05/16/2017 0936
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	05/18/2017 0458	BNW	05/17/2017 1036	42187

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		2.0	ug/L	1
Cadmium	7440-43-9	200.8	ND		0.50	ug/L	1
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-008
Description: 001
Matrix: Aqueous
Date Sampled: 05/16/2017 0954
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1516	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Description: 001
Date Sampled: 05/16/2017 0954
Date Received: 05/16/2017

Laboratory ID: SE16069-008
Matrix: Aqueous

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1905	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-008
Description: 001
Matrix: Aqueous
Date Sampled: 05/16/2017 0954
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1905	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		105	70-130
Bromofluorobenzene		108	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-009
Description: 002
Matrix: Aqueous
Date Sampled: 05/16/2017 1006
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1540	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-009
Description: 002
Matrix: Aqueous
Date Sampled: 05/16/2017 1006
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1928	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-009
Description: 002
Matrix: Aqueous
Date Sampled: 05/16/2017 1006
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1928	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-010
Description: Pond B Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 1017
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1604	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-010
Description: Pond B Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 1017
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1951	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-010
Description: Pond B Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 1017
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/18/2017 1951	TML		42406

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		106	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		101	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-010
Description: Pond B Per FD
Matrix: Aqueous
Date Sampled: 05/16/2017 1017
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	05/18/2017 0504	BNW	05/17/2017 1036	42187

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		2.0	ug/L	1
Cadmium	7440-43-9	200.8	ND		0.50	ug/L	1
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-011
Description: Field Blank
Matrix: Aqueous
Date Sampled: 05/16/2017 1021
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	05/17/2017 1203	ECB		42239

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-011
Description: Field Blank
Matrix: Aqueous
Date Sampled: 05/16/2017 1021
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1102	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-011
Description: Field Blank
Matrix: Aqueous
Date Sampled: 05/16/2017 1021
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1102	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		107	70-130
Toluene-d8		97	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-012
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 05/16/2017 1024
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1125	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SE16069-012
Description: Trip Blank
Matrix: Aqueous
Date Sampled: 05/16/2017 1024
Date Received: 05/16/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	05/17/2017 1125	TML		42222

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	70-130
Bromofluorobenzene		106	70-130
Toluene-d8		97	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 PQL
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"

QC Summary

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ42222-001
Batch: 42222
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/17/2017 1006
Acetonitrile	ND		1	20	ug/L	05/17/2017 1006
Acrolein	ND		1	5.0	ug/L	05/17/2017 1006
Acrylonitrile	ND		1	5.0	ug/L	05/17/2017 1006
Benzene	ND		1	0.50	ug/L	05/17/2017 1006
Bromodichloromethane	ND		1	0.50	ug/L	05/17/2017 1006
Bromoform	ND		1	0.50	ug/L	05/17/2017 1006
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/17/2017 1006
2-Butanone (MEK)	ND		1	10	ug/L	05/17/2017 1006
Carbon disulfide	ND		1	0.50	ug/L	05/17/2017 1006
Carbon tetrachloride	ND		1	0.50	ug/L	05/17/2017 1006
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/17/2017 1006
Chlorobenzene	ND		1	0.50	ug/L	05/17/2017 1006
Chloroethane	ND		1	0.50	ug/L	05/17/2017 1006
Chloroform	ND		1	0.50	ug/L	05/17/2017 1006
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/17/2017 1006
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/17/2017 1006
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/17/2017 1006
Dibromochloromethane	ND		1	0.50	ug/L	05/17/2017 1006
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/17/2017 1006
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/17/2017 1006
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/17/2017 1006
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/17/2017 1006
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/17/2017 1006
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/17/2017 1006
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/17/2017 1006
1,1-Dichloroethane	ND		1	0.50	ug/L	05/17/2017 1006
1,2-Dichloroethane	ND		1	0.50	ug/L	05/17/2017 1006
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/17/2017 1006
1,1-Dichloroethene	ND		1	0.50	ug/L	05/17/2017 1006
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/17/2017 1006
1,2-Dichloropropane	ND		1	0.50	ug/L	05/17/2017 1006
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/17/2017 1006
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/17/2017 1006
Ethylbenzene	ND		1	0.50	ug/L	05/17/2017 1006
2-Hexanone	ND		1	10	ug/L	05/17/2017 1006
Isobutyl alcohol	ND		1	50	ug/L	05/17/2017 1006
Methacrylonitrile	ND		1	5.0	ug/L	05/17/2017 1006
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/17/2017 1006
4-Methyl-2-pentanone	ND		1	10	ug/L	05/17/2017 1006
Methylene chloride	ND		1	0.50	ug/L	05/17/2017 1006
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/17/2017 1006
Styrene	ND		1	0.50	ug/L	05/17/2017 1006
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/17/2017 1006

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ42222-001
Batch: 42222
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/17/2017 1006
Tetrachloroethene	ND		1	0.50	ug/L	05/17/2017 1006
Toluene	ND		1	0.50	ug/L	05/17/2017 1006
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/17/2017 1006
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/17/2017 1006
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/17/2017 1006
Trichloroethene	ND		1	0.50	ug/L	05/17/2017 1006
Trichlorofluoromethane	ND		1	0.50	ug/L	05/17/2017 1006
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/17/2017 1006
Vinyl acetate	ND		1	5.0	ug/L	05/17/2017 1006
Vinyl chloride	ND		1	0.50	ug/L	05/17/2017 1006
Xylenes (total)	ND		1	0.50	ug/L	05/17/2017 1006

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		106	70-130
1,2-Dichloroethane-d4		90	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ42222-002
Batch: 42222
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	100		1	100	60-140	05/17/2017 0906
Acetonitrile	500	680		1	135	60-140	05/17/2017 0906
Acrolein	500	620		1	123	14-175	05/17/2017 0906
Acrylonitrile	100	94		1	94	60-140	05/17/2017 0906
Benzene	50	51		1	102	70-130	05/17/2017 0906
Bromodichloromethane	50	55		1	109	70-130	05/17/2017 0906
Bromoform	50	49		1	98	70-130	05/17/2017 0906
Bromomethane (Methyl bromide)	50	67		1	134	60-140	05/17/2017 0906
2-Butanone (MEK)	100	89		1	89	60-140	05/17/2017 0906
Carbon disulfide	50	53		1	105	60-140	05/17/2017 0906
Carbon tetrachloride	50	53		1	106	70-130	05/17/2017 0906
2-Chloro-1,3-Butadiene (Chloroprene)	50	51		1	103	70-130	05/17/2017 0906
Chlorobenzene	50	51		1	102	70-130	05/17/2017 0906
Chloroethane	50	59		1	117	60-140	05/17/2017 0906
Chloroform	50	52		1	104	70-130	05/17/2017 0906
Chloromethane (Methyl chloride)	50	63		1	126	60-140	05/17/2017 0906
3-Chloropropene (Allyl chloride)	50	50		1	99	70-130	05/17/2017 0906
1,2-Dibromo-3-chloropropane (DBCP)	50	45		1	90	70-130	05/17/2017 0906
Dibromochloromethane	50	56		1	112	70-130	05/17/2017 0906
1,2-Dibromoethane (EDB)	50	51		1	102	70-130	05/17/2017 0906
Dibromomethane (Methylene bromide)	50	52		1	103	70-130	05/17/2017 0906
trans-1,4-Dichloro-2-butene	50	56		1	111	34-142	05/17/2017 0906
1,3-Dichlorobenzene	50	51		1	103	70-130	05/17/2017 0906
1,4-Dichlorobenzene	50	50		1	101	70-130	05/17/2017 0906
1,2-Dichlorobenzene	50	51		1	102	70-130	05/17/2017 0906
Dichlorodifluoromethane	50	65		1	130	60-140	05/17/2017 0906
1,1-Dichloroethane	50	51		1	103	70-130	05/17/2017 0906
1,2-Dichloroethane	50	52		1	103	70-130	05/17/2017 0906
trans-1,2-Dichloroethene	50	52		1	104	70-130	05/17/2017 0906
1,1-Dichloroethene	50	52		1	103	70-130	05/17/2017 0906
cis-1,2-Dichloroethene	50	52		1	105	70-130	05/17/2017 0906
1,2-Dichloropropane	50	53		1	106	70-130	05/17/2017 0906
trans-1,3-Dichloropropene	50	56		1	112	70-130	05/17/2017 0906
cis-1,3-Dichloropropene	50	57		1	113	70-130	05/17/2017 0906
Ethylbenzene	50	50		1	100	70-130	05/17/2017 0906
2-Hexanone	100	91		1	91	60-140	05/17/2017 0906
Isobutyl alcohol	500	570		1	115	70-130	05/17/2017 0906
Methacrylonitrile	250	240		1	97	70-130	05/17/2017 0906
Methyl iodide (Iodomethane)	50	53		1	105	70-130	05/17/2017 0906
4-Methyl-2-pentanone	100	96		1	96	60-140	05/17/2017 0906
Methylene chloride	50	49		1	98	70-130	05/17/2017 0906
Propionitrile (Ethyl cyanide)	500	520		1	104	70-130	05/17/2017 0906
Styrene	50	55		1	109	70-130	05/17/2017 0906
1,1,2,2-Tetrachloroethane	50	47		1	95	70-130	05/17/2017 0906

