FIELD BORING LOG (12430-MW16)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 6, 2017	**Logged By:**	Thomas V.

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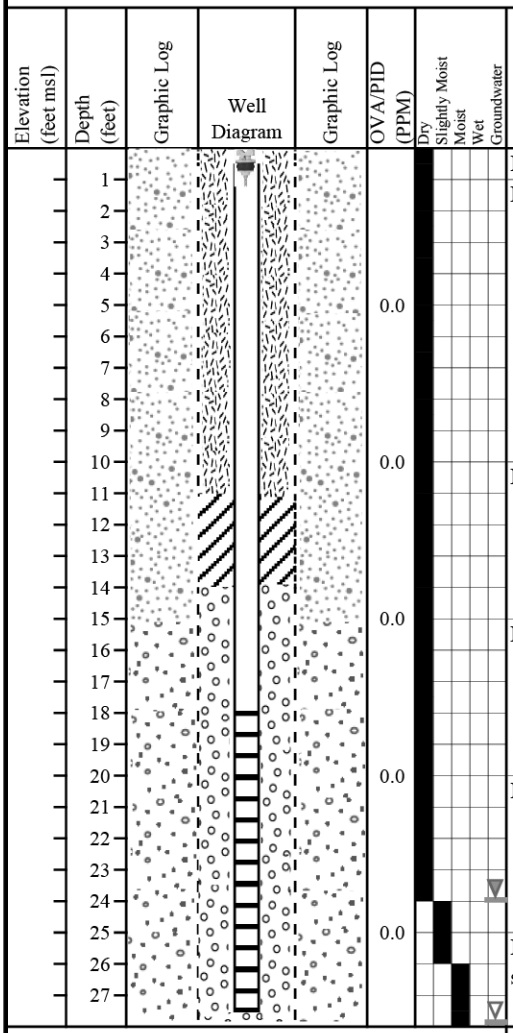

Soil Description
Broken Asphalt
Moderate red (5R 4/6), dry, clayey, fine sandy, silt
Moderate yellowish brown (10YR 5/4), dry, clayey, fine to medium sandy silt
Moderate yellow (5Y 7/6), dry, clayey, silty, fine to medium sand
Dark yellowish brown (10YR 4/2), dry, slightly clayey, silty, fine to medium sand
Light olive brown (5Y 5/6), slightly moist to moist, slightly clayey, silty, fine to meidum sand
Boring terminated at 28.0 feet below ground surface.

Legend

- Filter Sand Pack (14.0 - 28.0 feet BGS)
- Bentonite Seal (11.0 - 14.0 feet BGS)
- Bentonite-Cement Grout (0 - 11.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic

Notes

Boring terminated at 28.0 feet below ground surface. Groundwater encountered at 28.0 feet below ground surface at time of boring and 24.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105878.821
Easting	=	1569979.285
Top of Casing Elevation	=	1000.63
Ground Surface Elevation	=	1001.01
Total Well Depth	=	27.71
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	17.51-27.51

Bedrock - Igneous Bedrock - Sedimentary Other -	6-inch Outer Casing Depth =

FIELD BORING LOG (12430-MW16I)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	8.5" & 5.5" Roller Cone	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 7, 2017	**Logged By:**	Thomas V.

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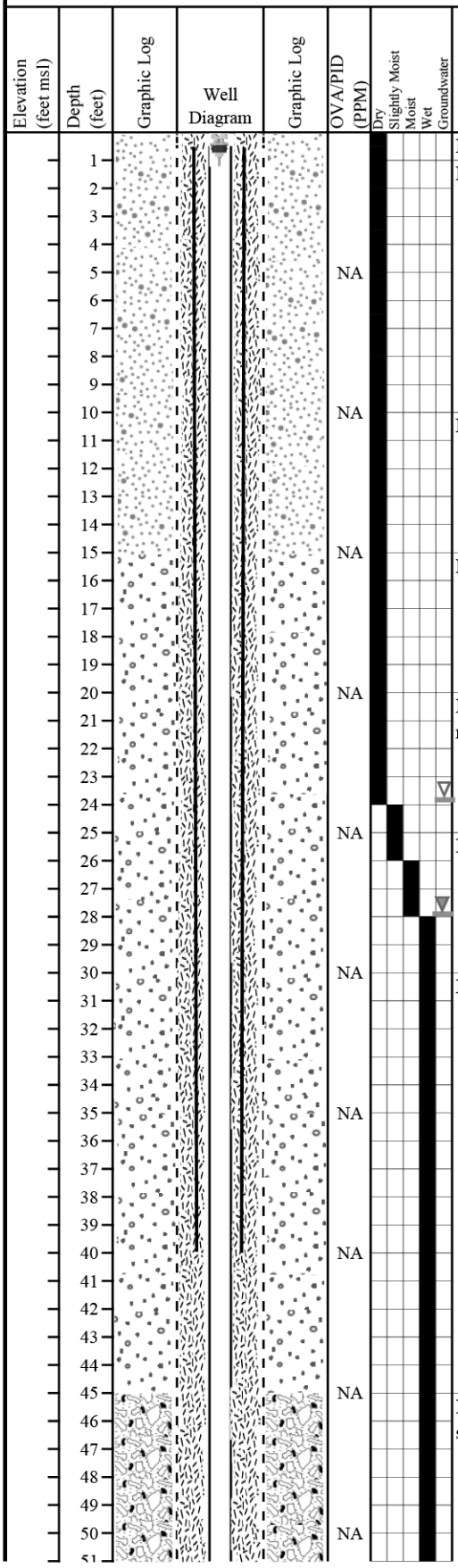
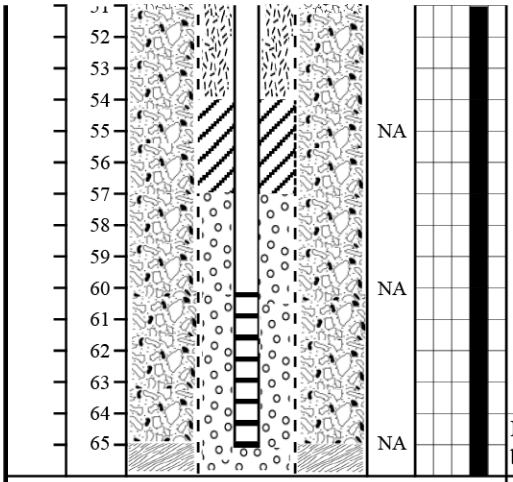


Soil Description
Broken Asphalt
Moderate red (5R 4/6), dry, clayey, fine sandy, silt
Moderate yellowish brown (10YR 5/4), dry, clayey, fine to medium sand silt
Moderate yellow (5Y 7/6), dry, clayey, silty, fine to medium sand
Dark yellowish brown (10YR 4/2), dry to slightly moist, slightly clayey, silty, fine to medium sand
Light olive brown (5Y 5/6), slightly moist to wet, slightly clayey, silty, fine to medium sand
Light olive brown (5Y 5/6), wet, silty, fine to medium sand
Partially weathered rock sampling as moderate yellowish brown (10YR 5/4), wet, clayey, silty, fine to medium sand



Drill refusal encountered at approximately 66.0 feet below ground surface. Granitic gneiss bedrock.

Boring terminated at 66.0 feet below ground surface.

Legend

- Filter Sand Pack (57.0 - 66.0 feet BGS)
- Bentonite Seal (54.0 - 57.0 feet BGS)
- Bentonite-Cement Grout (0 - 54.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 66.0 feet below ground surface. Groundwater encountered at 28.0 feet below ground surface at time of boring and 24.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105876.922
Easting	=	1569983.153
Top of Casing Elevation	=	1000.72
Ground Surface Elevation	=	1001.1
Total Well Depth	=	65.49
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	60.29-65.29
6-inch Outer Casing Depth	=	40

FIELD BORING LOG (12430-MW17)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 22, 2017	**Logged By:**	Thomas V.

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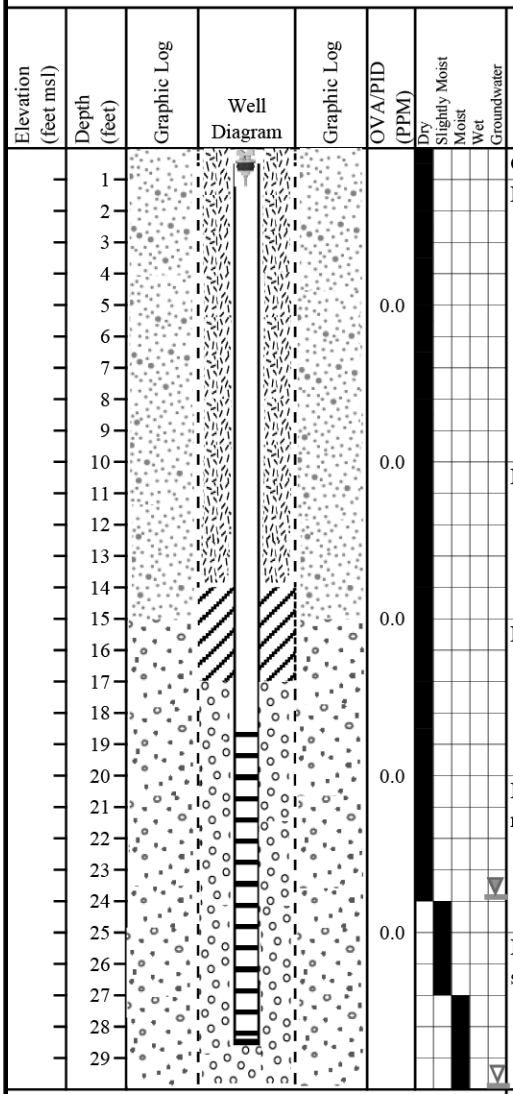


Soil Description
Grass
Moderate red (5R 4/6), dry, clayey, fine sandy, silt
Moderate yellowish brown (10YR 5/4), dry, clayey, fine to medium sandy, silt
Moderate yellow (5Y 7/6), dry, clayey, silty, fine to medium sand
Dark yellowish brown (10YR 4/2), dry to slightly moist, slightly clayey, silty, fine to medium sand
Light olive brown (5Y 5/6), slightly moist to moist, slightly clayey, silty, fine to medium sand
Boring terminated at 30.0 feet below ground surface.

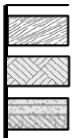
Legend

- Filter Sand Pack (17.0 - 30.0 feet BGS)
- Bentonite Seal (14.0 - 17.0 feet BGS)
- Bentonite-Cement Grout (0 - 14.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock

Notes

Boring terminated at 30.0 feet below ground surface. Groundwater encountered at 30.0 feet below ground surface at time of boring and 24.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105828.289
Easting	=	1569975.249
Top of Casing Elevation	=	999.85
Ground Surface Elevation	=	1000.25
Total Well Depth	=	28.82
Screen Length	=	10
Screen Size	=	0.01



Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Screened Interval Depth = 18.62-28.62
6-inch Outer Casing Depth =

FIELD BORING LOG (12430-MW17I)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 22, 2017	**Logged By:** Thomas V.

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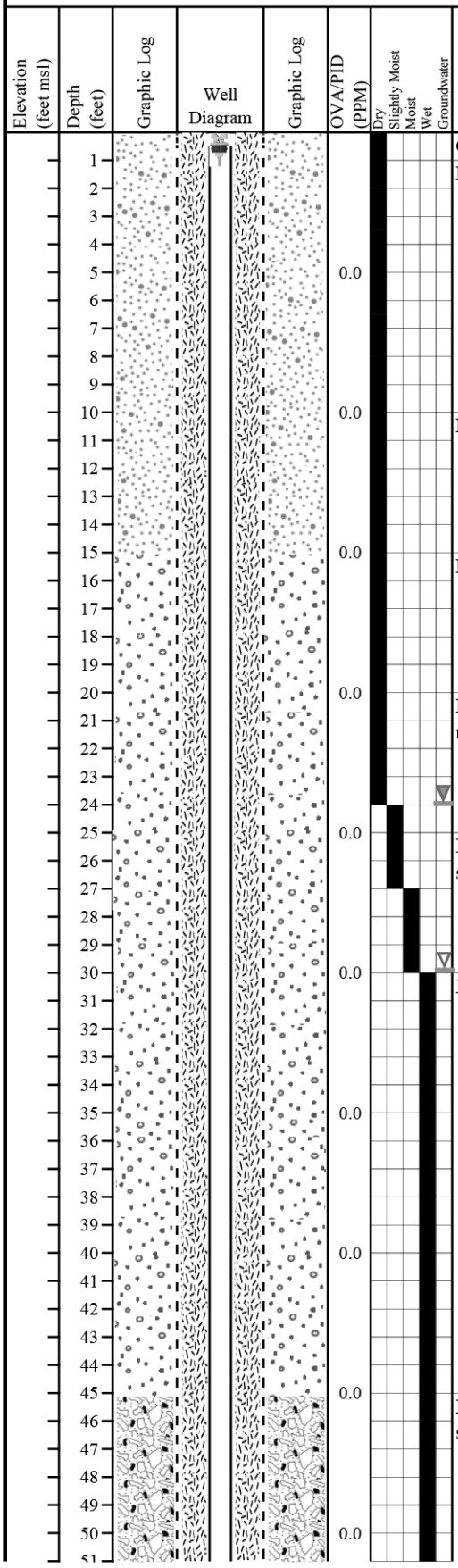

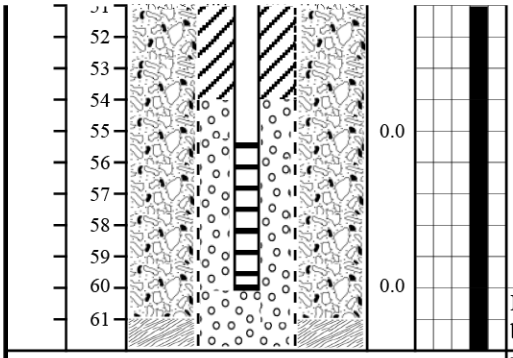

Drill refusal encountered at approximately 62.0 feet below ground surface. Granitic gneiss bedrock.