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ42222-002
Batch: 42222
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,1,2-Tetrachloroethane	50	52		1	103	70-130	05/17/2017 0906
Tetrachloroethene	50	52		1	105	70-130	05/17/2017 0906
Toluene	50	53		1	105	70-130	05/17/2017 0906
1,2,4-Trichlorobenzene	50	53		1	106	70-130	05/17/2017 0906
1,1,1-Trichloroethane	50	53		1	105	70-130	05/17/2017 0906
1,1,2-Trichloroethane	50	48		1	96	70-130	05/17/2017 0906
Trichloroethene	50	51		1	102	70-130	05/17/2017 0906
Trichlorofluoromethane	50	57		1	115	60-140	05/17/2017 0906
1,2,3-Trichloropropane	50	48		1	95	70-130	05/17/2017 0906
Vinyl acetate	50	50		1	101	60-140	05/17/2017 0906
Vinyl chloride	50	58		1	116	60-140	05/17/2017 0906
Xylenes (total)	100	100		1	101	70-130	05/17/2017 0906

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		108	70-130
1,2-Dichloroethane-d4		92	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ42239-001
Batch: 42239
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	05/17/2017 1124

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		100	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ42239-002
Batch: 42239
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	49		1	98	70-130	05/17/2017 1035

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		98	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - Duplicate

Sample ID: SE16069-001DU
Batch: 42239
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,4-Dioxane	ND	ND		1	0.00	20	05/17/2017 1741

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MS

Sample ID: SE16069-004MS
Batch: 42239
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	ND	50	50		1	100	43-173	05/17/2017 1805

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ42406-001
Batch: 42406
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	05/18/2017 1549
Acetonitrile	ND		1	20	ug/L	05/18/2017 1549
Acrolein	ND		1	5.0	ug/L	05/18/2017 1549
Acrylonitrile	ND		1	5.0	ug/L	05/18/2017 1549
Benzene	ND		1	0.50	ug/L	05/18/2017 1549
Bromodichloromethane	ND		1	0.50	ug/L	05/18/2017 1549
Bromoform	ND		1	0.50	ug/L	05/18/2017 1549
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	05/18/2017 1549
2-Butanone (MEK)	ND		1	10	ug/L	05/18/2017 1549
Carbon disulfide	ND		1	0.50	ug/L	05/18/2017 1549
Carbon tetrachloride	ND		1	0.50	ug/L	05/18/2017 1549
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	05/18/2017 1549
Chlorobenzene	ND		1	0.50	ug/L	05/18/2017 1549
Chloroethane	ND		1	0.50	ug/L	05/18/2017 1549
Chloroform	ND		1	0.50	ug/L	05/18/2017 1549
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	05/18/2017 1549
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	05/18/2017 1549
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	05/18/2017 1549
Dibromochloromethane	ND		1	0.50	ug/L	05/18/2017 1549
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	05/18/2017 1549
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	05/18/2017 1549
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	05/18/2017 1549
1,2-Dichlorobenzene	ND		1	0.50	ug/L	05/18/2017 1549
1,4-Dichlorobenzene	ND		1	0.50	ug/L	05/18/2017 1549
1,3-Dichlorobenzene	ND		1	0.50	ug/L	05/18/2017 1549
Dichlorodifluoromethane	ND		1	0.50	ug/L	05/18/2017 1549
1,1-Dichloroethane	ND		1	0.50	ug/L	05/18/2017 1549
1,2-Dichloroethane	ND		1	0.50	ug/L	05/18/2017 1549
1,1-Dichloroethene	ND		1	0.50	ug/L	05/18/2017 1549
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	05/18/2017 1549
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	05/18/2017 1549
1,2-Dichloropropane	ND		1	0.50	ug/L	05/18/2017 1549
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	05/18/2017 1549
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	05/18/2017 1549
Ethylbenzene	ND		1	0.50	ug/L	05/18/2017 1549
2-Hexanone	ND		1	10	ug/L	05/18/2017 1549
Isobutyl alcohol	ND		1	50	ug/L	05/18/2017 1549
Methacrylonitrile	ND		1	5.0	ug/L	05/18/2017 1549
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	05/18/2017 1549
4-Methyl-2-pentanone	ND		1	10	ug/L	05/18/2017 1549
Methylene chloride	ND		1	0.50	ug/L	05/18/2017 1549
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	05/18/2017 1549
Styrene	ND		1	0.50	ug/L	05/18/2017 1549
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	05/18/2017 1549

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ42406-001
Batch: 42406
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	05/18/2017 1549
Tetrachloroethene	ND		1	0.50	ug/L	05/18/2017 1549
Toluene	ND		1	0.50	ug/L	05/18/2017 1549
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	05/18/2017 1549
1,1,1-Trichloroethane	ND		1	0.50	ug/L	05/18/2017 1549
1,1,2-Trichloroethane	ND		1	0.50	ug/L	05/18/2017 1549
Trichloroethene	ND		1	0.50	ug/L	05/18/2017 1549
Trichlorofluoromethane	ND		1	0.50	ug/L	05/18/2017 1549
1,2,3-Trichloropropane	ND		1	0.50	ug/L	05/18/2017 1549
Vinyl acetate	ND		1	5.0	ug/L	05/18/2017 1549
Vinyl chloride	ND		1	0.50	ug/L	05/18/2017 1549
Xylenes (total)	ND		1	0.50	ug/L	05/18/2017 1549

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		106	70-130
1,2-Dichloroethane-d4		103	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ42406-002
Batch: 42406
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	88		1	88	60-140	05/18/2017 1452
Acetonitrile	500	530		1	105	60-140	05/18/2017 1452
Acrolein	500	670		1	134	14-175	05/18/2017 1452
Acrylonitrile	100	99		1	99	60-140	05/18/2017 1452
Benzene	50	50		1	100	70-130	05/18/2017 1452
Bromodichloromethane	50	52		1	105	70-130	05/18/2017 1452
Bromoform	50	44		1	88	70-130	05/18/2017 1452
Bromomethane (Methyl bromide)	50	67		1	134	60-140	05/18/2017 1452
2-Butanone (MEK)	100	93		1	93	60-140	05/18/2017 1452
Carbon disulfide	50	49		1	97	60-140	05/18/2017 1452
Carbon tetrachloride	50	48		1	97	70-130	05/18/2017 1452
2-Chloro-1,3-Butadiene (Chloroprene)	50	51		1	101	70-130	05/18/2017 1452
Chlorobenzene	50	49		1	98	70-130	05/18/2017 1452
Chloroethane	50	57		1	113	60-140	05/18/2017 1452
Chloroform	50	50		1	101	70-130	05/18/2017 1452
Chloromethane (Methyl chloride)	50	64		1	128	60-140	05/18/2017 1452
3-Chloropropene (Allyl chloride)	50	49		1	97	70-130	05/18/2017 1452
1,2-Dibromo-3-chloropropane (DBCP)	50	43		1	86	70-130	05/18/2017 1452
Dibromochloromethane	50	52		1	104	70-130	05/18/2017 1452
1,2-Dibromoethane (EDB)	50	50		1	101	70-130	05/18/2017 1452
Dibromomethane (Methylene bromide)	50	50		1	100	70-130	05/18/2017 1452
trans-1,4-Dichloro-2-butene	50	56		1	112	34-142	05/18/2017 1452
1,2-Dichlorobenzene	50	47		1	93	70-130	05/18/2017 1452
1,4-Dichlorobenzene	50	48		1	97	70-130	05/18/2017 1452
1,3-Dichlorobenzene	50	50		1	99	70-130	05/18/2017 1452
Dichlorodifluoromethane	50	67		1	135	60-140	05/18/2017 1452
1,1-Dichloroethane	50	51		1	102	70-130	05/18/2017 1452
1,2-Dichloroethane	50	51		1	102	70-130	05/18/2017 1452
1,1-Dichloroethene	50	50		1	101	70-130	05/18/2017 1452
trans-1,2-Dichloroethene	50	51		1	102	70-130	05/18/2017 1452
cis-1,2-Dichloroethene	50	51		1	102	70-130	05/18/2017 1452
1,2-Dichloropropane	50	52		1	104	70-130	05/18/2017 1452
cis-1,3-Dichloropropene	50	53		1	106	70-130	05/18/2017 1452
trans-1,3-Dichloropropene	50	51		1	103	70-130	05/18/2017 1452
Ethylbenzene	50	48		1	96	70-130	05/18/2017 1452
2-Hexanone	100	100		1	101	60-140	05/18/2017 1452
Isobutyl alcohol	500	440		1	88	70-130	05/18/2017 1452
Methacrylonitrile	250	260		1	105	70-130	05/18/2017 1452
Methyl iodide (Iodomethane)	50	49		1	98	70-130	05/18/2017 1452
4-Methyl-2-pentanone	100	100		1	101	60-140	05/18/2017 1452
Methylene chloride	50	47		1	95	70-130	05/18/2017 1452
Propionitrile (Ethyl cyanide)	500	480		1	96	70-130	05/18/2017 1452
Styrene	50	52		1	104	70-130	05/18/2017 1452
1,1,2,2-Tetrachloroethane	50	48		1	95	70-130	05/18/2017 1452

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ42406-002
Batch: 42406
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,1,2-Tetrachloroethane	50	47		1	93	70-130	05/18/2017 1452
Tetrachloroethene	50	50		1	100	70-130	05/18/2017 1452
Toluene	50	51		1	103	70-130	05/18/2017 1452
1,2,4-Trichlorobenzene	50	43		1	85	70-130	05/18/2017 1452
1,1,1-Trichloroethane	50	50		1	99	70-130	05/18/2017 1452
1,1,2-Trichloroethane	50	46		1	93	70-130	05/18/2017 1452
Trichloroethene	50	51		1	101	70-130	05/18/2017 1452
Trichlorofluoromethane	50	56		1	112	60-140	05/18/2017 1452
1,2,3-Trichloropropane	50	51		1	101	70-130	05/18/2017 1452
Vinyl acetate	50	48		1	97	60-140	05/18/2017 1452
Vinyl chloride	50	60		1	120	60-140	05/18/2017 1452
Xylenes (total)	100	97		1	97	70-130	05/18/2017 1452