Boring terminated at 62.0 feet below ground surface.

Legend

- Filter Sand Pack (54.0 - 62.0 feet BGS)
- Bentonite Seal (51.0 - 54.0 feet BGS)
- Bentonite-Cement Grout (0 - 51.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 62.0 feet below ground surface. Groundwater encountered at 30.0 feet below ground surface at time of boring and 24.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105832.627
Easting	=	1569975.437
Top of Casing Elevation	=	1000.01
Ground Surface Elevation	=	1000.44
Total Well Depth	=	60.41
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	55.21-60.21
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW18)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 20, 2017	**Logged By:**	Thomas V.

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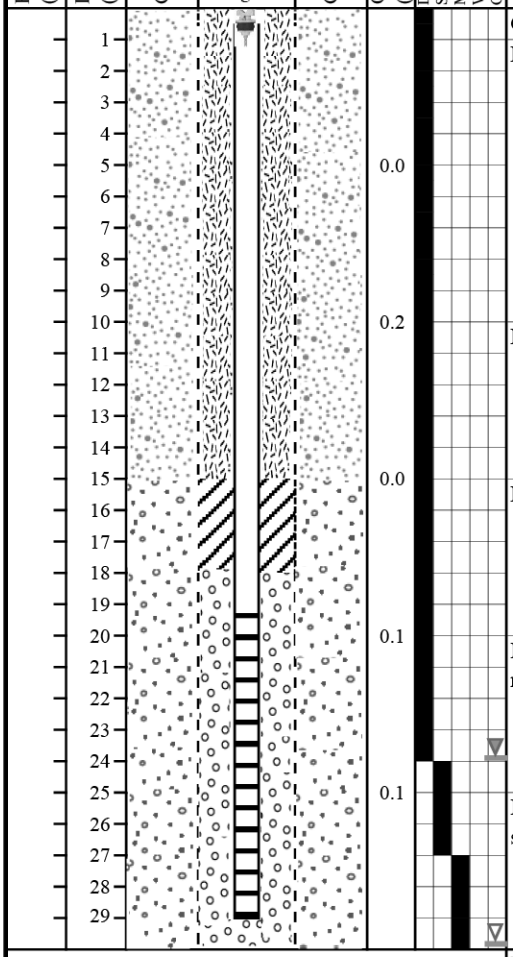

Soil Description
Grass
Moderate red (5R 4/6), dry, clayey, fine sandy, silt
Moderate yellowish brown (10YR 5/4), dry, clayey, fine to medium sandy silt
Moderate yellow (5Y 7/6), dry, clayey, silty, fine to medium sand
Dark yellowish brown (10YR 4/2), dry to slightly moist, slightly clayey, silty, fine to medium sand
Light olive brown (5Y 5/6), slightly moist to moist, slightly clayey, silty, fine to medium sand
Boring terminated at 30.0 feet below ground surface.

Legend

- Filter Sand Pack (18.0 - 30.0 feet BGS)
- Bentonite Seal (15.0 - 18.0 feet BGS)
- Bentonite-Cement Grout (0 - 15.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock

Notes

Boring terminated at 30.0 feet below ground surface. Groundwater encountered at 30.0 feet below ground surface at time of boring and 24.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105864.728
Easting	=	1570018.453
Top of Casing Elevation	=	1002.78
Ground Surface Elevation	=	1003.14
Total Well Depth	=	29.3
Screen Length	=	10
Screen Size	=	0.01

Bedrock - Metamorphic Bedrock - Igneous Bedrock - Sedimentary Other -	Screened Interval Depth = 19.10-29.10 6-inch Outer Casing Depth =

FIELD BORING LOG (12430-MW19)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 18, 2017	**Logged By:** Thomas V.

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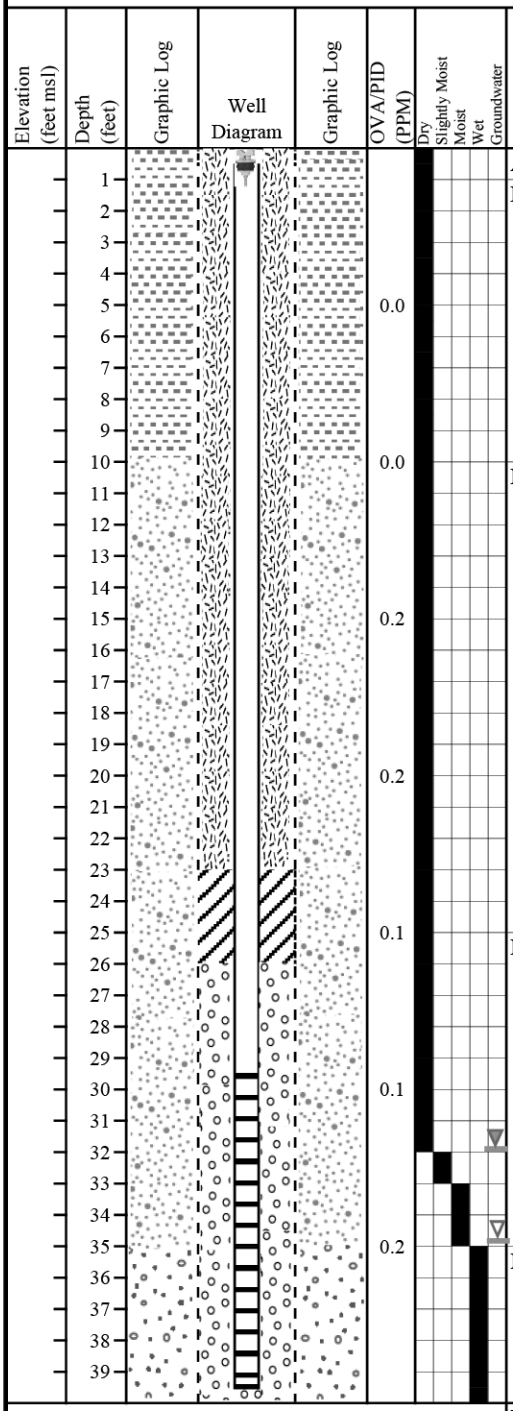


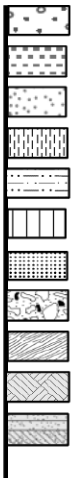
Soil Description
Asphalt
Moderate brown (10R 4/6), dry, clayey silt
Moderate red (5R 4/6), dry, clayey, fine sandy silt
Moderate brown (5YR 3/4), dry to moist, clayey, fine to medium sandy silt
Dark yellowish brown (10YR 4/2), wet, clayey, silty, fine to medium sand
Boring terminated at 40.0 feet below ground surface.

Legend

- Filter Sand Pack (26.0 - 40.0 feet BGS)
- Bentonite Seal (23.0 - 26.0 feet BGS)
- Bentonite-Cement Grout (0 - 23.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand

Notes

Boring terminated at 40.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 32.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Northing	=	1105920.966
Easting	=	1570049.399
Top of Casing Elevation	=	1008.24
Ground Surface Elevation	=	1008.61
Total Well Depth	=	39.69
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	29.49-39.49
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW19I)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	8.5" & 5.5" Roller Cone	**Drill Rig:**	AMS 9530
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 8, 2017	**Logged By:**	Thomas V.

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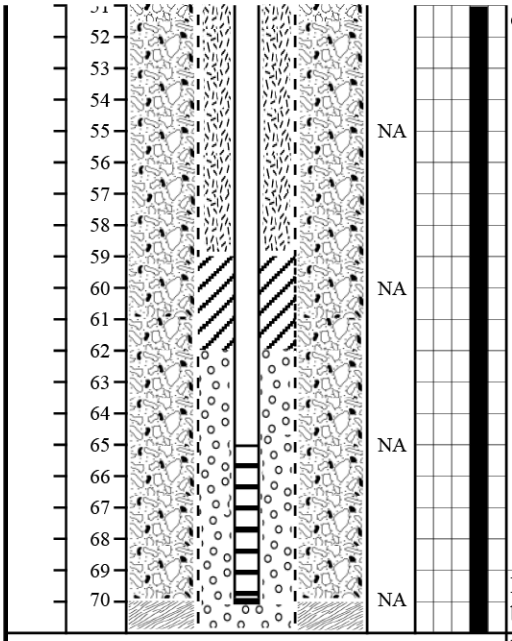
Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry / Slightly Moist / Moist / Wet / Groundwater	Soil Description
	1–9				NA		Asphalt Moderate brown (10R 4/6), dry, clayey silt
	10–14				NA		Moderate red (5R 4/6), dry, clayey, fine sandy silt
	15–19				NA		
	20–24				NA		
	25–29				NA		Moderate brown (5YR 3/4), dry to moist, clayey, fine to medium sandy silt
	30–34				NA		
	35–39				NA		Dark yellowish brown (10YR 4/2), wet, clayey, silty, fine to medium sand
	40–44				NA		
	45–49				NA		
	50–51				NA		Partially weathered rock sampling as dark yellowish brown (10YR 4/2), wet, micaceous,



clayey, silty, fine to course sand

Drill refusal encountered at approximately 71.0 feet below ground surface. Granitic gneiss bedrock.

Boring terminated at 71.0 feet below ground surface.

Legend

- Filter Sand Pack (62.0 - 71.0 feet BGS)
- Bentonite Seal (59.0 - 62.0 feet BGS)
- Bentonite-Cement Grout (0 - 59.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 71.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 32.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105920.966
Easting	=	1570049.399
Top of Casing Elevation	=	1008.24
Ground Surface Elevation	=	1008.61
Total Well Depth	=	70.68
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	65.48-70.48
6-inch Outer Casing Depth	=	45

FIELD BORING LOG (12430-MW20)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 8, 2017	**Logged By:**	Thomas V.

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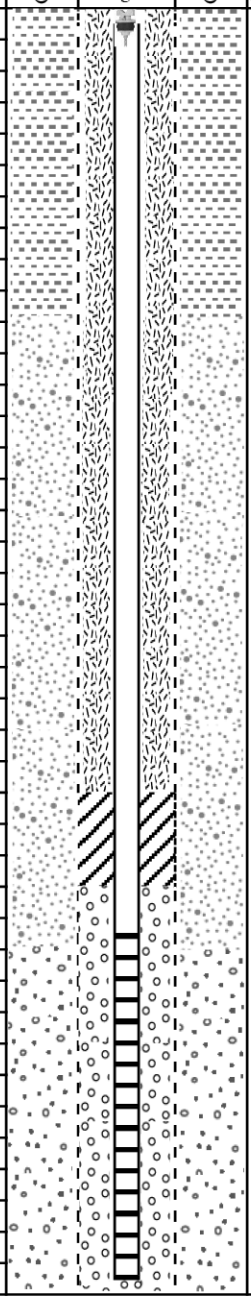
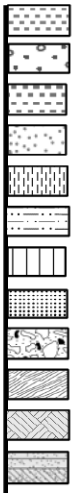
Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry / Slightly Moist / Moist / Wet / Groundwater	Soil Description
	1–40				0.4		Asphalt
							Moderate reddish brown (10R 4/6), dry, clayey silt
					0.1		Moderate red (5R 4/6), dry, clayey, fine sandy silt
					1.2		
					1.9		Dark yellowish brown (10YR 4/2), dry, slightly clayey, fine to medium sandy silt
					19.5		Moderate brown (5YR 3/4), dry, slightly clayey, fine to medium sandy silt
					26.7		Light brown (5YR 5/6), dry to slightly moist, clayey, silty, fine to course sand
					13.2		Light brown (5YR 5/6), moist to wet, clayey, silty, fine to course sand
					3.5		
							Boring terminated at 41.0 feet below ground surface.

Legend

- Filter Sand Pack (27.0 - 41.0 feet BGS)
- Bentonite Seal (24.0 - 27.0 feet BGS)
- Bentonite-Cement Grout (0 - 24.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand

Notes

Boring terminated at 41.0 feet below ground surface. Groundwater encountered at 40.0 feet below ground surface at time of boring and 32.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



Clayey Sand
Silty Sand
Clayey Silt
Sandy Silt
Sandy Clay
Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Northing	=	1105949.72
Easting	=	1570032.02
Top of Casing Elevation	=	1008.01
Ground Surface Elevation	=	1008.4
Total Well Depth	=	40.87
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	30.67-40.67
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW21)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 21, 2017	**Logged By:** Thomas V.

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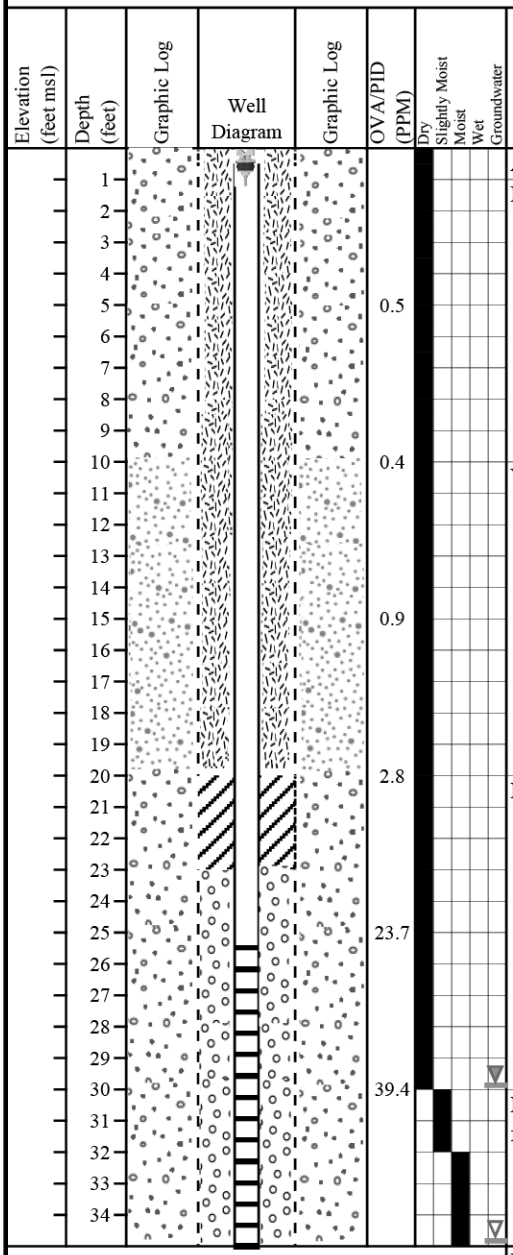

Soil Description
Asphalt
Dusky brown (5YR 2/2), dry, highly micaceous, silty, fine to course sand
Very dark red (5R 2/2), dry, slighlty micaceous, slightly clayey, fine to medium sandy silt
Dusky yellowish brown (10YR 2/2), dry, moderately micaceous, silty, fine to medium sand
Dusky yellowish brown (10YR 2/2), slightly moist to moist, moderately micaceous, silty, fine to medium sand
Boring terminated at 35.0 feet below ground surface.