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		107	70-130
1,2-Dichloroethane-d4		101	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - MB

Sample ID: SQ42187-001
Batch: 42187
Analytical Method: 200.8
Matrix: Aqueous
Prep Method: 200.2
Prep Date: 05/17/2017 1036

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		1	2.0	ug/L	05/18/2017 0240
Cadmium	ND		1	0.50	ug/L	05/18/2017 0240
Lead	ND		1	1.0	ug/L	05/18/2017 0240
Silver	ND		1	1.0	ug/L	05/18/2017 0240

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - LCS

Sample ID: SQ42187-002
Batch: 42187
Analytical Method: 200.8

Matrix: Aqueous
Prep Method: 200.2
Prep Date: 05/17/2017 1036

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	100	94		1	94	85-115	05/18/2017 0245
Cadmium	100	94		1	94	85-115	05/18/2017 0245
Lead	100	95		1	95	85-115	05/18/2017 0245
Silver	100	96		1	96	85-115	05/18/2017 0245

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

CWA / NPDES
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
www.shealylab.com

Number 41536

Client: S&G	Report to Contact: K. Anderson	Sampler (Printed Name): Richard Jones	Quote No.
Address: 614 Ott Rd	Telephone No. / Email	Field Parameters (i.e., pH, temp, DO) can be recorded below	Page 1 of 2
City: Columbia / State: SC / Zip Code: 29205	Preservative: 1. Unpres. 2. NaOH 3. H2SO4 (4. HNO3) (5. HCl) 6. Sodium Thiosulfate		
Project Name: Pinewood	P.O Number		SE16069
Project Number: Monthly WTP			

Analysis: VOC-All; Sim 1,4 D; Metals

	VOC-All	Sim 1,4 D	Metals
Number of Containers	15	15	
Container Type: P=Plastic G=Glass	G	G	G
Preservative (use code on left)			

Sample ID / Description (Containers for each sample may be combined on one line)	Collection Date	Collection Time (military)	G=Grab C=Composite	Collection Sample Temp °C	Chlorinated Y/N	Matrix GW DW WW HW S=Solid	VOC-All	Sim 1,4 D	Metals	Remarks / Cooler ID
ct 1 FD MH1	Start 5-16-17 / Finish 5-16-17	0827 / 0827	G		N		X	X		
Sec1 FD MH2	Start 5-16-17 / Finish 5-16-17	0834 / 0834	G		N		X	X		
Sec1 FD MH3	Start 5-16-17 / Finish 5-16-17	0843 / 0843	G		N		X	X		
Sec1 FD MH4	Start 5-16-17 / Finish 5-16-17	0912 / 0912	G		N		X	X		
Sec1 FD MH5	Start 5-16-17 / Finish 5-16-17	0857 / 0857	G		N		X	X		

Turn Around Time Required (Prior lab approval required for expedited TAT): ☐ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification: ☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by / Sampler: [signature]	5/16/17	1400	1. Received by: [signature]	5/16/17	1400
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: [signature]	5/16/17	1525	4. Laboratory Received by: [signature]	5/16/17	1525

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on Ice (Check) ☑ Yes ☐ No ☐ Ice Pack; Receipt Temp. 2.2 °C; Temp. Blank ☐ Y / ☐ N

Document Number: F-AD-102 rev 1

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY

CWA / NPDES
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
www.shealylab.com

Number 41538

Client: S&G	Report to Contact: K. Anderson	Sampler (Printed Name): Richard Jones	Quote No.
Address: 614 Old Rd	Telephone No. / Email:	Field Parameters (i.e., pH, temp, DO) can be recorded below	Page 2 of 3
City: Columbia	State: SC	Zip Code: 29205	Preservative: 1. Unpres. 2. NaOH 3. H2SO4 4. HNO3 5. HCl 6. Sodium Thiosulfate
Project Name: Pinewood			
Project Number: Monthly WTP	P.O Number:		

Sample ID / Description (Containers for each sample may be combined on one line)	Collection Date	Collection Time (military)	G=Grab C=Composite	Collection Sample Temp °C	Chlorinated Y/N	Matrix: GW DW WW HW S=Solid	↓ Analysis ↓ VOC-AWB	Sim 1,4-D	Metals	Number of Containers	Container Type: P=Plastic G=Glass	Preservative (use code on left)	Remarks / Cooler ID
							15	15	9				
							6	6	6				
Pond A Per FD	Start 5-16-17	0928	G		N		X	X	X				
	Finish 5-16-17	0928											
Pond A Sec 1 FD	Start 5-16-17	0936	G		N		X	X	X				
	Finish 5-16-17	0936											
001	Start 5-16-17	0954	G		N		X	X					
	Finish 5-16-17	0954											
002	Start 5-16-17	1006	G		N		X	X					
	Finish 5-16-17	1006											
Pond B Per FD	Start 5-16-17	1017	G		N		X	X	X				
	Finish 5-16-17	1017											

SE16069

Turn Around Time Required (Prior lab approval required for expedited TAT): ☐ Standard ☐ Rush (Please Specify)

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify):

Possible Hazard Identification: ☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

	Date	Time		Date	Time
1. Relinquished by Sampler	5/16/17	1400	1. Received by	5/16/17	1400
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	5/16/17	1525	4. Laboratory Received by: Evan Cole	5/16/17	1525

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) ☐Yes ☐No ☐Ice Pack Receipt Temp. 2.3°C Temp. Blank ☐Y / ☐N

Document Number: F-AD-132 rev 1

SHEALY ENVIRONMENTAL SERVICES, INC.

SHEALY

CWA / NPDES
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
www.shealylab.com

Number 41539

Client: S&G	Report to Contact: K. Anderson	Sampler (Printed Name): Richard Jones	Quote No.
Address: 614 Ott Rd	Telephone No. / Email	Field Parameters (i.e., pH, temp, DO) can be recorded below	Page 3 of 3
City: Columbia / State: SC / Zip Code: 29205	Preservative: 1. Unpres. 2. NaOH 3. H2SO4 4. HNO3 (5. HCl circled) 6. Sodium Thiosulfate		
Project Name: Pinewood			
Project Number: Monthly WTP	P.O Number		

SE16069

Sample ID / Description (Containers for each sample may be combined on one line)		Collection Date	Collection Time (military)	G=Grab C=Composite	Collection Sample Temp°C	Chlorinated Y/N	Matrix (GW DW WW HW S=Solid)	↓ Analysis ↓	VOC-AmII	Sim 1,4D									Remarks / Cooler ID
Number of Containers									3	3									
Container Type: P=Plastic G=Glass																			
Preservative (use code on left)																			
Field Blank	Start	5-16-17	1021	G		N			X	X									
	Finish	5-16-17	1021																
Trip Blank	Start	5-16-17	1024	G		N													
	Finish	5-16-17	1024																
	Start																		
	Finish																		
	Start																		
	Finish																		
	Start																		
	Finish																		

Turn Around Time Required (Prior lab approval required for expedited TAT) ☐ Standard ☐ Rush (Please Specify)

Sample Disposal ☐ Return to Client ☐ Disposal by Lab

QC Requirements (Specify)

Possible Hazard Identification ☐Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison ☐Unknown

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by / Sampler: [signature]	5-16-17	1400	1. Received by: [signature]	5/16/17	1400
2. Relinquished by			2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by: [signature]	5/16/17	1525	4. Laboratory Received by: [signature]	5/16/17	1525

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on Ice (Check) ☑ Yes ☐ No ☐ Ice Pack | Receipt Temp. 2.3 °C | Temp. Blank ☑ Y / ☐ N

Document Number: F-AD-132 rev 1

Shealy Environmental Services, Inc.
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: S & G Cooler Inspected by/date: ECO / 5-16-17 Lot #: SE16069

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: 17-619 Cl strip ID:

Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt:

/ / °C 12.3/12.3 °C / / °C / / °C

Method: ☑ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C

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? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☐	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) 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 ☐	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 ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	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?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

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 _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) _____ were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: Evan Cole Verified by: _____ Date: 5-16-17

Comments: _____

Report of Analysis

Smith Gardner, Inc.
14 North Boylan Avenue
Raleigh, NC 27603
Attention: Kevin Anderson

Project Name: Pinewood LF Water Table Program (WTP)

Lot Number: SF22038
Date Completed: 06/29/2017

Kelly M. Nance
Project Manager

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

Case Narrative
Smith Gardner, Inc.
Lot Number: SF22038

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.

Inorganic Metals
Samples -008 and -010 were diluted 5x for arsenic and cadmium due to matrix interference. The reporting limits have been raised accordingly.

Sample Summary
Smith Gardner, Inc.
Lot Number: SF22038

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SECT. 1 FD MH1	Aqueous	06/22/2017 0918	06/22/2017
002	SECT. 1 FD MH2	Aqueous	06/22/2017 0924	06/22/2017
003	SECT. 1 FD MH3	Aqueous	06/22/2017 0928	06/22/2017
004	SECT. 1 FD MH4	Aqueous	06/22/2017 0946	06/22/2017
005	SECT. 1 FD MH5	Aqueous	06/22/2017 0935	06/22/2017
006	001	Aqueous	06/22/2017 1022	06/22/2017
007	002	Aqueous	06/22/2017 1031	06/22/2017
008	POND A PER. FD	Aqueous	06/22/2017 1012	06/22/2017
009	POND B PER. FD	Aqueous	06/22/2017 1040	06/22/2017
010	POND A SECT. 1 FD	Aqueous	06/22/2017 1007	06/22/2017
011	FIELD BLANK	Aqueous	06/22/2017 1044	06/22/2017
012	TRIP BLANK	Aqueous	06/22/2017 1047	06/22/2017

(12 samples)

Executive Summary

Smith Gardner, Inc.