Legend

- Filter Sand Pack (23.0 - 35.0 feet BGS)
- Bentonite Seal (20.0 - 23.0 feet BGS)
- Bentonite-Cement Grout (0 - 20.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay

Notes

Boring terminated at 61.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105986.401
Easting	=	1569960.977
Top of Casing Elevation	=	1006.73



Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Ground Surface Elevation	=	1007.16
Total Well Depth	=	35.14
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	24.94-34.94
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW22)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 8, 2017	**Logged By:** Thomas V.

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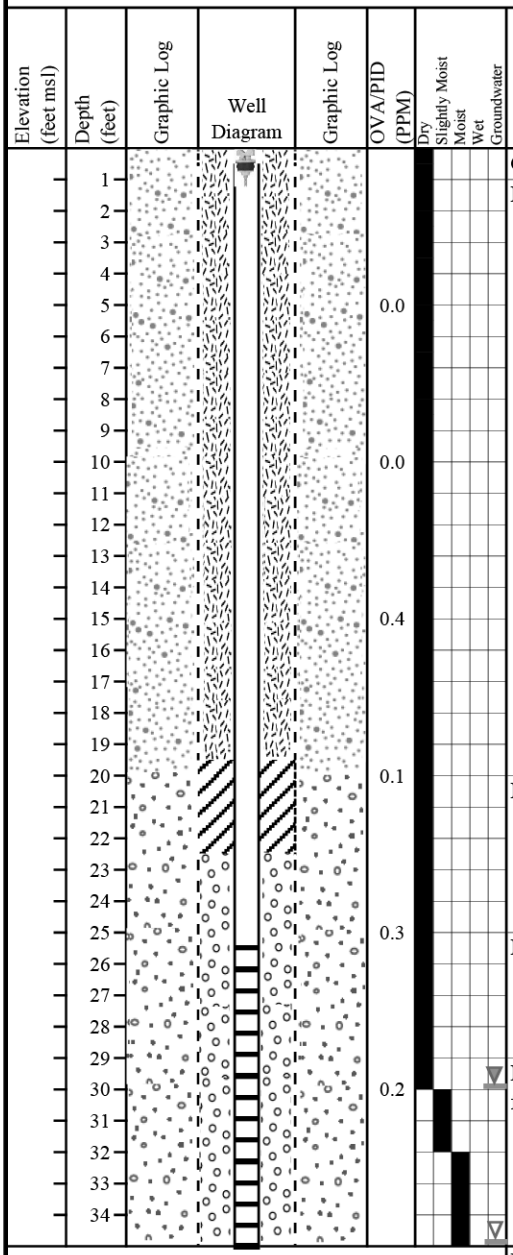

Soil Description
Grass
Blackish red (5R 2/2), dry, moderately micaceous, medium to course sandy, silt
Dusky red (5R 3/4), dry, slightly clayey, silty, fine to course sand
Dark reddish brown (10R 3/4), dry, slightly micaceous, clayey, silty, fine to course sand
Dark reddish brown (10R 3/4), slightly moist to moist, slightly micaceous, clayey, silty, fine to course sand
Boring terminated at 35.0 feet below ground surface.

Legend

- Filter Sand Pack (22.5 - 35.0 feet BGS)
- Bentonite Seal (19.5 - 22.5 feet BGS)
- Bentonite-Cement Grout (0 - 19.5 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay

Notes

Boring terminated at 35.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1106042.709
Easting	=	1569926.689
Top of Casing Elevation	=	1007.12



Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Ground Surface Elevation	=	1007.45
Total Well Depth	=	35.06
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	24.86-34.86
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW22I)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	8.5" & 5.5" Roller Cone	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 29, 2017	**Logged By:**	Thomas V.

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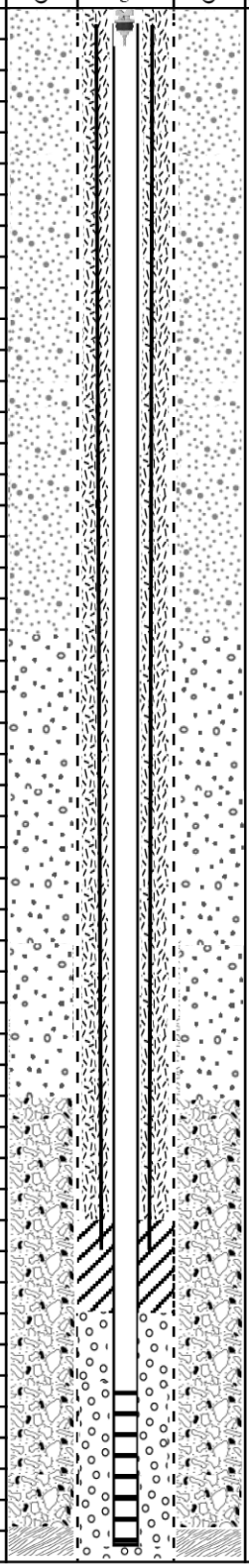

Elevation (feet msl)	Depth (feet)	OVA/PID (PPM)	Dry	Slightly Moist	Moist	Wet	Groundwater	Soil Description
	1							Grass
	2							Blackish red (5R 2/2), dry, moderately micaceous, medium to course sandy, silt
	3							
	4							
	5	NA						
	6							
	7							
	8							
	9							
	10	NA						
	11							
	12							
	13							
	14							
	15	NA						
	16							
	17							
	18							
	19							
	20	NA						Dusky red (5R 3/4), dry, slightly clayey, silty, fine to course sand
	21							
	22							
	23							
	24							
	25	NA						Dark reddish brown (10R 3/4), dry, slightly micaceous, clayey, silty, fine to course sand
	26							
	27							
	28							
	29							
	30	NA					▽	Dark reddish brown (10R 3/4), slightly moist to moist, slightly micaceous, clayey, silty, fine to course sand
	31							
	32							
	33							
	34							
	35	NA					▽	Partially weathered rock sampling as dark reddish brown (10R 3/4), wet, slightly micaceous, clayey, silty, fine to course sand
	36							
	37							
	38							
	39							
	40	NA						Partially weathered rock sampling as moderate brown (5YR 3/4), wet, highly micaceous, fine sandy clayey silt
	41							
	42							
	43							
	44							
	45	NA						
	46							
	47							
	48							
	49							Drill refusal encountered at approximately 50.0 feet below ground surface. Granitic gneiss bedrock.
								Boring terminated at 50.0 feet below ground surface.

Legend


Filter Sand Pack (42.0 - 50.0 feet BGS)


Bentonite Seal (39.0 - 42.0 feet BGS)


Bentonite-Cement Grout (0 - 39.0 feet BGS)


Water Level at Time of Boring


24-Hour Water Level


Sand


Clayey Sand


Silty Sand


Clayey Silt


Sandy Silt


Sandy Clay


Silty Clay


Clay


Silt


Partially Weathered Rock


Bedrock - Metamorphic


Bedrock - Igneous


Bedrock - Sedimentary

Other -

Notes

Boring terminated at 50.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105950.718
Easting	=	1570073.127
Top of Casing Elevation	=	1008.24
Ground Surface Elevation	=	1008.66
Total Well Depth	=	49.72
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	44.52-49.52
6-inch Outer Casing Depth	=	40

FIELD BORING LOG (12430-MW23)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9500 VTR
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 8, 2017	**Logged By:**	Thomas V.

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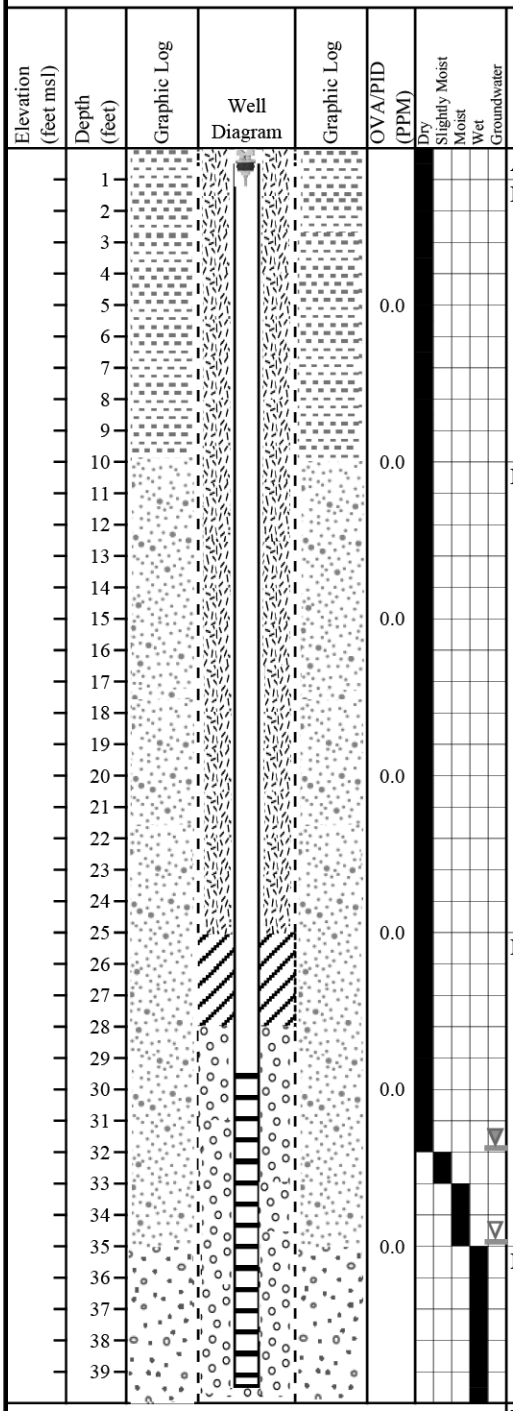


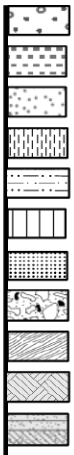
Soil Description
Asphalt
Moderate brown (10R 4/6), dry, clayey silt
Moderate red (5R 4/6), dry, clayey, fine sandy silt
Moderate brown (5YR 3/4), dry to moist, clayey, fine to medium sandy silt
Dark yellowish brown (10YR 4/2), wet, clayey, silty, medium to course sand
Boring terminated at 40.0 feet below ground surface.

Legend

- Filter Sand Pack (26.0 - 40.0 feet BGS)
- Bentonite Seal (23.0 - 26.0 feet BGS)
- Bentonite-Cement Grout (0 - 23.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand

Notes

Boring terminated at 40.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 32.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Northing	=	1105950.718
Easting	=	1570073.127
Top of Casing Elevation	=	1008.24
Ground Surface Elevation	=	1008.66
Total Well Depth	=	39.87
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	29.67-39.67
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW24)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 21, 2017	**Logged By:** Thomas V.

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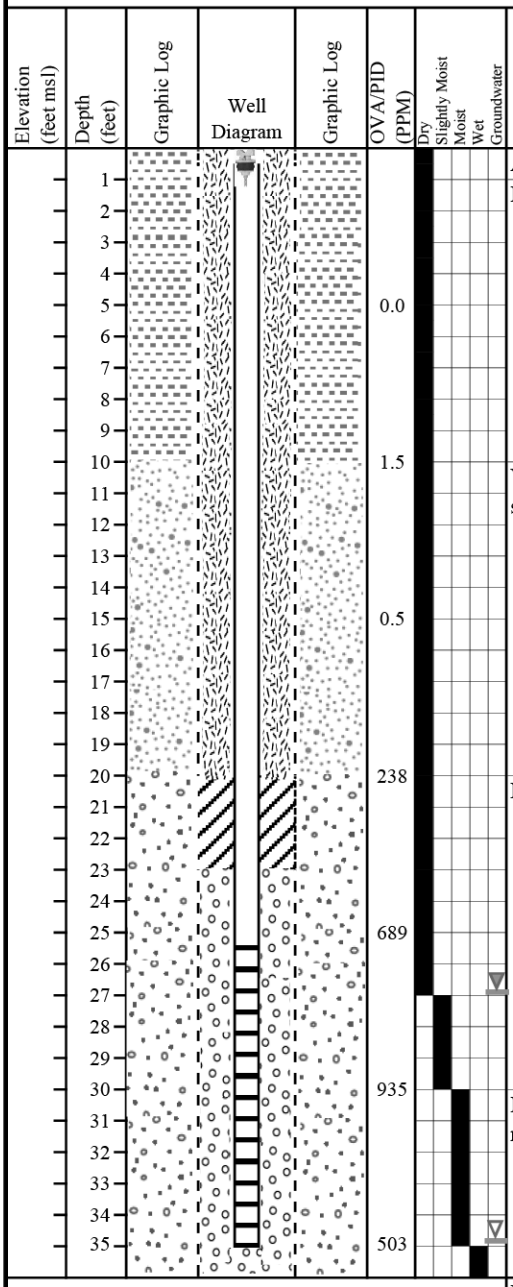


Soil Description
Asphalt
Blackish red (5R 2/2), dry, highly micaceous, fine to medium sandy, clayey, silt
Very dark red (5R 2/6), dry, moderately micaceous, slightly clayey, fine to medium sandy, silt
Moderate brown (5YR 4/4), dry to slightly moist, clayey, silty, fine sand
Dark reddish brown (10R 3/4), moist to wet, moderately micaceous, clayey, silty, fine to medium sand
Boring terminated at 36.0 feet below ground surface.

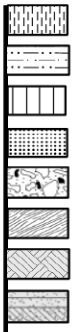
Legend

- Filter Sand Pack (23.0 - 36.0 feet BGS)
- Bentonite Seal (20.0 - 23.0 feet BGS)
- Bentonite-Cement Grout (0 - 20.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt

Notes

Boring terminated at 36.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 27.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105975.615
Easting	=	1569950.706



Sandy Clay
Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Top of Casing Elevation	=	1006.39
Ground Surface Elevation	=	1006.83
Total Well Depth	=	35.25
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	25.05-35.05
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW25)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 7, 2017	**Logged By:** Thomas V.

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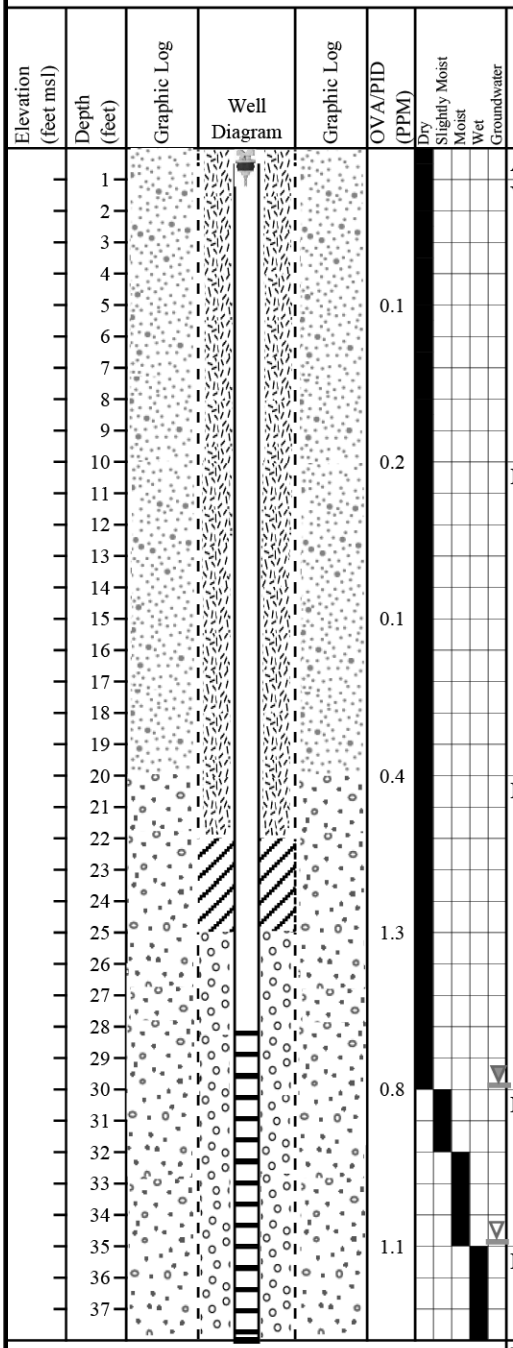


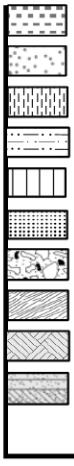
Soil Description
Asphalt
Very dark red (5R 2/6), dry, moderately micaceous, fine to medium sandy silt
Dusky red (5R 3/4), dry, slightly micaceous, clayey, fine to medium sandy silt
Dark reddish brown (10R 3/4), dry, slightly micaceous, clayey, silty, fine sand
Moderate reddish brown (10R 4/6), slightly moist to moist, clayey, silty, fine to course sand
Moderate reddish brown (10R 4/6), wet, clayey, silty, fine to course sand
Boring terminated at 38.0 feet below ground surface.

Legend

- Filter Sand Pack (25.0 - 38.0 feet BGS)
- Bentonite Seal (22.0 - 25.0 feet BGS)
- Bentonite-Cement Grout (0 - 22.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand

Notes

Boring terminated at 38.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



Clayey Silt
Sandy Silt
Sandy Clay
Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Northing	=	1105951.543
Easting	=	1569961.286
Top of Casing Elevation	=	1007.27
Ground Surface Elevation	=	1007.57
Total Well Depth	=	38.2
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	28.00-38.00
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW26)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9530
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 8, 2017	**Logged By:**	Thomas V.

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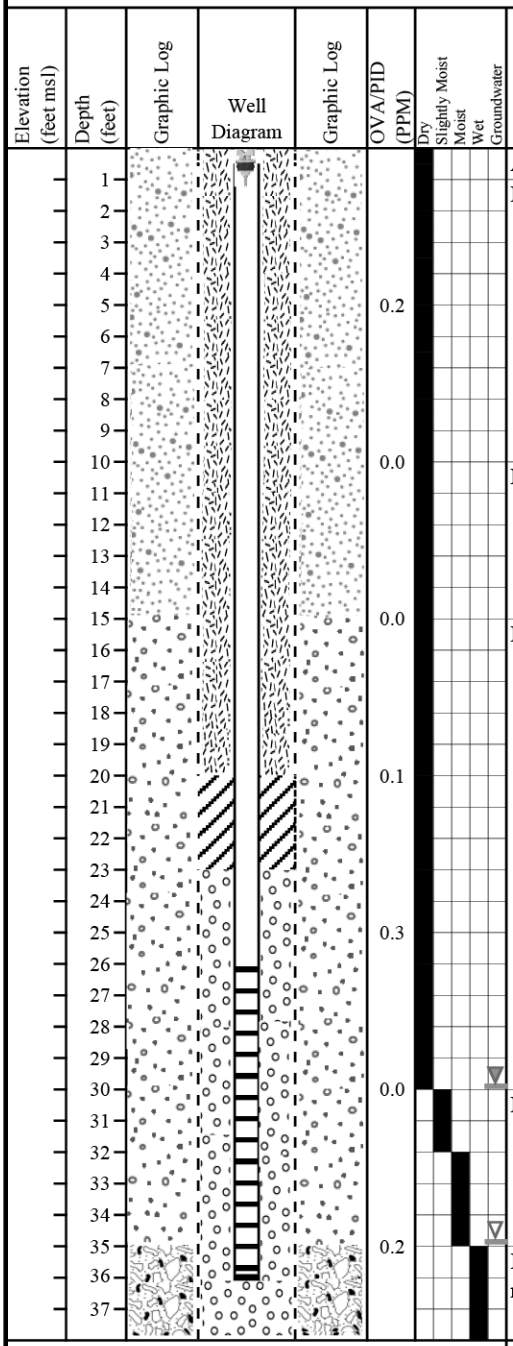


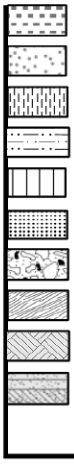
Soil Description
Asphalt
Dusky brown (5YR 2/2), dry, fine to medium sandy silt
Moderate reddish brown (10R 4/6), dry, slightly clayey, fine sandy silt
Dark reddish brown (10R 3/4), dry, silty, fine to medium sand
Dark reddish brown (10R 3/4), slightly moist to moist, silty, fine to medium sand
Partially weathered rock sampling as dark reddish brown (10R 3/4), wet, slightly micaceous, clayey, silty, fine to course sand
Boring terminated at 38.0 feet below ground surface.

Legend

- Filter Sand Pack (26.0 - 38.0 feet BGS)
- Bentonite Seal (20.0 - 23.0 feet BGS)
- Bentonite-Cement Grout (0 - 20.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand

Notes

Boring terminated at 38.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Northing	=	1106036.115
Easting	=	1569963.725
Top of Casing Elevation	=	1007.33
Ground Surface Elevation	=	1007.68
Total Well Depth	=	36.45
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	26.25-36.25
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW26I)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	8.5" & 5.5" Roller Cone	**Drill Rig:**	AMS 9530
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 23, 2017	**Logged By:**	Thomas V.

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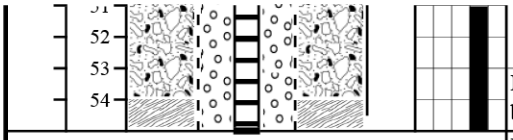
Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry / Slightly Moist / Moist / Wet / Groundwater	Soil Description
	1–5				NA		Asphalt Dusky brown (5YR 2/2), dry, fine to medium sandy silt
	6–10				NA		Moderate reddish brown (10R 4/6), dry, slightly clayey, fine sandy silt
	11–15				NA		Dark reddish brown (10R 3/4), dry, silty, fine to medium sand
	16–20				NA		
	21–25				NA		
	26–30				NA		Dark reddish brown (10R 3/4), slightly moist to moist, silty, fine to medium sand
	31–35				NA		Partially weathered rock sampling as dark reddish brown (10R 3/4), wet, slightly micaceous, clayey, silty, fine to course sand
	36–40				NA		
	41–45				NA		Partially weathered rock sampling as moderate brown (5YR 3/4), wet, moderately micaceous, clayey, silty, fine to medium sand
	46–50				NA		



Drill refusal encountered at approximately 55.0 feet below ground surface. Granitic gneiss bedrock.

Boring terminated at 55.0 feet below ground surface.

Legend

- Filter Sand Pack (48.0 - 55.0 feet BGS)
- Bentonite Seal (45.0 - 48.0 feet BGS)
- Bentonite-Cement Grout (0 - 45.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 55.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1106039.049
Easting	=	1569961.273
Top of Casing Elevation	=	1007.27
Ground Surface Elevation	=	1007.67
Total Well Depth	=	55.11
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	49.91-54.91
6-inch Outer Casing Depth	=	45

FIELD BORING LOG (12430-RW01)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 4.25-inch ID H.S.A	**Drill Rig:** AMS 9530
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 22, 2017	**Logged By:** Thomas V.

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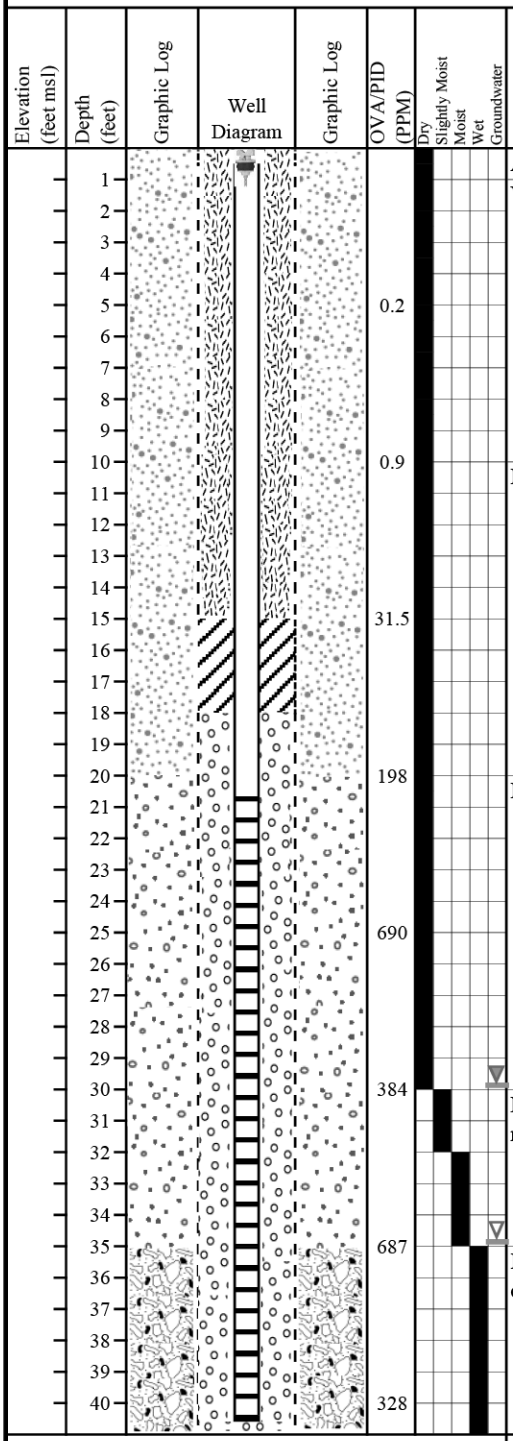


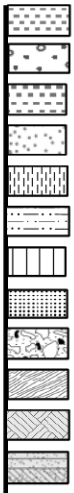
Soil Description
Asphalt
Very dark red (5R 2/6), dry, moderately micaceous, fine to medium sandy silt
Dusky red (5R 3/4), dry, slightly micaceous, clayey, fine to medium sandy silt
Dark reddish brown (10R 3/4), dry, slightly micaceous, clayey, silty, fine sand
Moderate brown (5YR 3/4), slightly moist to moist, slightly micaceous, clayey, silty, fine to medium sand
Partially weathered rock sampling as moderate brown (5YR 3/4), wet, slightly micaceous, clayey, silty, fine to medium sand
Boring terminated at 41.0 feet below ground surface.

Legend

- Filter Sand Pack (18.0 - 41.0 feet BGS)
- Bentonite Seal (15.0 - 18.0 feet BGS)
- Bentonite-Cement Grout (0 - 15.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand

Notes

4-inch diameter recovery well. Boring terminated at 41.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



Clayey Sand
Silty Sand
Clayey Silt
Sandy Silt
Sandy Clay
Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Northing	=	1105966.397
Easting	=	1569958.159
Top of Casing Elevation	=	1006.69
Ground Surface Elevation	=	1007.18
Total Well Depth	=	40.69
Screen Length	=	20
Screen Size	=	0.01
Screened Interval Depth	=	20.49-40.49
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-RW02)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: Direct Push Soil Core	**Drill Rig:** AMS 9530
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 21, 2017	**Logged By:** Thomas V.