Lot Number: SF22038

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	SECT. 1 FD MH5	Aqueous	1,4-Dioxane	8260B (SIM	12		ug/L	17
005	SECT. 1 FD MH5	Aqueous	1,1-Dichloroethane	8260B	3.2		ug/L	18
008	POND A PER. FD	Aqueous	Lead	200.8	6.1		ug/L	29
010	POND A SECT. 1 FD	Aqueous	1,1-Dichloroethane	8260B	0.61		ug/L	35
011	FIELD BLANK	Aqueous	Methylene chloride	8260B	0.57		ug/L	39
012	TRIP BLANK	Aqueous	Methylene chloride	8260B	1.7		ug/L	42

(6 detections)

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-001
Description: SECT. 1 FD MH1
Matrix: Aqueous
Date Sampled: 06/22/2017 0918
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	06/28/2017 2141	TML		45435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-001
Description: SECT. 1 FD MH1
Matrix: Aqueous
Date Sampled: 06/22/2017 0918
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1926	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-001
Description: SECT. 1 FD MH1
Matrix: Aqueous
Date Sampled: 06/22/2017 0918
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1926	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		99	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-002
Description: SECT. 1 FD MH2
Matrix: Aqueous
Date Sampled: 06/22/2017 0924
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1511	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-002
Description: SECT. 1 FD MH2
Matrix: Aqueous
Date Sampled: 06/22/2017 0924
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1949	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-002
Description: SECT. 1 FD MH2
Matrix: Aqueous
Date Sampled: 06/22/2017 0924
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1949	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		104	70-130
Toluene-d8		100	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-003
Description: SECT. 1 FD MH3
Matrix: Aqueous
Date Sampled: 06/22/2017 0928
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1535	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-003
Description: SECT. 1 FD MH3
Matrix: Aqueous
Date Sampled: 06/22/2017 0928
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2011	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-003
Description: SECT. 1 FD MH3
Matrix: Aqueous
Date Sampled: 06/22/2017 0928
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2011	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-004
Description: SECT. 1 FD MH4
Matrix: Aqueous
Date Sampled: 06/22/2017 0946
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1559	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		99	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-004
Description: SECT. 1 FD MH4
Matrix: Aqueous
Date Sampled: 06/22/2017 0946
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2034	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-004
Description: SECT. 1 FD MH4
Matrix: Aqueous
Date Sampled: 06/22/2017 0946
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2034	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-005
Description: SECT. 1 FD MH5
Matrix: Aqueous
Date Sampled: 06/22/2017 0935
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1623	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	12		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-005
Description: SECT. 1 FD MH5
Matrix: Aqueous
Date Sampled: 06/22/2017 0935
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2056	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	3.2		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-005
Description: SECT. 1 FD MH5
Matrix: Aqueous
Date Sampled: 06/22/2017 0935
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2056	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		99	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-006
Description: 001
Matrix: Aqueous
Date Sampled: 06/22/2017 1022
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	06/28/2017 2205	TML		45435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		92	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SF22038-006
Description: 001 | Matrix: Aqueous
Date Sampled: 06/22/2017 1022
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2118	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-006
Description: 001
Matrix: Aqueous
Date Sampled: 06/22/2017 1022
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2118	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		100	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-007
Description: 002
Matrix: Aqueous
Date Sampled: 06/22/2017 1031
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	06/28/2017 2229	TML		45435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		91	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc. | Laboratory ID: SF22038-007
Description: 002 | Matrix: Aqueous
Date Sampled: 06/22/2017 1031
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2141	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-007
Description: 002
Matrix: Aqueous
Date Sampled: 06/22/2017 1031
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2141	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
B = Detected in the method blank
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ND = Not detected at or above the PQL
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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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-008
Description: POND A PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1012
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1735	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		100	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-008
Description: POND A PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1012
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2204	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-008
Description: POND A PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1012
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 2204	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		100	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-008
Description: POND A PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1012
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	06/24/2017 0834	BNW	06/22/2017 1739	44963
2	200.2	200.8	5	06/27/2017 1538	BNW	06/22/2017 1739	44963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		10	ug/L	2
Cadmium	7440-43-9	200.8	ND		2.5	ug/L	2
Lead	7439-92-1	200.8	6.1		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-009
Description: POND B PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1040
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	06/28/2017 2253	TML		45435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-009
Description: POND B PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1040
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/28/2017 0427	ECP		45347

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-009
Description: POND B PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1040
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/28/2017 0427	ECP		45347

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		95	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		100	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-009
Description: POND B PER. FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1040
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	06/24/2017 0839	BNW	06/22/2017 1739	44963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		2.0	ug/L	1
Cadmium	7440-43-9	200.8	ND		0.50	ug/L	1
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-010
Description: POND A SECT. 1 FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1007
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	5030B	8260B (SIM iso.)	1	06/28/2017 2317	TML		45435

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	2

Surrogate	Q	Run 2 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-010
Description: POND A SECT. 1 FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1007
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/28/2017 0449	ECP		45347

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	0.61		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	ND		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-010
Description: POND A SECT. 1 FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1007
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/28/2017 0449	ECP		45347

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		99	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 PQL
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"

ICP-MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-010
Description: POND A SECT. 1 FD
Matrix: Aqueous
Date Sampled: 06/22/2017 1007
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	200.2	200.8	1	06/24/2017 0855	BNW	06/22/2017 1739	44963
2	200.2	200.8	5	06/27/2017 1543	BNW	06/22/2017 1739	44963

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Arsenic	7440-38-2	200.8	ND		10	ug/L	2
Cadmium	7440-43-9	200.8	ND		2.5	ug/L	2
Lead	7439-92-1	200.8	ND		1.0	ug/L	1
Silver	7440-22-4	200.8	ND		1.0	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-011
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 06/22/2017 1044
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1359	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-011
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 06/22/2017 1044
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1841	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	0.57		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-011
Description: FIELD BLANK
Matrix: Aqueous
Date Sampled: 06/22/2017 1044
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1841	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		94	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	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 PQL
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"

Volatile Organic Compounds by GC/MS (SIM with isotope dilution)

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-012
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 06/22/2017 1047
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B (SIM iso.)	1	06/23/2017 1423	TML		45072

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,4-Dioxane	123-91-1	8260B (SIM	ND		3.0	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		97	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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-012
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 06/22/2017 1047
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1904	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
Acetone	67-64-1	8260B	ND		10	ug/L	1
Acetonitrile	75-05-8	8260B	ND		20	ug/L	1
Acrolein	107-02-8	8260B	ND		5.0	ug/L	1
Acrylonitrile	107-13-1	8260B	ND		5.0	ug/L	1
Benzene	71-43-2	8260B	ND		0.50	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		0.50	ug/L	1
Bromoform	75-25-2	8260B	ND		0.50	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		0.50	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		0.50	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		0.50	ug/L	1
2-Chloro-1,3-Butadiene (Chloroprene)	126-99-8	8260B	ND		5.0	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		0.50	ug/L	1
Chloroethane	75-00-3	8260B	ND		0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		0.50	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		0.50	ug/L	1
3-Chloropropene (Allyl chloride)	107-05-1	8260B	ND		2.0	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		0.50	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		0.50	ug/L	1
Dibromomethane (Methylene bromide)	74-95-3	8260B	ND		0.50	ug/L	1
trans-1,4-Dichloro-2-butene	110-57-6	8260B	ND		2.0	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		0.50	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		0.50	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		0.50	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		0.50	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		0.50	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		0.50	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		0.50	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		0.50	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		0.50	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		0.50	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		0.50	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		0.50	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	ug/L	1
Isobutyl alcohol	78-83-1	8260B	ND		50	ug/L	1
Methacrylonitrile	126-98-7	8260B	ND		5.0	ug/L	1
Methyl iodide (Iodomethane)	74-88-4	8260B	ND		5.0	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	ug/L	1
Methylene chloride	75-09-2	8260B	1.7		0.50	ug/L	1
Propionitrile (Ethyl cyanide)	107-12-0	8260B	ND		20	ug/L	1
Styrene	100-42-5	8260B	ND		0.50	ug/L	1
1,1,1,2-Tetrachloroethane	630-20-6	8260B	ND		0.50	ug/L	1

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 PQL
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"

Volatile Organic Compounds by GC/MS

Client: Smith Gardner, Inc.
Laboratory ID: SF22038-012
Description: TRIP BLANK
Matrix: Aqueous
Date Sampled: 06/22/2017 1047
Date Received: 06/22/2017

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/26/2017 1904	ECP		45249

Parameter	CAS Number	Analytical Method	Result	Q	PQL	Units	Run
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		0.50	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		0.50	ug/L	1
Toluene	108-88-3	8260B	ND		0.50	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		0.50	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		0.50	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		0.50	ug/L	1
Trichloroethene	79-01-6	8260B	ND		0.50	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		0.50	ug/L	1
1,2,3-Trichloropropane	96-18-4	8260B	ND		0.50	ug/L	1
Vinyl acetate	108-05-4	8260B	ND		5.0	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		0.50	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		101	70-130
Toluene-d8		101	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 PQL
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"

QC Summary

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ45072-001
Batch: 45072
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	06/23/2017 1326

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		97	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ45072-002
Batch: 45072
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	50		1	99	70-130	06/23/2017 1252

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - Duplicate

Sample ID: SF22038-002DU
Batch: 45072
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,4-Dioxane	ND	ND		1	0.00	20	06/23/2017 1848

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		89	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MS

Sample ID: SF22038-004MS
Batch: 45072
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	ND	50	48		1	95	43-173	06/23/2017 1912

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		86	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ45249-001
Batch: 45249
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	06/26/2017 1802
Acetonitrile	ND		1	20	ug/L	06/26/2017 1802
Acrolein	ND		1	5.0	ug/L	06/26/2017 1802
Acrylonitrile	ND		1	5.0	ug/L	06/26/2017 1802
Benzene	ND		1	0.50	ug/L	06/26/2017 1802
Bromodichloromethane	ND		1	0.50	ug/L	06/26/2017 1802
Bromoform	ND		1	0.50	ug/L	06/26/2017 1802
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	06/26/2017 1802
2-Butanone (MEK)	ND		1	10	ug/L	06/26/2017 1802
Carbon disulfide	ND		1	0.50	ug/L	06/26/2017 1802
Carbon tetrachloride	ND		1	0.50	ug/L	06/26/2017 1802
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	06/26/2017 1802
Chlorobenzene	ND		1	0.50	ug/L	06/26/2017 1802
Chloroethane	ND		1	0.50	ug/L	06/26/2017 1802
Chloroform	ND		1	0.50	ug/L	06/26/2017 1802
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	06/26/2017 1802
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	06/26/2017 1802
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	06/26/2017 1802
Dibromochloromethane	ND		1	0.50	ug/L	06/26/2017 1802
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	06/26/2017 1802
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	06/26/2017 1802
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	06/26/2017 1802
1,4-Dichlorobenzene	ND		1	0.50	ug/L	06/26/2017 1802
1,3-Dichlorobenzene	ND		1	0.50	ug/L	06/26/2017 1802
1,2-Dichlorobenzene	ND		1	0.50	ug/L	06/26/2017 1802
Dichlorodifluoromethane	ND		1	0.50	ug/L	06/26/2017 1802
1,2-Dichloroethane	ND		1	0.50	ug/L	06/26/2017 1802
1,1-Dichloroethane	ND		1	0.50	ug/L	06/26/2017 1802
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	06/26/2017 1802
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	06/26/2017 1802
1,1-Dichloroethene	ND		1	0.50	ug/L	06/26/2017 1802
1,2-Dichloropropane	ND		1	0.50	ug/L	06/26/2017 1802
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	06/26/2017 1802
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	06/26/2017 1802
Ethylbenzene	ND		1	0.50	ug/L	06/26/2017 1802
2-Hexanone	ND		1	10	ug/L	06/26/2017 1802
Isobutyl alcohol	ND		1	50	ug/L	06/26/2017 1802
Methacrylonitrile	ND		1	5.0	ug/L	06/26/2017 1802
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	06/26/2017 1802
4-Methyl-2-pentanone	ND		1	10	ug/L	06/26/2017 1802
Methylene chloride	ND		1	0.50	ug/L	06/26/2017 1802
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	06/26/2017 1802
Styrene	ND		1	0.50	ug/L	06/26/2017 1802
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	06/26/2017 1802

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ45249-001
Batch: 45249
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	06/26/2017 1802
Tetrachloroethene	ND		1	0.50	ug/L	06/26/2017 1802
Toluene	ND		1	0.50	ug/L	06/26/2017 1802
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	06/26/2017 1802
1,1,2-Trichloroethane	ND		1	0.50	ug/L	06/26/2017 1802
1,1,1-Trichloroethane	ND		1	0.50	ug/L	06/26/2017 1802
Trichloroethene	ND		1	0.50	ug/L	06/26/2017 1802
Trichlorofluoromethane	ND		1	0.50	ug/L	06/26/2017 1802
1,2,3-Trichloropropane	ND		1	0.50	ug/L	06/26/2017 1802
Vinyl acetate	ND		1	5.0	ug/L	06/26/2017 1802
Vinyl chloride	ND		1	0.50	ug/L	06/26/2017 1802
Xylenes (total)	ND		1	0.50	ug/L	06/26/2017 1802

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		95	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ45249-002
Batch: 45249
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	110		1	105	60-140	06/26/2017 1701
Acetonitrile	500	610		1	121	60-140	06/26/2017 1701
Acrolein	500	500		1	100	60-140	06/26/2017 1701
Acrylonitrile	100	100		1	101	70-130	06/26/2017 1701
Benzene	50	52		1	103	70-130	06/26/2017 1701
Bromodichloromethane	50	53		1	105	70-130	06/26/2017 1701
Bromoform	50	54		1	109	70-130	06/26/2017 1701
Bromomethane (Methyl bromide)	50	54		1	108	70-130	06/26/2017 1701
2-Butanone (MEK)	100	97		1	97	70-130	06/26/2017 1701
Carbon disulfide	50	54		1	109	70-130	06/26/2017 1701
Carbon tetrachloride	50	52		1	105	70-130	06/26/2017 1701
2-Chloro-1,3-Butadiene (Chloroprene)	50	45		1	90	70-130	06/26/2017 1701
Chlorobenzene	50	53		1	105	70-130	06/26/2017 1701
Chloroethane	50	54		1	109	70-130	06/26/2017 1701
Chloroform	50	51		1	103	70-130	06/26/2017 1701
Chloromethane (Methyl chloride)	50	51		1	102	60-140	06/26/2017 1701
3-Chloropropene (Allyl chloride)	50	50		1	99	70-130	06/26/2017 1701
1,2-Dibromo-3-chloropropane (DBCP)	50	51		1	102	70-130	06/26/2017 1701
Dibromochloromethane	50	54		1	109	70-130	06/26/2017 1701
1,2-Dibromoethane (EDB)	50	52		1	104	70-130	06/26/2017 1701
Dibromomethane (Methylene bromide)	50	51		1	102	70-130	06/26/2017 1701
trans-1,4-Dichloro-2-butene	50	51		1	102	70-130	06/26/2017 1701
1,4-Dichlorobenzene	50	52		1	103	70-130	06/26/2017 1701
1,3-Dichlorobenzene	50	52		1	104	70-130	06/26/2017 1701
1,2-Dichlorobenzene	50	53		1	105	70-130	06/26/2017 1701
Dichlorodifluoromethane	50	58		1	117	60-140	06/26/2017 1701
1,2-Dichloroethane	50	50		1	99	70-130	06/26/2017 1701
1,1-Dichloroethane	50	52		1	103	70-130	06/26/2017 1701
trans-1,2-Dichloroethene	50	52		1	105	70-130	06/26/2017 1701
cis-1,2-Dichloroethene	50	51		1	101	70-130	06/26/2017 1701
1,1-Dichloroethene	50	51		1	102	70-130	06/26/2017 1701
1,2-Dichloropropane	50	52		1	103	70-130	06/26/2017 1701
trans-1,3-Dichloropropene	50	54		1	108	70-130	06/26/2017 1701
cis-1,3-Dichloropropene	50	56		1	111	70-130	06/26/2017 1701
Ethylbenzene	50	53		1	106	70-130	06/26/2017 1701
2-Hexanone	100	96		1	96	70-130	06/26/2017 1701
Isobutyl alcohol	500	560		1	112	60-140	06/26/2017 1701
Methacrylonitrile	250	250		1	101	70-130	06/26/2017 1701
Methyl iodide (Iodomethane)	50	54		1	108	70-130	06/26/2017 1701
4-Methyl-2-pentanone	100	98		1	98	70-130	06/26/2017 1701
Methylene chloride	50	45		1	90	70-130	06/26/2017 1701
Propionitrile (Ethyl cyanide)	500	540		1	108	70-130	06/26/2017 1701
Styrene	50	53		1	107	70-130	06/26/2017 1701
1,1,2,2-Tetrachloroethane	50	53		1	105	70-130	06/26/2017 1701

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ45249-002
Batch: 45249
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,1,2-Tetrachloroethane	50	52		1	105	70-130	06/26/2017 1701
Tetrachloroethene	50	53		1	107	70-130	06/26/2017 1701
Toluene	50	52		1	104	70-130	06/26/2017 1701
1,2,4-Trichlorobenzene	50	51		1	103	70-130	06/26/2017 1701
1,1,2-Trichloroethane	50	48		1	95	70-130	06/26/2017 1701
1,1,1-Trichloroethane	50	51		1	102	70-130	06/26/2017 1701
Trichloroethene	50	52		1	103	70-130	06/26/2017 1701
Trichlorofluoromethane	50	53		1	106	70-130	06/26/2017 1701
1,2,3-Trichloropropane	50	49		1	99	70-130	06/26/2017 1701
Vinyl acetate	50	51		1	103	60-140	06/26/2017 1701
Vinyl chloride	50	53		1	106	70-130	06/26/2017 1701
Xylenes (total)	100	100		1	103	70-130	06/26/2017 1701