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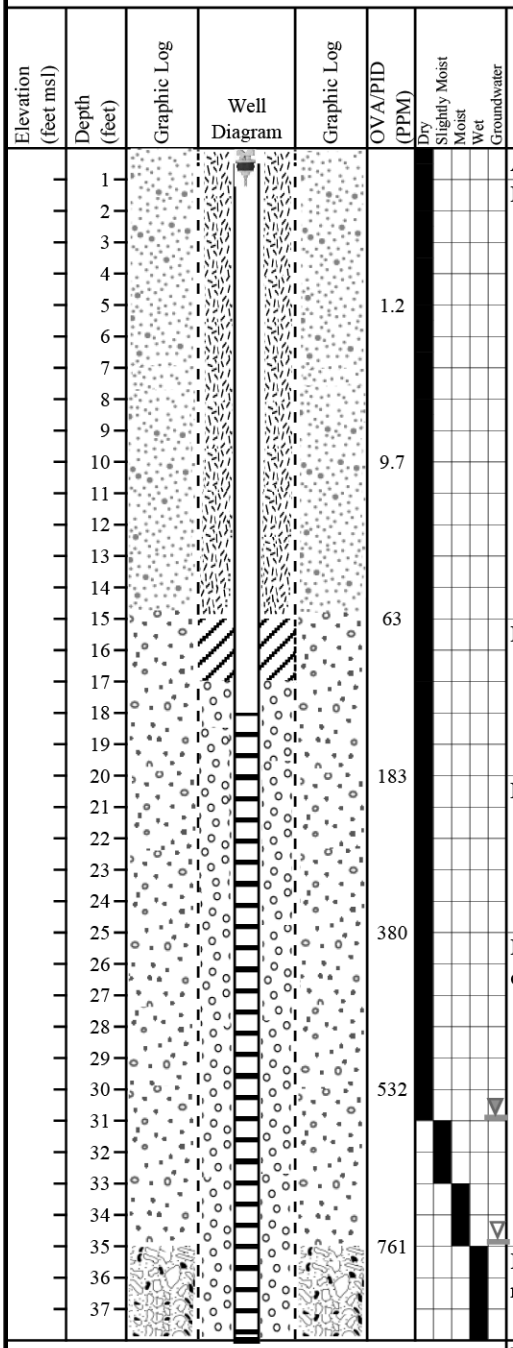


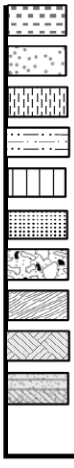
Soil Description
Asphalt
Dark reddish brown (10R 3/4), dry, highly micaceous, clayey, fine to medium sandy silt
Dusky red (5R 3/4), slightly micaceous, dry, clayey, silty, fine sand
Moderate reddish brown (10R 4/6), dry, moderately micaceous, silty, fine to medium sand
Dark reddish brown (10R 3/4), dry to moist, slightly micaceous, clayey, silty, medium to course sand
Partially weathered rock sampling as dark reddish brown (10R 3/4), wet, slightly micaceous, clayey, silty, medium to course sand
Boring terminated at 38.0 feet below ground surface.

Legend

- Filter Sand Pack (17.0 - 38.0 feet BGS)
- Bentonite Seal (15.0 - 17.0 feet BGS)
- Bentonite-Cement Grout (0 - 15.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand

Notes

4-inch diameter recovery well. Boring terminated at 38.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 31.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



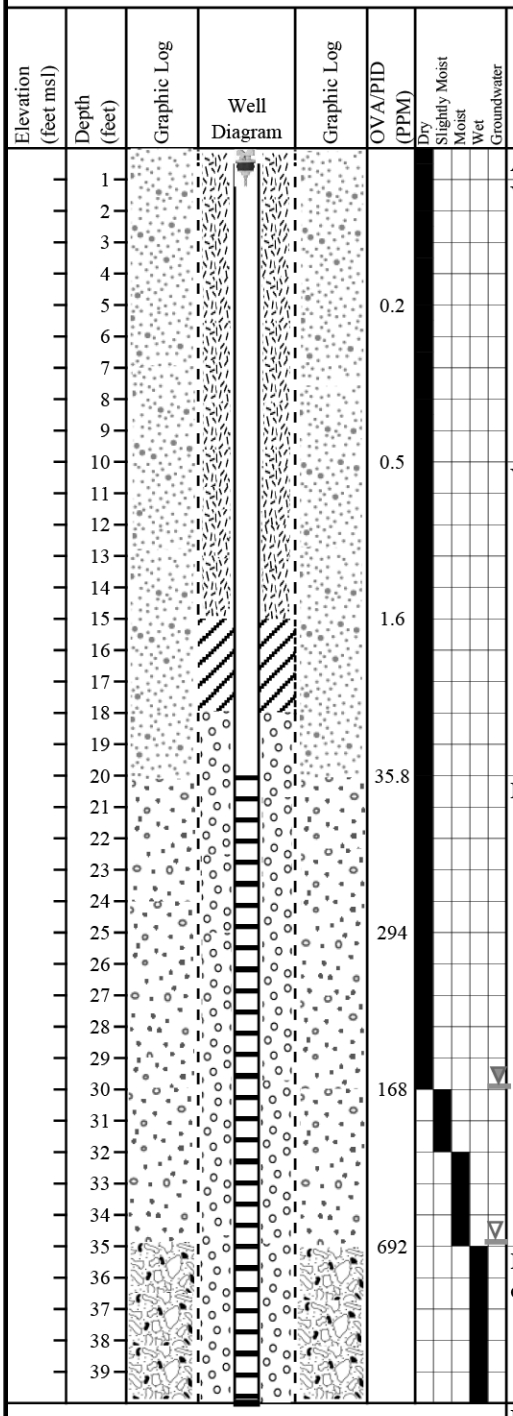
Clayey Silt
Sandy Silt
Sandy Clay
Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Northing	=	1105985.756
Easting	=	1569942.169
Top of Casing Elevation	=	1006.23
Ground Surface Elevation	=	1006.53
Total Well Depth	=	38.08
Screen Length	=	20
Screen Size	=	0.01
Screened Interval Depth	=	17.88-37.88
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-RW03)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: Direct Push Soil Core	**Drill Rig:** AMS 9530
Driller Name: M. Carey/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 21, 2017	**Logged By:** Thomas V.

petra-tech ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS



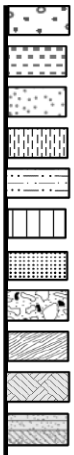
Soil Description
Asphalt
Very dark red (5R 2/6), dry, clayey, fine to medium sandy silt
Very dark red (5R 2/6), dry, moderately micaceous, clayey, fine to course sandy silt
Dark yellowish brown (10YR 4/2), dry to moist, silty, fine to medium sand
Partially weathered rock sampling as blackish red (5R 2/2), wet, moderately micaceous, clayey, silty, fine to course sand
Boring terminated at 40.0 feet below ground surface.

Legend

- Filter Sand Pack (18.0 - 40.0 feet BGS)
- Bentonite Seal (15.0 - 18.0 feet BGS)
- Bentonite-Cement Grout (0 - 15.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand

Notes

4-inch diameter recovery well. Boring terminated at 40.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 30.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



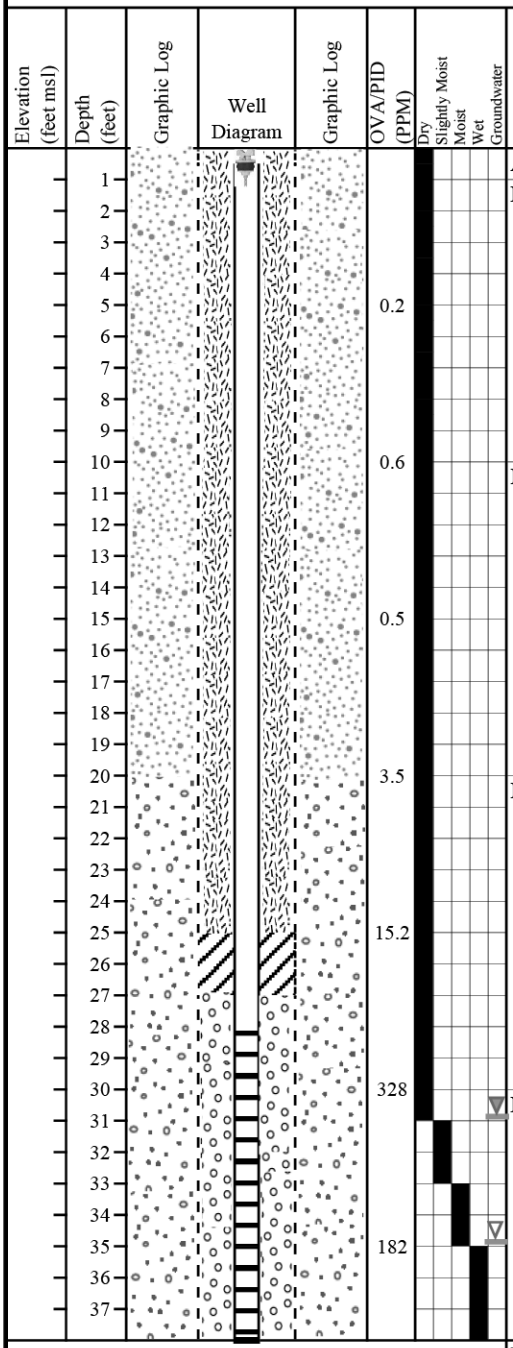
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Northing	=	1105998.36
Easting	=	1569927.85
Top of Casing Elevation	=	1005.90
Ground Surface Elevation	=	1006.17
Total Well Depth	=	40
Screen Length	=	20
Screen Size	=	0.01
Screened Interval Depth	=	19.80-39.80
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW0XR)

Job Name:	Westside Quick Stop	**Job Number:**	J16-232-A
Site Address:	821 West Parker Road, Greenville, South Carolina		
Drill Method:	3.25-inch ID H.S.A	**Drill Rig:**	AMS 9530
Driller Name:	M. Carey/R. Barkley	**Company:**	ERGS, Inc.
Installation Date:	March 7, 2017	**Logged By:**	Thomas V.

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS



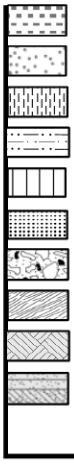
Soil Description
Asphalt
Moderate brown (5YR 4/4), dry, moderately micaceous, fine to medium sandy silt
Dusky red (5R 3/4), dry, slightly micaceous, clayey, fine to medium sandy, silt
Dark reddish brown (10R 3/4), dry, slightly micaceous, clayey, silty, fine sand
Moderate reddish brown (10R 4/6), slightly moist to wet, clayey, silty, fine to course sand
Boring terminated at 38.0 feet below ground surface.

Legend

- Filter Sand Pack (27.0 - 38.0 feet BGS)
- Bentonite Seal (24.0 - 27.0 feet BGS)
- Bentonite-Cement Grout (0 - 24.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand

Notes

Boring terminated at 38.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 31.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.



- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Northing	=	1105941.807
Easting	=	1569953.653
Top of Casing Elevation	=	1007.31
Ground Surface Elevation	=	1007.67
Total Well Depth	=	38.25
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	28.05-38.05
6-inch Outer Casing Depth	=	

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Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106025.898 1569992.992

3. PUBLIC SYSTEM NAME: 12430 - MW04I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 41 - 44 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
53.17 ft.
Date Started: 3/21/2017
Date Completed: 3/23/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 47.97 ft. depth
1008.12 6.0 in. to 40.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 47.97 ft. and 52.97 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 32.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 44.0 ft. to 54.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 41.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/23/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106001.843 1569893.944

3. PUBLIC SYSTEM NAME: 12430 - MW12I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 37 - 40 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
45.63 ft. Date Started: 3/18/2017 Date Completed: 3/20/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 40.43 ft. depth
1005.37 6.0 in. to 40.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 40.43 ft. and 45.43 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 29.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 44.0 ft. to 46.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 37.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/20/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106004.065 1569896.698

3. PUBLIC SYSTEM NAME: 12430 - MW12

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 20 - 23 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
35.69 ft.
Date Started: 3/20/2017
Date Completed: 3/20/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 25.49 ft. depth
1005.35 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 25.49 ft. and 35.49 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 29.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 44.0 ft. to 35.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/20/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105954.887 1569899.114

3. PUBLIC SYSTEM NAME: 12430 - MW14

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 14 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
25.57 ft.
Date Started: 3/6/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 15.37 ft. depth
1000.02 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 15.37 ft. and 25.37 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 14.0 ft. to 24.7 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 11.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC
2435 East North St, Ste 1108-158
Greenville, SC 29615
Level: (A) B C D (circle one)
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105951.681 1569903.625

3. PUBLIC SYSTEM NAME: 12430 - MW14I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 41 - 60 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
67.92 ft.
Date Started: 3/6/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 62.72 ft. depth
1000.11 6.0 in. to 40.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 62.72 ft. and 67.72 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 60.0 ft. to 68.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 57.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

dhec — Healthy People. Healthy Communities.

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105903.442 1569942.091

3. PUBLIC SYSTEM NAME: 12430 - MW15

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 14 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored; Dug / Air Rotary / Driven; Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process; Irrigation / Air Conditioning / Emergency; Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
26.83 ft.
Date Started: 3/6/2017
Date Completed: 3/7/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 16.63 ft. depth
999.88 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 16.63 ft. and 26.63 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 14.0 ft. to 26.3 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 11.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/7/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

dhec — Healthy People. Healthy Communities.