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		103	70-130
1,2-Dichloroethane-d4		94	70-130
Toluene-d8		103	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: SF22038-001DU
Batch: 45249
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
Acetone	ND	ND		1	0.00	20	06/26/2017 2311
Acetonitrile	ND	ND		1	0.00	20	06/26/2017 2311
Acrolein	ND	ND		1	0.00	20	06/26/2017 2311
Acrylonitrile	ND	ND		1	0.00	20	06/26/2017 2311
Benzene	ND	ND		1	0.00	20	06/26/2017 2311
Bromodichloromethane	ND	ND		1	0.00	20	06/26/2017 2311
Bromoform	ND	ND		1	0.00	20	06/26/2017 2311
Bromomethane (Methyl bromide)	ND	ND		1	0.00	20	06/26/2017 2311
2-Butanone (MEK)	ND	ND		1	0.00	20	06/26/2017 2311
Carbon disulfide	ND	ND		1	0.00	20	06/26/2017 2311
Carbon tetrachloride	ND	ND		1	0.00	20	06/26/2017 2311
2-Chloro-1,3-Butadiene (Chloroprene)	ND	ND		1	0.00	20	06/26/2017 2311
Chlorobenzene	ND	ND		1	0.00	20	06/26/2017 2311
Chloroethane	ND	ND		1	0.00	20	06/26/2017 2311
Chloroform	ND	ND		1	0.00	20	06/26/2017 2311
Chloromethane (Methyl chloride)	ND	ND		1	0.00	20	06/26/2017 2311
3-Chloropropene (Allyl chloride)	ND	ND		1	0.00	20	06/26/2017 2311
1,2-Dibromo-3-chloropropane (DBCP)	ND	ND		1	0.00	20	06/26/2017 2311
Dibromochloromethane	ND	ND		1	0.00	20	06/26/2017 2311
1,2-Dibromoethane (EDB)	ND	ND		1	0.00	20	06/26/2017 2311
Dibromomethane (Methylene bromide)	ND	ND		1	0.00	20	06/26/2017 2311
trans-1,4-Dichloro-2-butene	ND	ND		1	0.00	20	06/26/2017 2311
1,2-Dichlorobenzene	ND	ND		1	0.00	20	06/26/2017 2311
1,3-Dichlorobenzene	ND	ND		1	0.00	20	06/26/2017 2311
1,4-Dichlorobenzene	ND	ND		1	0.00	20	06/26/2017 2311
Dichlorodifluoromethane	ND	ND		1	0.00	20	06/26/2017 2311
1,1-Dichloroethane	ND	ND		1	0.00	20	06/26/2017 2311
1,2-Dichloroethane	ND	ND		1	0.00	20	06/26/2017 2311
1,1-Dichloroethene	ND	ND		1	0.00	20	06/26/2017 2311
cis-1,2-Dichloroethene	ND	ND		1	0.00	20	06/26/2017 2311
trans-1,2-Dichloroethene	ND	ND		1	0.00	20	06/26/2017 2311
1,2-Dichloropropane	ND	ND		1	0.00	20	06/26/2017 2311
cis-1,3-Dichloropropene	ND	ND		1	0.00	20	06/26/2017 2311
trans-1,3-Dichloropropene	ND	ND		1	0.00	20	06/26/2017 2311
Ethylbenzene	ND	ND		1	0.00	20	06/26/2017 2311
2-Hexanone	ND	ND		1	0.00	20	06/26/2017 2311
Isobutyl alcohol	ND	ND		1	0.00	20	06/26/2017 2311
Methacrylonitrile	ND	ND		1	0.00	20	06/26/2017 2311
Methyl iodide (Iodomethane)	ND	ND		1	0.00	20	06/26/2017 2311
4-Methyl-2-pentanone	ND	ND		1	0.00	20	06/26/2017 2311
Methylene chloride	ND	ND		1	0.00	20	06/26/2017 2311
Propionitrile (Ethyl cyanide)	ND	ND		1	0.00	20	06/26/2017 2311
Styrene	ND	ND		1	0.00	20	06/26/2017 2311
1,1,1,2-Tetrachloroethane	ND	ND		1	0.00	20	06/26/2017 2311

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - Duplicate

Sample ID: SF22038-001DU
Batch: 45249
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Sample Amount (ug/L)	Result (ug/L)	Q	Dil	% RPD	% RPD Limit	Analysis Date
1,1,2,2-Tetrachloroethane	ND	ND		1	0.00	20	06/26/2017 2311
Tetrachloroethene	ND	ND		1	0.00	20	06/26/2017 2311
Toluene	ND	ND		1	0.00	20	06/26/2017 2311
1,2,4-Trichlorobenzene	ND	ND		1	0.00	20	06/26/2017 2311
1,1,1-Trichloroethane	ND	ND		1	0.00	20	06/26/2017 2311
1,1,2-Trichloroethane	ND	ND		1	0.00	20	06/26/2017 2311
Trichloroethene	ND	ND		1	0.00	20	06/26/2017 2311
Trichlorofluoromethane	ND	ND		1	0.00	20	06/26/2017 2311
1,2,3-Trichloropropane	ND	ND		1	0.00	20	06/26/2017 2311
Vinyl acetate	ND	ND		1	0.00	20	06/26/2017 2311
Vinyl chloride	ND	ND		1	0.00	20	06/26/2017 2311
Xylenes (total)	ND	ND		1	0.00	20	06/26/2017 2311

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		96	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		99	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MS

Sample ID: SF22038-002MS
Batch: 45249
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
Acetone	ND	100	100		1	101	60-140	06/26/2017 2334
Acetonitrile	ND	500	560		1	113	60-140	06/26/2017 2334
Acrolein	ND	500	390		1	79	60-140	06/26/2017 2334
Acrylonitrile	ND	100	94		1	94	70-130	06/26/2017 2334
Benzene	ND	50	53		1	107	70-130	06/26/2017 2334
Bromodichloromethane	ND	50	53		1	105	70-130	06/26/2017 2334
Bromoform	ND	50	44		1	89	70-130	06/26/2017 2334
Bromomethane (Methyl bromide)	ND	50	57		1	114	70-130	06/26/2017 2334
2-Butanone (MEK)	ND	100	94		1	94	70-130	06/26/2017 2334
Carbon disulfide	ND	50	49		1	99	70-130	06/26/2017 2334
Carbon tetrachloride	ND	50	58		1	117	70-130	06/26/2017 2334
2-Chloro-1,3-Butadiene (Chloroprene)	ND	50	45		1	90	70-130	06/26/2017 2334
Chlorobenzene	ND	50	54		1	108	70-130	06/26/2017 2334
Chloroethane	ND	50	59		1	118	70-130	06/26/2017 2334
Chloroform	ND	50	53		1	107	70-130	06/26/2017 2334
Chloromethane (Methyl chloride)	ND	50	55		1	110	60-140	06/26/2017 2334
3-Chloropropene (Allyl chloride)	ND	50	49		1	98	70-130	06/26/2017 2334
1,2-Dibromo-3-chloropropane (DBCP)	ND	50	49		1	98	70-130	06/26/2017 2334
Dibromochloromethane	ND	50	51		1	102	70-130	06/26/2017 2334
1,2-Dibromoethane (EDB)	ND	50	51		1	103	70-130	06/26/2017 2334
Dibromomethane (Methylene bromide)	ND	50	52		1	104	70-130	06/26/2017 2334
trans-1,4-Dichloro-2-butene	ND	50	40		1	79	70-142	06/26/2017 2334
1,2-Dichlorobenzene	ND	50	54		1	107	70-130	06/26/2017 2334
1,3-Dichlorobenzene	ND	50	53		1	106	70-130	06/26/2017 2334
1,4-Dichlorobenzene	ND	50	52		1	104	70-130	06/26/2017 2334
Dichlorodifluoromethane	ND	50	69		1	139	60-140	06/26/2017 2334
1,1-Dichloroethane	ND	50	54		1	108	70-130	06/26/2017 2334
1,2-Dichloroethane	ND	50	50		1	100	70-130	06/26/2017 2334
1,1-Dichloroethene	ND	50	58		1	115	70-130	06/26/2017 2334
cis-1,2-Dichloroethene	ND	50	53		1	106	70-130	06/26/2017 2334
trans-1,2-Dichloroethene	ND	50	56		1	112	70-130	06/26/2017 2334
1,2-Dichloropropane	ND	50	54		1	108	70-130	06/26/2017 2334
cis-1,3-Dichloropropene	ND	50	56		1	112	70-130	06/26/2017 2334
trans-1,3-Dichloropropene	ND	50	52		1	103	70-130	06/26/2017 2334
Ethylbenzene	ND	50	55		1	110	70-130	06/26/2017 2334
2-Hexanone	ND	100	92		1	92	70-130	06/26/2017 2334
Isobutyl alcohol	ND	500	520		1	103	60-140	06/26/2017 2334
Methacrylonitrile	ND	250	240		1	96	70-130	06/26/2017 2334
Methyl iodide (Iodomethane)	ND	50	59		1	118	70-130	06/26/2017 2334
4-Methyl-2-pentanone	ND	100	96		1	96	70-130	06/26/2017 2334
Methylene chloride	ND	50	47		1	94	70-130	06/26/2017 2334
Propionitrile (Ethyl cyanide)	ND	500	510		1	102	70-130	06/26/2017 2334
Styrene	ND	50	44		1	87	70-130	06/26/2017 2334
1,1,1,2-Tetrachloroethane	ND	50	53		1	107	70-130	06/26/2017 2334

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MS

Sample ID: SF22038-002MS
Batch: 45249
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
1,1,2,2-Tetrachloroethane	ND	50	50		1	100	70-130	06/26/2017 2334
Tetrachloroethene	ND	50	57		1	114	70-130	06/26/2017 2334
Toluene	ND	50	53		1	107	70-130	06/26/2017 2334
1,2,4-Trichlorobenzene	ND	50	51		1	103	70-130	06/26/2017 2334
1,1,1-Trichloroethane	ND	50	56		1	113	70-130	06/26/2017 2334
1,1,2-Trichloroethane	ND	50	48		1	96	70-130	06/26/2017 2334
Trichloroethene	ND	50	55		1	110	70-130	06/26/2017 2334
Trichlorofluoromethane	ND	50	64		1	128	70-130	06/26/2017 2334
1,2,3-Trichloropropane	ND	50	47		1	94	70-130	06/26/2017 2334
Vinyl acetate	ND	50	47		1	94	60-140	06/26/2017 2334
Vinyl chloride	ND	50	58		1	117	70-130	06/26/2017 2334
Xylenes (total)	ND	100	100		1	102	70-130	06/26/2017 2334

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		93	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		102	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ45347-001
Batch: 45347
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Acetone	ND		1	10	ug/L	06/27/2017 2211
Acetonitrile	ND		1	20	ug/L	06/27/2017 2211
Acrolein	ND		1	5.0	ug/L	06/27/2017 2211
Acrylonitrile	ND		1	5.0	ug/L	06/27/2017 2211
Benzene	ND		1	0.50	ug/L	06/27/2017 2211
Bromodichloromethane	ND		1	0.50	ug/L	06/27/2017 2211
Bromoform	ND		1	0.50	ug/L	06/27/2017 2211
Bromomethane (Methyl bromide)	ND		1	0.50	ug/L	06/27/2017 2211
2-Butanone (MEK)	ND		1	10	ug/L	06/27/2017 2211
Carbon disulfide	ND		1	0.50	ug/L	06/27/2017 2211
Carbon tetrachloride	ND		1	0.50	ug/L	06/27/2017 2211
2-Chloro-1,3-Butadiene (Chloroprene)	ND		1	5.0	ug/L	06/27/2017 2211
Chlorobenzene	ND		1	0.50	ug/L	06/27/2017 2211
Chloroethane	ND		1	0.50	ug/L	06/27/2017 2211
Chloroform	ND		1	0.50	ug/L	06/27/2017 2211
Chloromethane (Methyl chloride)	ND		1	0.50	ug/L	06/27/2017 2211
3-Chloropropene (Allyl chloride)	ND		1	2.0	ug/L	06/27/2017 2211
1,2-Dibromo-3-chloropropane (DBCP)	ND		1	0.50	ug/L	06/27/2017 2211
Dibromochloromethane	ND		1	0.50	ug/L	06/27/2017 2211
1,2-Dibromoethane (EDB)	ND		1	0.50	ug/L	06/27/2017 2211
Dibromomethane (Methylene bromide)	ND		1	0.50	ug/L	06/27/2017 2211
trans-1,4-Dichloro-2-butene	ND		1	2.0	ug/L	06/27/2017 2211
1,3-Dichlorobenzene	ND		1	0.50	ug/L	06/27/2017 2211
1,4-Dichlorobenzene	ND		1	0.50	ug/L	06/27/2017 2211
1,2-Dichlorobenzene	ND		1	0.50	ug/L	06/27/2017 2211
Dichlorodifluoromethane	ND		1	0.50	ug/L	06/27/2017 2211
1,1-Dichloroethane	ND		1	0.50	ug/L	06/27/2017 2211
1,2-Dichloroethane	ND		1	0.50	ug/L	06/27/2017 2211
trans-1,2-Dichloroethene	ND		1	0.50	ug/L	06/27/2017 2211
1,1-Dichloroethene	ND		1	0.50	ug/L	06/27/2017 2211
cis-1,2-Dichloroethene	ND		1	0.50	ug/L	06/27/2017 2211
1,2-Dichloropropane	ND		1	0.50	ug/L	06/27/2017 2211
trans-1,3-Dichloropropene	ND		1	0.50	ug/L	06/27/2017 2211
cis-1,3-Dichloropropene	ND		1	0.50	ug/L	06/27/2017 2211
Ethylbenzene	ND		1	0.50	ug/L	06/27/2017 2211
2-Hexanone	ND		1	10	ug/L	06/27/2017 2211
Isobutyl alcohol	ND		1	50	ug/L	06/27/2017 2211
Methacrylonitrile	ND		1	5.0	ug/L	06/27/2017 2211
Methyl iodide (Iodomethane)	ND		1	5.0	ug/L	06/27/2017 2211
4-Methyl-2-pentanone	ND		1	10	ug/L	06/27/2017 2211
Methylene chloride	ND		1	0.50	ug/L	06/27/2017 2211
Propionitrile (Ethyl cyanide)	ND		1	20	ug/L	06/27/2017 2211
Styrene	ND		1	0.50	ug/L	06/27/2017 2211
1,1,2,2-Tetrachloroethane	ND		1	0.50	ug/L	06/27/2017 2211

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

Volatile Organic Compounds by GC/MS - MB

Sample ID: SQ45347-001
Batch: 45347
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,1,1,2-Tetrachloroethane	ND		1	0.50	ug/L	06/27/2017 2211
Tetrachloroethene	ND		1	0.50	ug/L	06/27/2017 2211
Toluene	ND		1	0.50	ug/L	06/27/2017 2211
1,2,4-Trichlorobenzene	ND		1	0.50	ug/L	06/27/2017 2211
1,1,1-Trichloroethane	ND		1	0.50	ug/L	06/27/2017 2211
1,1,2-Trichloroethane	ND		1	0.50	ug/L	06/27/2017 2211
Trichloroethene	ND		1	0.50	ug/L	06/27/2017 2211
Trichlorofluoromethane	ND		1	0.50	ug/L	06/27/2017 2211
1,2,3-Trichloropropane	ND		1	0.50	ug/L	06/27/2017 2211
Vinyl acetate	ND		1	5.0	ug/L	06/27/2017 2211
Vinyl chloride	ND		1	0.50	ug/L	06/27/2017 2211
Xylenes (total)	ND		1	0.50	ug/L	06/27/2017 2211

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		100	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		101	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ45347-002
Batch: 45347
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Acetone	100	120		1	119	60-140	06/27/2017 2111
Acetonitrile	500	590		1	117	60-140	06/27/2017 2111
Acrolein	500	500		1	100	60-140	06/27/2017 2111
Acrylonitrile	100	100		1	100	70-130	06/27/2017 2111
Benzene	50	52		1	105	70-130	06/27/2017 2111
Bromodichloromethane	50	53		1	106	70-130	06/27/2017 2111
Bromoform	50	51		1	103	70-130	06/27/2017 2111
Bromomethane (Methyl bromide)	50	55		1	110	70-130	06/27/2017 2111
2-Butanone (MEK)	100	100		1	100	70-130	06/27/2017 2111
Carbon disulfide	50	57		1	115	70-130	06/27/2017 2111
Carbon tetrachloride	50	57		1	114	70-130	06/27/2017 2111
2-Chloro-1,3-Butadiene (Chloroprene)	50	48		1	95	70-130	06/27/2017 2111
Chlorobenzene	50	53		1	107	70-130	06/27/2017 2111
Chloroethane	50	55		1	111	70-130	06/27/2017 2111
Chloroform	50	53		1	106	70-130	06/27/2017 2111
Chloromethane (Methyl chloride)	50	51		1	102	60-140	06/27/2017 2111
3-Chloropropene (Allyl chloride)	50	51		1	102	70-130	06/27/2017 2111
1,2-Dibromo-3-chloropropane (DBCP)	50	50		1	100	70-130	06/27/2017 2111
Dibromochloromethane	50	55		1	110	70-130	06/27/2017 2111
1,2-Dibromoethane (EDB)	50	52		1	103	70-130	06/27/2017 2111
Dibromomethane (Methylene bromide)	50	52		1	104	70-130	06/27/2017 2111
trans-1,4-Dichloro-2-butene	50	39		1	78	70-130	06/27/2017 2111
1,3-Dichlorobenzene	50	53		1	107	70-130	06/27/2017 2111
1,4-Dichlorobenzene	50	53		1	106	70-130	06/27/2017 2111
1,2-Dichlorobenzene	50	53		1	107	70-130	06/27/2017 2111
Dichlorodifluoromethane	50	68		1	137	60-140	06/27/2017 2111
1,1-Dichloroethane	50	54		1	107	70-130	06/27/2017 2111
1,2-Dichloroethane	50	49		1	98	70-130	06/27/2017 2111
trans-1,2-Dichloroethene	50	55		1	110	70-130	06/27/2017 2111
1,1-Dichloroethene	50	55		1	111	70-130	06/27/2017 2111
cis-1,2-Dichloroethene	50	53		1	106	70-130	06/27/2017 2111
1,2-Dichloropropane	50	52		1	104	70-130	06/27/2017 2111
trans-1,3-Dichloropropene	50	52		1	105	70-130	06/27/2017 2111
cis-1,3-Dichloropropene	50	56		1	111	70-130	06/27/2017 2111
Ethylbenzene	50	53		1	107	70-130	06/27/2017 2111
2-Hexanone	100	89		1	89	70-130	06/27/2017 2111
Isobutyl alcohol	500	560		1	112	60-140	06/27/2017 2111
Methacrylonitrile	250	250		1	100	70-130	06/27/2017 2111
Methyl iodide (Iodomethane)	50	57		1	113	70-130	06/27/2017 2111
4-Methyl-2-pentanone	100	93		1	93	70-130	06/27/2017 2111
Methylene chloride	50	47		1	93	70-130	06/27/2017 2111
Propionitrile (Ethyl cyanide)	500	530		1	105	70-130	06/27/2017 2111
Styrene	50	54		1	108	70-130	06/27/2017 2111
1,1,2,2-Tetrachloroethane	50	51		1	102	70-130	06/27/2017 2111