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105901.172 1569944.625

3. PUBLIC SYSTEM NAME: 12430 - MW15I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 50 - 53 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
62.13 ft.
Date Started: 3/3/2017
Date Completed: 3/6/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 56.93 ft. depth
999.88 6.0 in. to 40.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 56.93 ft. and 61.93 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 53.0 ft. to 61.6 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 50.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/6/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105878.821 1569979.285

3. PUBLIC SYSTEM NAME: 12430 - MW16

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 14 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed) 27.71 ft.
Date Started: 3/6/2017
Date Completed: 3/6/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 1000.63: 2.0 in. to 17.51 ft. depth
6.0 in. to 0.0 ft. depth
Height: Below Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 17.51 ft. and 27.51 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 14.0 ft. to 26.9 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 11.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC
2435 East North St, Ste 1108-158
Greenville, SC 29615
Level: (A) B C D (circle one)
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/6/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105876.922 1569983.153

3. PUBLIC SYSTEM NAME: 12430 - MW16I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 54 - 57 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
65.49 ft.
Date Started: 3/3/2017
Date Completed: 3/7/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 60.29 ft. depth
1000.72 6.0 in. to 40.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 60.29 ft. and 65.29 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 57.0 ft. to 64.6 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 54.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/7/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105828.289 1569975.249

3. PUBLIC SYSTEM NAME: 12430 - MW17

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 17 ft BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
28.82 ft.
Date Started: 3/21/2017
Date Completed: 3/22/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 18.62 ft. depth
999.85 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 18.62 ft. and 28.62 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 17.0 ft. to 28.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 14.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/22/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

dhec — Healthy People. Healthy Communities.

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105832.627 1569975.437

3. PUBLIC SYSTEM NAME: 12430 - MW17I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 54 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed) 60.41 ft.
Date Started: 3/20/2017
Date Completed: 3/22/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 1000.01
2.0 in. to 55.21 ft. depth
6.0 in. to 0.0 ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 55.21 ft. and 60.21 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 54.0 ft. to 60.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 51.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC
2435 East North St, Ste 1108-158
Greenville, SC 29615
Level: (A) B C D (circle one)
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/22/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

dhec — Healthy People. Healthy Communities.

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105864.728 1570018.453

3. PUBLIC SYSTEM NAME: 12430 - MW18

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 18 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored; Dug / Air Rotary / Driven; Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process; Irrigation / Air Conditioning / Emergency; Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
29.30 ft.
Date Started: 3/20/2017
Date Completed: 3/20/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 19.1 ft. depth
1002.78 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 19.10 ft. and 29.10 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 24.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 18.0 ft. to 29.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/20/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

DHEC 1903 (07/2003) COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

dhec — Healthy People. Healthy Communities.

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105920.966 1570049.399

3. PUBLIC SYSTEM NAME: 12430 - MW19

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 26 ft BGS

6. TYPE: Mud Rotary | Jetted | Bored
Dug | Air Rotary | Driven
Cable tool | (Auger) | Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential | Public Supply | Process
Irrigation | Air Conditioning | Emergency
Test Well | (Monitor Well) | Replacement

9. WELL DEPTH (completed)
39.69 ft.
Date Started: 3/18/2017
Date Completed: 3/18/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 29.49 ft. depth
1008.24 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 29.49 ft. and 39.49 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 32.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 26.0 ft. to 38.7 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement | Bentonite | (Bentonite/Cement) | Other
Depth: From 0.0 ft. to 23.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible | Jet (shallow) | Turbine
Jet (deep) | Reciprocating | Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/18/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105923.515 1570047.38

3. PUBLIC SYSTEM NAME: 12430 - MW19I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 59 - 62 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
70.68 ft.
Date Started: 3/6/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 65.48 ft. depth
1008.18 6.0 in. to 45.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 65.48 ft. and 70.48 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 32.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 62.0 ft. to 69.7 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 59.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
11005949.72 1570032.02

3. PUBLIC SYSTEM NAME: 12430 - MW20

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 24 - 27 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
40.87 ft.
Date Started: 3/8/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 30.67 ft. depth
1008.01 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft.
Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 30.67 ft. and 40.67 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 32.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 27.0 ft. to 39.9 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 24.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105986.401 1569960.977

3. PUBLIC SYSTEM NAME: 12430 - MW21

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 20 - 23 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
35.14 ft.
Date Started: 3/20/2017
Date Completed: 3/21/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 24.94 ft. depth
1006.73 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 24.94 ft. and 34.94 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 23.0 ft. to 35.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/21/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106042.709 1569926.689

3. PUBLIC SYSTEM NAME: 12430 - MW22

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 19.5 - 22.5 ft BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
35.06 ft.
Date Started: 3/7/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 24.86 ft. depth
1007.12 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 24.86 ft. and 34.86 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 22.5 ft. to 34.5 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 19.5 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106038.956 1569923.081

3. PUBLIC SYSTEM NAME: 12430 - MW22I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 39 - 42 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
49.72 ft.
Date Started: 3/27/2017
Date Completed: 3/29/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 44.52 ft. depth
1007.03 6.0 in. to 40.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 44.52 ft. and 49.52 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 42.0 ft. to 49.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 39.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/29/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105950.718 1570073.127

3. PUBLIC SYSTEM NAME: 12430 - MW23

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 26 ft BGS

6. TYPE: Mud Rotary | Jetted | Bored
Dug | Air Rotary | Driven
Cable tool | (Auger) | Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential | Public Supply | Process
Irrigation | Air Conditioning | Emergency
Test Well | (Monitor Well) | Replacement

9. WELL DEPTH (completed)
39.87 ft.
Date Started: 3/7/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 29.67 ft. depth
1008.24 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 29.67 ft. and 39.67 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 32.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 26.0 ft. to 38.6 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement | Bentonite | (Bentonite/Cement) | Other
Depth: From 0.0 ft. to 23.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible | Jet (shallow) | Turbine
Jet (deep) | Reciprocating | Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105975.615 1569950.706

3. PUBLIC SYSTEM NAME: 12430 - MW24

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 20 - 23 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
35.25 ft.
Date Started: 3/20/2017
Date Completed: 3/21/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 25.05 ft. depth
1006.39 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 25.05 ft. and 35.05 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 27.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 23.0 ft. to 35.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/21/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105951.543 1569961.286

3. PUBLIC SYSTEM NAME: 12430 - MW25

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 22 - 25 ft BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
38.20 ft.
Date Started: 3/7/2017
Date Completed: 3/7/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 28 ft. depth
1007.27 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 28.00 ft. and 38.00 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 25.0 ft. to 37.3 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 22.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/7/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106036.115 1569963.725

3. PUBLIC SYSTEM NAME: 12430 - MW26

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 20 - 23 ft BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
36.45 ft.
Date Started: 3/8/2017
Date Completed: 3/8/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 26.25 ft. depth
1007.33 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 26.25 ft. and 36.25 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 26.0 ft. to 36.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 20.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/8/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1106039.049 1569961.273

3. PUBLIC SYSTEM NAME: 12430 - MW26I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 45 - 48 ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
55.11 ft. Date Started: 3/21/2017 Date Completed: 3/23/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 49.91 ft. depth
1007.27 6.0 in. to 45.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 5
Set Between: 49.91 ft. and 54.91 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 48.0 ft. to 55.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 45.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/23/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105966.397 1569958.159

3. PUBLIC SYSTEM NAME: 12430 - RW01

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 15 - 18 ft BGS

6. TYPE: Mud Rotary | Jetted | Bored
Dug | Air Rotary | Driven
Cable tool | (Auger) | Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential | Public Supply | Process
Irrigation | Air Conditioning | Emergency
Test Well | (Monitor Well) | Replacement

9. WELL DEPTH (completed)
40.69 ft.
Date Started: 3/21/2017
Date Completed: 3/22/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 20.49 ft. depth
1006.69 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 20
Set Between: 20.49 ft. and 40.49 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 30.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 18.0 ft. to 40.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement | Bentonite | (Bentonite/Cement) | Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible | Jet (shallow) | Turbine
Jet (deep) | Reciprocating | Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/22/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105985.756 1569942.169

3. PUBLIC SYSTEM NAME: 12430 - RW02

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 15 - 17 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
38.08 ft.
Date Started: 3/21/2017
Date Completed: 3/21/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 17.88 ft. depth
1006.23 6.0 in. to 0.0 ft. depth
Height: Below Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 20
Set Between: 17.88 ft. and 37.88 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 31.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 17.0 ft. to 38.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/21/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

dhec — Healthy People. Healthy Communities.

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105998.36 1569927.85

3. PUBLIC SYSTEM NAME: 12430 - RW03

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 11 - 18 ft BGS

6. TYPE: Mud Rotary / Jetted / Bored / Dug / Air Rotary / Driven / Cable tool / (Auger) / Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE: Residential / Public Supply / Process / Irrigation / Air Conditioning / Emergency / Test Well / (Monitor Well) / Replacement

9. WELL DEPTH (completed)
40.00 ft.
Date Started: 3/21/2017
Date Completed: 3/21/2017

10. CASING: (Threaded) / Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 1005.9
2.0 in. to 19.8 ft. depth
6.0 in. to 0.0 ft. depth
Height: Below Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 20
Set Between: 19.80 ft. and 39.80 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 31.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 18.0 ft. to 40.0 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement / Bentonite / (Bentonite/Cement) / Other
Depth: From 0.0 ft. to 15.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible / Jet (shallow) / Turbine
Jet (deep) / Reciprocating / Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC
2435 East North St, Ste 1108-158
Greenville, SC 29615
Level: (A) B C D (circle one)
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/21/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: SCDHEC
(last) (first)
Address: 2600 Bull Street
City: Columbia State: SC Zip:
Phone:

2. LOCATION OF WELL: COUNTY: Greenville
Name: Westside Quick Stop
Address: 821 West Parker Road
City: Greenville, SC
1105941.807 1569953.653

3. PUBLIC SYSTEM NAME: 12430 - MW0XR

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal 50 - 27 ft BGS

6. TYPE: Mud Rotary Jetted Bored
Dug Air Rotary Driven
Cable tool (Auger) Other

7. PERMIT NUMBER: MWA # 26386 UST # 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (Monitor Well) Replacement

9. WELL DEPTH (completed)
38.25 ft.
Date Started: 3/7/2017
Date Completed: 3/7/2017

10. CASING: (Threaded) Welded
Diameter: 2"
Type: PVC
Top of Casing Elevation 2.0 in. to 28.05 ft. depth
1007.31 6.0 in. to 0.0 ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: PVC Diameter: 2"
Slot/Gauge: 0.010" Length: 10
Set Between: 28.05 ft. and 38.05 ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL 31.00 ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) Sand
Installed from: 27.0 ft. to 39.5 ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From 0.0 ft. to 24.0 ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley CERT NO.: 934
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: 3/7/17

If D Level Driller, provide supervising driller's name.
Michael Carey 1920D
Daniel Burch 2175D
Ryan McCormack 2174D

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Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/24/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: Cloudy / 51°F

Well Development Method

Surge Block (X) Submersible Pump (X) Air Lifting ( )
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us			10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers (X) Solid Flight Augers ( ) Direct Push ( )
Air Rotary ( ) Mud Rotary (X) Sonic ( )

Monitoring Well ID# 04I Well Casing Diameter 2 inches Borehole Diameter ~6 inches
Depth to Ground Water (DGW) 31.56 ft. Screen Length/Slot Size 5 ft./ 0.01 in.
3/23/17
Total Well Depth (TWD) 52.94 ft. Screen Interval 48 ft. to 53 ft.
Length of water column (LWC=TWD-DGW) 21.38 ft. Type of Drilling Fluids used: Baroid EZ Mud
Total Gallons of Water Removed: 16 gals. Drilling Fluids recovered ~5 gals.

Time (military)	0652	0705	0714	0725	0739	0748	
pH (s.u.)*	5.75	5.69	5.65	5.66	5.66	5.67	
Specific Conductivity (mmhos/cm)*	92	61	45	40	42	43	
Water Temperature (C)*	19.56	18.99	18.93	18.92	18.92	18.92	
Turbidity (NTU) *	>1000	162	83	19.27	13.16	9.54	
Odor	Slight	→					
Cumulative Gallons of Water Removed	5 gals	8 gals	10 gals	12 gals	14 gals	16 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/23/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 54°F/Clear

Well Development Method

Surge Block (X) Submersible Pump (X) Air Lifting ( )
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

3/20/17, Hollow Stem Augers (X) Solid Flight Augers ( ) Direct Push ( )
Air Rotary ( ) Mud Rotary ( ) Sonic ( )

Monitoring Well ID# 12 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 28.92 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 35.40 ft. Screen Interval 25 ft. to 35 ft.
Length of water column (LWC=TWD-DGW) 6.48 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 11 gals. Drilling Fluids recovered N/A gals.

Time (military)	1317	1326	1335	1342	1355		
pH (s.u.)*	5.61	5.82	5.84	5.85	5.85		
Specific Conductivity (mmhos/cm)*	145	82	60	60	61		
Water Temperature (C)*	17.31	17.44	17.45	17.46	17.46		
Turbidity (NTU) *	>1000	246	85	21.38	8.46		
Odor	Strong	→	→	→	→		
Cumulative Gallons of Water Removed	5 gals	7 gals	9 gals	10 gals	11 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/23/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 57.9°F / Clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	✓	23 us			0 NTU	✓
7.00 su	✓	84 us	✓		1 NTU	
10.00 su	✓	447 us	✓		10 NTU	
		1413 us	✓		100 NTU	✓

Drilling Method

3/20/17

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ☒ Sonic ○

Monitoring Well ID# 12I Well Casing Diameter 2 inches Borehole Diameter ~6 inches
Depth to Ground Water (DGW) 28.01 ft. Screen Length/Slot Size 5 ft./ 0.01 in.
Total Well Depth (TWD) 45.35 ft. Screen Interval 40 ft. to 45 ft.
Length of water column (LWC=TWD-DGW) 17.34 ft. Type of Drilling Fluids used: Baroid EZ Mud
Total Gallons of Water Removed: 15 gals. Drilling Fluids recovered ~5 gals.