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

Volatile Organic Compounds by GC/MS - LCS

Sample ID: SQ45347-002
Batch: 45347
Analytical Method: 8260B

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,1,1,2-Tetrachloroethane	50	54		1	108	70-130	06/27/2017 2111
Tetrachloroethene	50	56		1	113	70-130	06/27/2017 2111
Toluene	50	53		1	107	70-130	06/27/2017 2111
1,2,4-Trichlorobenzene	50	52		1	104	70-130	06/27/2017 2111
1,1,1-Trichloroethane	50	55		1	111	70-130	06/27/2017 2111
1,1,2-Trichloroethane	50	48		1	97	70-130	06/27/2017 2111
Trichloroethene	50	54		1	107	70-130	06/27/2017 2111
Trichlorofluoromethane	50	61		1	122	70-130	06/27/2017 2111
1,2,3-Trichloropropane	50	49		1	97	70-130	06/27/2017 2111
Vinyl acetate	50	52		1	104	60-140	06/27/2017 2111
Vinyl chloride	50	55		1	109	70-130	06/27/2017 2111
Xylenes (total)	100	100		1	105	70-130	06/27/2017 2111

Surrogate	Q	% Rec	Acceptance Limit
Bromofluorobenzene		101	70-130
1,2-Dichloroethane-d4		93	70-130
Toluene-d8		104	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - MB

Sample ID: SQ45435-001
Batch: 45435
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
1,4-Dioxane	ND		1	3.0	ug/L	06/28/2017 1611

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		95	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

Volatile Organic Compounds by GC/MS (SIM with isotope dilution) - LCS

Sample ID: SQ45435-002
Batch: 45435
Analytical Method: 8260B (SIM iso.)

Matrix: Aqueous
Prep Method: 5030B

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
1,4-Dioxane	50	48		1	96	70-130	06/28/2017 1535

Surrogate	Q	% Rec	Acceptance Limit
1,2-Dichloroethane-d4		91	70-130

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - MB

Sample ID: SQ44963-001
Batch: 44963
Analytical Method: 200.8

Matrix: Aqueous
Prep Method: 200.2
Prep Date: 06/22/2017 1739

Parameter	Result	Q	Dil	PQL	Units	Analysis Date
Arsenic	ND		1	2.0	ug/L	06/24/2017 0751
Cadmium	ND		1	0.50	ug/L	06/24/2017 0751
Lead	ND		1	1.0	ug/L	06/24/2017 0751
Silver	ND		1	1.0	ug/L	06/24/2017 0751

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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

ICP-MS - LCS

Sample ID: SQ44963-002
Batch: 44963
Analytical Method: 200.8

Matrix: Aqueous
Prep Method: 200.2
Prep Date: 06/22/2017 1739

Parameter	Spike Amount (ug/L)	Result (ug/L)	Q	Dil	% Rec	% Rec Limit	Analysis Date
Arsenic	100	100		1	105	85-115	06/24/2017 0756
Cadmium	100	100		1	101	85-115	06/24/2017 0756
Lead	100	100		1	100	85-115	06/24/2017 0756
Silver	100	100		1	101	85-115	06/24/2017 0756

PQL = Practical quantitation limit
ND = Not detected at or above the PQL
P = The RPD between two GC columns exceeds 40%
J = Estimated result < PQL and ≥ MDL
N = Recovery is out of criteria
+ = 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.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111
www.shealylab.com

Chain of Custody Record

Number SF22038

Client: Smith Gardner	Report to Contact: Kevin Anderson	Telephone No. / Fax No. / Email: 919-828-0577	Quote No.: 15144
Address: 14 North Bolyan Ave	Sampler's Signature: x	Waybill No.:	Page: 1 of 2
City: Raleigh / State: NC / Zip Code: 27603	Printed Name: Richard Jones		
Project Name: Pinewood Water Table Program			
Project Number	P.O Number		

Sample ID / Description (Containers for each sample may be combined on one line)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aq.	No. of Containers by Preservation Type: Unpres.	H_2SO_4	HNO_3	HCL	NaOH	5035 kit	$NaOH+Zn$	Analysis (Attach list if more space is needed): Appendix IX VOC - cis-1,2-DCE	1,4-Dioxane SIM	As,Cd,Pb,Ag
Sect. 1 FD MH1	6-22-17	0918	G	X						6				X	X	
Sect. 1 FD MH2		0924	G	X						6				X	X	
Sect. 1 FD MH3		0928	G	X						6				X	X	
Sect. 1 FD MH4		0946	G	X						6				X	X	
Sect. 1 FD MH5		0935	G	X						6				X	X	
001		1022	G	X						5				X	X	
002		1031	G	X						6				X	X	
Pond A Per. FD		1012	G	X					1	6				X	X	X
Pond B Per. FD		1040	G	X					1	6				X	X	X
Pond A Sect. 1 FD		1007	G	X					1	6				X	X	X

Possible Hazard Identification: [X] Non-Hazard [ ] Flammable [ ] Skin Irritant [ ] Poison [ ] Unknown

Sample Disposal: [ ] Return to Client [X] Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made

Turn Around Time Required (Prior lab approval required for expedited TAT): [X] Standard [ ] Rush (Please Specify)

QC Requirements (Please Specify)

	Date	Time		Date	Time
1. Relinquished by	6-22-17	1315	1. Received by	6-22-17	1315
2. Relinquished by	6-22-17	1455	2. Received by		
3. Relinquished by			3. Laboratory Received by	6/22/17	1455

Comments

LAB USE ONLY: Received on Ice (Check) [X] Y [ ] N [ ] Ice Pack — Receipt Temp. 1.9 °C

TB

Document Number: F-AD-104 Effective Date 08-10-10

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.

Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
108 Vantage Point Drive • West Columbia, SC 29172
Telephone No. 803-791-9700 Fax No. 803-791-9111
www.shealylab.com

Number 65357

Client: S&G
Report to Contact: Kevin Anderson
Telephone No. / E-mail:
Quote No.:
Address: 614 Orr Rd
Sampler's Signature: x [signature]
Analysis (Attach list if more space is needed)
Page 1 of 1
City: Columbia State: SC Zip Code: 29205
Printed Name: Richard Jones
Project Name: Pinewood
Project No.: Monthly WTP
P.O. No.:
Laboratory Lot Number

Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G=Grab C=Composite	Matrix: Aqueous	Solid	Non-Aqueous	Unpres.	H_2SO_4	HNO_3	HCl	NaOH	Na Thio	VOC All	Sim 1,4 D	Remarks / Cooler I.D.
Field Blank	6-22-17	1044	6							x			X	X	
Trip Blank	6-22-17	1047	6							x					

Turn Around Time Required (Prior lab approval required for expedited TAT.) ☐ Standard ☐ Rush (Specify)
Sample Disposal ☐ Return to Client ☐ Disposal by Lab
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison ☐ Unknown
QC Requirements (Specify)

Relinquished by	Date	Time	Received by	Date	Time
1. Relinquished by [signature]	6-22-17	1315	1. Received by [signature]	6-22-17	1315
2. Relinquished by [signature]	6-22-17	1455	2. Received by		
3. Relinquished by			3. Received by		
4. Relinquished by			4. Laboratory received by [signature]	6/22/17	1455

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
Received on ice (Circle) (Yes) No Ice Pack
Receipt Temp. 1.9 °C TB

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: F-AD-133 Effective Date: 08-01-2014

Shealy Environmental Services, Inc.
Document Number: ME0018C-08

Page 1 of 1
Effective Date: 03/07/2017
Expiry Date: 03/07/2022

Sample Receipt Checklist (SRC)

Client: Smith Gardner Cooler Inspected by/date: CT / 6/22/17 Lot #: SF22038

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: 17-854 Cl strip ID:			
Cooler ID/Original temperature upon receipt/Derived (corrected) temperature upon receipt: 1 / 1.9 °C / / °C / / °C 6 / / °C			
Method: ☐ Temperature Blank ☐ Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C			
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? PM was Notified by: phone / email / face-to-face (circle one).
Yes ☐	No ☐	NA ☑	4. Is the commercial courier's packing slip attached to this form?
Yes ☑	No ☐		5. Were proper custody procedures (relinquished/received) followed?
Yes ☑	No ☐		6. Were sample IDs listed on the COC?
Yes ☑	No ☐		7. Were sample IDs listed on all sample containers?
Yes ☑	No ☐		8. Was collection date & time listed on the COC?
Yes ☑	No ☐		9. Was collection date & time listed on all sample containers?
Yes ☑	No ☐		10. Did all container label information (ID, date, time) agree with the COC?
Yes ☑	No ☐		11. Were tests to be performed listed on the COC?
Yes ☑	No ☐		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
Yes ☑	No ☐		13. Was adequate sample volume available?
Yes ☑	No ☐		14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
Yes ☐	No ☑		15. Were any samples containers missing/excess (circle one) 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 ☐	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 ☐	No ☐	NA ☑	19. Were all applicable NH3/TKN/cyanide/phenol/BNA (< 0.5mg/L) samples free of residual chlorine?
Yes ☐	No ☐	NA ☑	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?
Yes ☐	No ☑		22. Was the quote number used taken from the container label?

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 _____ (H_2SO_4, HNO_3, HCl, NaOH) using SR # _____.

Sample(s) 012 were received with bubbles >6 mm in diameter.

Samples(s) _____ were received with TRC > 0.5 mg/L (If #21 is No) and were adjusted accordingly in sample receiving with sodium thiosulfate ($Na_2S_2O_3$) with Shealy ID: _____.

SC Drinking Water Project Sample(s) pH verified to be < 2 by _____ Date: _____

Sample(s) _____ were Not received at a pH of < 2 and were adjusted accordingly using SR# _____

Sample labels applied by: CT Verified by: _____ Date: 6/22/17

Comments: _____