Time (military)	1505	1523	1539	1559	1609	1625	
pH (s.u.)*	5.05	5.39	5.41	5.41	5.42	5.43	
Specific Conductivity (mmhos/cm)*	92	48	36	40	40	39	
Water Temperature (C)*	18.05	18.32	18.41	18.45	18.45	18.46	
Turbidity (NTU) *	+1000	501	392	46	18.01	9.31	
Odor	Strong	→					
Cumulative Gallons of Water Removed	5 gals	8 gals	10 gals	12 gals	14 gals	15 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Carey Date: 3/23/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/8/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 71°F/Clear

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 14 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 21.92 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/8/17 Total Well Depth (TWD) 25.21 ft. Screen Interval 15 ft. to 25 ft.
Length of water column (LWC=TWD-DGW) 3.29 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 6 gals. Drilling Fluids recovered N/A gals.

Time (military)	1409	1426	1435	1442	1451		
pH (s.u.)*	5.48	5.26	5.15	5.15	5.16		
Specific Conductivity (mmhos/cm)*	82	63	50	50	50		
Water Temperature (C)*	17.48	17.29	17.20	17.20	17.21		
Turbidity (NTU) *	842	165	22.17	11.01	9.28		
Odor	Strong →						
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Cy Date: 3/8/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/20/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 66°F / Clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter serial no. 24113677

Turbidity meter serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ☒ Sonic ○

Monitoring Well ID# 14I
Well Casing Diameter 2 inches
Borehole Diameter ~6 inches
Depth to Ground Water (DGW) 23.49 ft.
Screen Length/Slot Size 5 ft./ 0.01 in.
3/8/17 Total Well Depth (TWD) 67.72 ft.
Screen Interval 63 ft. to 68 ft.
Length of water column (LWC=TWD-DGW) 44.23 ft.
Type of Drilling Fluids used: Baroid Ez Mud
Total Gallons of Water Removed: 18 gals.
Drilling Fluids recovered ~5 gals.

Time (military)	1515	1526	1539	1548	1555	1612	
pH (s.u.)*	6.51	5.92	5.69	5.61	5.60	5.61	
Specific Conductivity (mmhos/cm)*	195	83	42	35	35	38	
Water Temperature (C)*	18.46	16.93	16.42	16.44	16.44	16.43	
Turbidity (NTU) *	+1000	362	188	72	15.18	9.12	
Odor	mod →						
Cumulative Gallons of Water Removed	5 gals	8 gals	12 gals	14 gals	16 gals	18 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Carey Date: 3/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/7/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 53°F / Cloudy / Windy

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2233570	serial no. 2413677	serial no. 24113677	serial no. AG36883
4.01 su X	23 us		0 NTU X
7.00 su X	84 us X		1 NTU
10.00 su X	447 us X		10 NTU
	1413 us X		100 NTU X

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 15 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 22.09 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/7/17 Total Well Depth (TWD) 26.56 ft. Screen Interval 16 ft. to 26 ft.
Length of water column (LWC=TWD-DGW) 4.47 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 7 gals. Drilling Fluids recovered N/A gals.

Time (military)	0750	0755	0800	0810	0820	0830	
pH (s.u.)*	5.61	5.09	5.24	5.21	5.22	5.21	
Specific Conductivity (mmhos/cm)*	62	35	28	25	25	26	
Water Temperature (C)*	17.15	18.46	16.92	16.15	16.45	16.17	
Turbidity (NTU) *	>1000	101	>1000	263	12.84	9.25	
Odor	None →						
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	7 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 3/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/7/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 71°F / Cldy / windy

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ☒ Sonic ○

Monitoring Well ID# 15I Well Casing Diameter 2 inches Borehole Diameter ~6 inches

3/6/17 Depth to Ground Water (DGW) 22.46 ft. Screen Length/Slot Size 5 ft./ 0.01 in.

Total Well Depth (TWD) 61.95 ft. Screen Interval 58 ft. to 63 ft.

Length of water column (LWC=TWD-DGW) 39.49 ft. Type of Drilling Fluids used: Baroid EZ mud

Total Gallons of Water Removed: 19 gals. Drilling Fluids recovered ~5 gals.

Time (military)	1252	1309	1326	1341	1359	1406	1421
pH (s.u.)*	5.58	5.92	5.06	5.00	5.00	5.02	5.01
Specific Conductivity (mmhos/cm)*	183	126	48	25	21	25	21
Water Temperature (C)*	17.46	16.98	16.85	16.82	16.81	16.80	16.82
Turbidity (NTU) *	H000	861	492	82	18.46	13.11	9.94
Odor	none	→					
Cumulative Gallons of Water Removed	5 gals	10 gals	15 gals	16 gals	17 gals	18 gals	19 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Carey Date: 3/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/6/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 48°F / cldy / rainy

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 16 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 23.10 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/6/17 Total Well Depth (TWD) 27.33 ft. Screen Interval 17 ft. to 27 ft.
Length of water column (LWC=TWD-DGW) 4.23 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 6 gals. Drilling Fluids recovered N/A gals.

Time (military)	0915	0926	0935	0941	0958		
pH (s.u.)*	5.23	5.11	5.05	5.04	5.04		
Specific Conductivity (mmhos/cm)*	48	36	29	29	29		
Water Temperature (C)*	18.01	16.97	16.52	16.51	16.51		
Turbidity (NTU) *	600	179	62	14.00	9.01		
Odor	none	→	→	→	→		
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: M Cy Date: 3/6/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/20/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions:

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2233570	serial no. 2413677	serial no. 24113677	serial no. AG36883
4.01 su X	23 us		0 NTU X
7.00 su X	84 us X		1 NTU
10.00 su X	447 us X		10 NTU
	1413 us X		100 NTU X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ☒ Sonic ○

Monitoring Well ID# 16I Well Casing Diameter 2 inches Borehole Diameter ~6 inches
Depth to Ground Water (DGW) 23.46 ft. Screen Length/Slot Size 5 ft./ 0.01 in.
3/17/16 Total Well Depth (TWD) 65.11 ft. Screen Interval ~~60~~ ft. to 65 ft.
Length of water column (LWC=TWD-DGW) 41.65 ft. Type of Drilling Fluids used: Baroid EZ Mud
Total Gallons of Water Removed: 24 gals. Drilling Fluids recovered ~5 gals.

Time (military)	1350	1400	1410	1420	1430	1440	1450
pH (s.u.)*	5.41	5.35	5.29	5.26	5.27	5.27	5.28
Specific Conductivity (mmhos/cm)*	105	82	40	29	25	25	24
Water Temperature (C)*	17.01	17.16	16.99	16.95	16.92	16.70	16.92
Turbidity (NTU) *	+1000	385	+1000	46	392	16.85	8.51
Odor	None	→	→	→	→	→	→
Cumulative Gallons of Water Removed	5 gals	10 gals	15 gals	18 gals	21 gals	23 gals	24 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/22/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 66°F / Clear / Windy

Well Development Method

Surge Block: X
Submersible Pump: X
Air Lifting: ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su: X
7.00 su: X
10.00 su: X

Conductivity meter
serial no. 2413677
23 us:
84 us: X
447 us: X
1413 us: X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU: X
1 NTU: X
10 NTU:
100 NTU: X

Drilling Method

Hollow Stem Augers: X
Solid Flight Augers: ○
Direct Push: ○
Air Rotary: ○
Mud Rotary: ○
Sonic: ○

Monitoring Well ID# 17
Well Casing Diameter 2 inches
Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 22.46 ft.
Screen Length/Slot Size 10 ft./ 0.01 in.
3/22/17 Total Well Depth (TWD) 28.42 ft.
Screen Interval 18 ft. to 28 ft.
Length of water column (LWC=TWD-DGW) 5.96 ft.
Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 5 gals.
Drilling Fluids recovered N/A. gals.

Time (military)	1505	1519	1526	1531	1540		
pH (s.u.)*	6.21	5.93	5.45	5.46	5.46		
Specific Conductivity (mmhos/cm)*	90	38	26	25	28		
Water Temperature (C)*	17.23	17.06	17.15	17.15	17.16		
Turbidity (NTU) *	890	680	493	28.11	9.08		
Odor	none	→	→	→	→		
Cumulative Gallons of Water Removed	1 gals	2 gals	3 gals	4 gals	5 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: M Cy
Date: 3/31/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/23/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 61°F/Clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 17I Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 22.47 ft. Screen Length/Slot Size 5 ft./ 0.01 in.
3/22/17 Total Well Depth (TWD) 59.98 ft. Screen Interval 55 ft. to 60 ft.
Length of water column (LWC=TWD-DGW) 37.51 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 26 gals. Drilling Fluids recovered N/A gals.

Time (military)	1701	1720	1735	1748	1759	1809	
pH (s.u.)*	5.90	5.62	5.40	5.41	5.40	5.40	
Specific Conductivity (mmhos/cm)*	80	61	42	35	35	35	
Water Temperature (C)*	15.99	16.05	16.14	16.14	16.15	16.17	
Turbidity (NTU) *	>1000	705	600	105	32	8.50	
Odor	None →						
Cumulative Gallons of Water Removed	5 gals	8 gals	12 gals	18 gals	23 gals	26 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 3/23/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/23/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 48°F / clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 18 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 24.91 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/20/17 Total Well Depth (TWD) 28.94 ft. Screen Interval 19 ft. to 29 ft.
Length of water column (LWC=TWD-DGW) 4.03 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 6 gals. Drilling Fluids recovered N/A. gals.

Time (military)	0952	1001	1004	1020	1042		
pH (s.u.)*	5.31	5.12	5.05	5.05	5.02		
Specific Conductivity (mmhos/cm)*	80	38	25	25	26		
Water Temperature (C)*	17.13	16.90	16.88	16.88	16.89		
Turbidity (NTU) *	392	149	70	25.14	9.05		
Odor	none →						
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Cy Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/18/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 73°F cldy/windy.

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 19 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 31.48 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/18/17 Total Well Depth (TWD) 39.32 ft. Screen Interval 30 ft. to 40 ft.
Length of water column (LWC=TWD-DGW) 8.44 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 7 gals. Drilling Fluids recovered N/A gals.

Time (military)	1600	1612	1627	1638	1645	1659	
pH (s.u.)*	5.66	5.13	5.01	5.00	5.01	4.99	
Specific Conductivity (mmhos/cm)*	105	139	42	38	38	39	
Water Temperature (C)*	18.53	18.51	18.64	18.80	18.81	18.81	
Turbidity (NTU) *	>1000	805	190	45	14.03	9.21	
Odor	none	→					
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	7 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: M Cy Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/18/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 54°F cloudy

Well Development Method

Surge Block: X
Submersible Pump: X
Air Lifting: ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers: X
Solid Flight Augers: ○
Direct Push: ○
Air Rotary: ○
Mud Rotary: X
Sonic: ○

Monitoring Well ID# 19I
Well Casing Diameter 2 inches
Borehole Diameter ~6 inches
Depth to Ground Water (DGW) 32.50 ft.
Screen Length/Slot Size 5 ft./ 0.01 in.
3/8/17 Total Well Depth (TWD) 70.31 ft.
Screen Interval 65 ft. to 70 ft.
Length of water column (LWC=TWD-DGW) 37.81 ft.
Type of Drilling Fluids used: Baroid EZ mud
Total Gallons of Water Removed: 28 gals.
Drilling Fluids recovered ~5 gals.

Time (military)	0802	0821	0835	0846	0901	0921	0938
pH (s.u.)*	6.31	5.92	5.77	5.77	5.76	5.79	5.78
Specific Conductivity (mmhos/cm)*	105	32	25	21	20	20	21
Water Temperature (C)*	18.01	18.11	17.82	17.86	17.85	17.85	17.85
Turbidity (NTU) *	+1000	245	83	27.06	21.23	13.50	9.12
Odor	none	→					
Cumulative Gallons of Water Removed	10 gals	15 gals	20 gals	22 gals	24 gals	26 gals	28 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: M Cy
Date: 3/18/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/23/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 51°F / clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2233570	serial no. 2413677	serial no. 24113677	serial no. AG36883
4.01 su ✓	23 us		0 NTU ✓
7.00 su ✓	84 us ✓		1 NTU
10.00 su ✓	447 us ✓		10 NTU
	1413 us ✓		100 NTU ✓

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 20 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 32.47 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/8/17 Total Well Depth (TWD) 40.48 ft. Screen Interval 30 ft. to 40 ft.
Length of water column (LWC=TWD-DGW) 8.01 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 7 gals. Drilling Fluids recovered N/A gals.

Time (military)	1139	1146	1155	1209	1220		
pH (s.u.)*	5.49	5.36	5.30	5.34	5.34		
Specific Conductivity (mmhos/cm)*	38	29	25	25	24		
Water Temperature (C)*	17.05	17.61	18.15	18.45	18.16		
Turbidity (NTU) *	>1000	813	52	18.99	9.81		
Odor	Mod	~	~	~	→		
Cumulative Gallons of Water Removed	2 gals	4 gals	5 gals	6 gals	7 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 3/23/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/22/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 64°F / Clear / windy

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

3/21/2017: Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 21 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 24.16 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 34.71 ft. Screen Interval 25 ft. to 35 ft.
Length of water column (LWC=TWD-DGW) 5.55 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 8 gals. Drilling Fluids recovered N/A gals.

Time (military)	1306	1319	1328	1340	1349	1358	
pH (s.u.)*	5.42	5.31	5.29	5.27	5.26	5.27	
Specific Conductivity (mmhos/cm)*	82	38	26	20	20	21	
Water Temperature (C)*	17.56	18.03	18.14	18.14	18.15	18.16	
Turbidity (NTU) *	721	380	146	72	23.15	9.92	
Odor	Strong	→	→	→	→	→	
Cumulative Gallons of Water Removed	2 gals	4 gals	5 gals	6 gals	7 gals	8 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: M. Carey Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/8/17
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 73°F / Clear.

Well Development Method

Surge Block: X
Submersible Pump: X
Air Lifting: ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su: X
7.00 su: X
10.00 su: X

Conductivity meter
serial no. 2413677
23 us:
84 us: X
447 us: X
1413 us: X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU: X
1 NTU:
10 NTU:
100 NTU: X

Drilling Method

Hollow Stem Augers: X
Solid Flight Augers: ○
Direct Push: ○
Air Rotary: ○
Mud Rotary: ○
Sonic: ○

Monitoring Well ID# 22
Well Casing Diameter 2 inches
Borehole Diameter ~7.5 inches
3/8/17 Depth to Ground Water (DGW) 28.01 ft.
Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 34.73 ft.
Screen Interval 25 ft. to 35 ft.
Length of water column (LWC=TWD-DGW) 6.72 ft.
Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 7 gals.
Drilling Fluids recovered N/A gals.

Time (military)	1615	1628	1635	1646	1659	1708	
pH (s.u.)*	4.92	5.03	5.15	5.15	5.16	5.16	
Specific Conductivity (mmhos/cm)*	80	30	32	29	29	29	
Water Temperature (C)*	18.05	18.61	18.73	18.91	18.92	18.92	
Turbidity (NTU) *	1000	360	490	82	36	9.00	
Odor	None	→					
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	7 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Cy
Date: 3/8/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/30/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: ~62°F / Cloudy

Well Development Method

Surge Block: X
Submersible Pump: X
Air Lifting: ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2233570	serial no. 2413677	serial no. 24113677	serial no. AG36883
4.01 su X	23 us		0 NTU X
7.00 su X	84 us X		1 NTU
10.00 su X	447 us X		10 NTU
	1413 us X		100 NTU X

Drilling Method

3/29/17. Hollow Stem Augers: X
Solid Flight Augers: ○
Direct Push: ○
Air Rotary: ○
Mud Rotary: ○
Sonic: ○

Monitoring Well ID# 22I
Well Casing Diameter 2 inches
Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 30.05 ft.
Screen Length/Slot Size 5 ft./ 0.01 in.
Total Well Depth (TWD) 49.47 ft.
Screen Interval 45 ft. to 50 ft.
Length of water column (LWC=TWD-DGW) 19.42 ft.
Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 17 gals.
Drilling Fluids recovered N/A gals.

Time (military)	0721	0736	0755	0821	0840	0859	
pH (s.u.)*	6.87	6.32	6.41	6.25	6.25	6.27	
Specific Conductivity (mmhos/cm)*	103	75	68	60	60	62	
Water Temperature (C)*	16.35	17.05	17.91	17.90	17.91	17.92	
Turbidity (NTU) *	328	545	480	50	18.05	9.14	
Odor	None →						
Cumulative Gallons of Water Removed	5 gals	8 gals	10 gals	12 gals	14 gals	17 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature]
Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/8/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 71°F / Clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 23 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 31.51 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
3/8/17 - Total Well Depth (TWD) 39.45 ft. Screen Interval 30 ft. to 40 ft.
Length of water column (LWC=TWD-DGW) 7.94 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 6 gals. Drilling Fluids recovered N/A - gals.

Time (military)	1503	1521	1532	1534	1546		
pH (s.u.)*	5.66	5.21	4.95	4.93	4.92		
Specific Conductivity (mmhos/cm)*	38	29	24	25	24		
Water Temperature (C)*	17.31	17.94	18.00	18.00	18.01		
Turbidity (NTU) *	+1000	926	145	62	9.11		
Odor	Strong	→	→	→	→		
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 3/8/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/22/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions:

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter	Conductivity meter	Temperature meter	Turbidity meter
serial no. 2233570	serial no. 2413677	serial no. 24113677	serial no. AG36883
4.01 su X	23 us		0 NTU X
7.00 su X	84 us X		1 NTU
10.00 su X	447 us X		10 NTU
	1413 us X		100 NTU X

Drilling Method

3/21/2017
Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 24 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 30.06 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 34.81 ft. Screen Interval 25 ft. to 35 ft.
Length of water column (LWC=TWD-DGW) 4.75 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 7 gals. Drilling Fluids recovered N/A, gals.

Time (military)	1621	1638	1646	1701	1715	1729	
pH (s.u.)*	5.61	5.39	5.15	5.14	5.15	5.16	
Specific Conductivity (mmhos/cm)*	61	52	48	40	40	42	
Water Temperature (C)*	16.85	16.32	16.16	16.15	16.15	16.17	
Turbidity (NTU) *	>1000	452	138	492	65	10	
Odor	Strong	→	→	→	→		
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	7 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer. Free-product noted in development water.

Driller Signature: [signature] Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/8/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 52° F/Cloudy

Well Development Method

Surge Block X Submersible Pump X Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

3/7/2017 Hollow Stem Augers X Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 25 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 29.49 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 37.90 ft. Screen Interval 28 ft. to 38 ft.
Length of water column (LWC=TWD-DGW) 8.41 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 6 gals. Drilling Fluids recovered N/A gals.

Time (military)	0726	0735	0746	0759	0818		
pH (s.u.)*	6.05	6.11	6.16	6.17	6.17		
Specific Conductivity (mmhos/cm)*	62	35	30	30	30		
Water Temperature (C)*	17.56	16.99	16.91	16.90	16.92		
Turbidity (NTU) *	652	321	80	28.00	9.18		
Odor	Slight	→	→	→	→		
Cumulative Gallons of Water Removed	2 gals	3 gals	4 gals	5 gals	6 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: M. Carey Date: 3/8/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/8/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 70 °F / Clear

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

3/8/17 Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 26 Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 29.96 ft. Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 36.10 ft. Screen Interval 26 ft. to 36 ft.
Length of water column (LWC=TWD-DGW) 6.14 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 5 gals. Drilling Fluids recovered MA gals.

Time (military)	1721	1735	1746	1759	1812		
pH (s.u.)*	6.38	6.25	6.25	6.27	6.27		
Specific Conductivity (mmhos/cm)*	42	35	30	30	30		
Water Temperature (C)*	16.38	17.01	17.15	17.15	17.16		
Turbidity (NTU) *	+1000	483	272	25.32	9.82		
Odor	None						
Cumulative Gallons of Water Removed	1 gals	2 gals	3 gals	4 gals	5 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 3/8/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/24/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 53°F / Cloudy

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us ___
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU ___
10 NTU ___
100 NTU X

Drilling Method

3/23/17
Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 26I
Well Casing Diameter 2 inches
Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 30.11 ft.
Screen Length/Slot Size 5 ft./ 0.01 in.
3/28
Total Well Depth (TWD) 54.71 ft.
Screen Interval 50 ft. to 55 ft.
Length of water column (LWC=TWD-DGW) 24.60 ft.
Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 15 gals.
Drilling Fluids recovered N/A gals.

Time (military)	0810	0821	0835	0846	0859	0910	0928
pH (s.u.)*	5.77	6.01	6.21	6.22	6.23	6.25	6.25
Specific Conductivity (mmhos/cm)*	138	60	42	37	38	39	39
Water Temperature (C)*	16.72	16.88	17.04	17.13	17.15	17.15	17.16
Turbidity (NTU) *	>1000	925	180	27.36	18.51	12.43	9.01
Odor	none						
Cumulative Gallons of Water Removed	5 gals	8 gals	10 gals	12 gals	13 gals	14 gals	15 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: [signature] Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/22/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 60°F / Clear

Well Development Method

Surge Block (X) Submersible Pump (X) Air Lifting ( )
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter serial no. 24113677

Turbidity meter serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

3/22/17 Hollow Stem Augers (X) Solid Flight Augers ( ) Direct Push ( )
Air Rotary ( ) Mud Rotary ( ) Sonic ( )

Monitoring Well ID# RW01 Well Casing Diameter 4 inches Borehole Diameter ~8.5 inches
Depth to Ground Water (DGW) 31.46 ft. Screen Length/Slot Size 20 ft./ 0.01 in.
Total Well Depth (TWD) 40.20 ft. Screen Interval 20 ft. to 40 ft.
Length of water column (LWC=TWD-DGW) 8.74 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 25 gals. Drilling Fluids recovered N/A gals.

Time (military)	1100	1115	1130	1145	1200	1215	
pH (s.u.)*	5.34	5.17	5.02	5.00	5.01	5.01	
Specific Conductivity (mmhos/cm)*	72	48	37	30	30	32	
Water Temperature (C)*	17.51	16.92	16.18	16.18	16.17	16.17	
Turbidity (NTU) *	480	399	680	145	92	10	
Odor	Strong →						
Cumulative Gallons of Water Removed	5 gals	10 gals	15 gals	18 gals	22 gals	25 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer. Sheen noted.

Driller Signature: [signature] Date: 3/3/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/22/2017.
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: Sunny / Clear

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

3/21/2017
Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW02 Well Casing Diameter 2 inches Borehole Diameter ~8.5 inches
Depth to Ground Water (DGW) 31.46 ft. Screen Length/Slot Size 20 ft./ 0.01 in.
Total Well Depth (TWD) 37.78 ft. Screen Interval 18 ft. to 38 ft.
Length of water column (LWC=TWD-DGW) 6.32 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 25 gals. Drilling Fluids recovered N/A . gals.

Time (military)	0745	0810	0829	0850	0912	0935	0952
pH (s.u.)*	7.46	6.29	6.17	6.15	6.13	6.15	6.17
Specific Conductivity (mmhos/cm)*	192	83	67	52	45	45	46
Water Temperature (C)*	20.31	19.99	19.43	19.62	19.15	19.15	19.16
Turbidity (NTU) *	>1000	482	379	148	21.62	13.84	9.18
Odor	Strong						
Cumulative Gallons of Water Removed	5 gals	10 gals	15 gals	20 gals	23 gals	24 gals	25 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer. FP Noted in purge water.

Driller Signature: Mark Cy Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/22/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 60°F / Clear

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

3/21/2017
Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# RW03 Well Casing Diameter 2 inches Borehole Diameter ~8.5 inches
Depth to Ground Water (DGW) 29.16 ft. Screen Length/Slot Size 20 ft./ 0.01 in.
Total Well Depth (TWD) 39.91 ft. Screen Interval 20 ft. to 40 ft.
Length of water column (LWC=TWD-DGW) 10.75 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 24 gals. Drilling Fluids recovered N/A gals.

Time (military)	1013	1022	1041	1052	1058	1108	1126
pH (s.u.)*	7.21	6.03	6.01	6.25	6.27	6.26	6.27
Specific Conductivity (mmhos/cm)*	183	126	73	69	68	65	67
Water Temperature (C)*	17.99	17.21	17.38	17.46	17.50	17.50	17.51
Turbidity (NTU) *	+1000	603	192	38	25.11	12.34	8.92
Odor	Strong	→	→	→	→	→	→
Cumulative Gallons of Water Removed	5 gals	10 gals	15 gals	20 gals	22 gals	23 gals	24 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Cy Date: 5/5/17

Well Development Field Form

Facility Name: WESTSIDE QUICK STOP - GREENVILLE, SC
Site ID#: 12430 / UMW #26386
Date: 3/7/2017
Field Personnel: R. Barkley / M. Carey / R. McCormack / T. Vaughn
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. Barkley / M. Carey / R. McCormack
Driller's Certification Number: 1920
Weather Conditions: 71°F Cloudy

Well Development Method

Surge Block ☒ Submersible Pump ☒ Air Lifting ○
* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

3/7/2017
Hollow Stem Augers ☒ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# OXR
Well Casing Diameter 2 inches
Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 31.46 ft.
Screen Length/Slot Size 10 ft./ 0.01 in.
Total Well Depth (TWD) 37.89 ft.
Screen Interval 28 ft. to 38 ft.
Length of water column (LWC=TWD-DGW) 6.43 ft.
Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 8 gals.
Drilling Fluids recovered N/A gals.

Time (military)	1448	1502	1521	1536	1548	1559	
pH (s.u.)*	6.27	6.31	6.47	6.47	6.48	6.47	
Specific Conductivity (mmhos/cm)*	80	39	35	25	35	35	
Water Temperature (C)*	16.01	16.15	16.15	16.18	16.17	16.17	
Turbidity (NTU) *	904	300	150	85	16.30	9.00	
Odor	Strong	→	→	→	→	→	
Cumulative Gallons of Water Removed	2 gals	4 gals	5 gals	6 gals	7 gals	8 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Mark Cy Date: 3/5/17

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX F

AQUIFER CHARACTERIZATION DATA

D H E C
PROMOTE PROTECT PROSPER

Summary of Slug Test
Underground Storage Tank Management Division

Site Data

UST Permit #: 12430 County: Greenville

Facility Name: Westside Quick Stop Date Performed: 05/09/2017

Slug Data

See Appendix D Table X Figure _____ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by Solinst Level-Logger
[Hermit Data Logger, Manually with Water Level Indicator, etc. (list method)].

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in Well(s) Number	12430-MW16	12430-MW16I	12430-MW19	12430-MW19I
Time Performed (military)	1145	1215	1030	1115
Static Water Level (feet)	21.22 ft BTOC	21.25 ft BTOC	28.85 ft BTOC	28.73 ft BTOC
Initial Rise/Drawdown in Well (+/- feet)	1.333 / 1.802	2.298 / 2.264	1.747 / 2.190	2.053 / 1.673
Radius of Well Casing (feet)	0.083	0.083	0.083	0.083
Effective Radius of Well (feet)	0.3125	0.25	0.3125	0.25
Static Saturated Aquifer Thickness (feet)	6.11	43.86	10.47	41.58
Length of Well Screen (feet)	10.00	5.00	10.00	5.00

Calculations

See Appendix D Table X Figure _____ for calculations (complete as appropriate).

The method for Aquifer calculations was Bouwer & Rice (i.e. Bouwer-Rice, Cooper, etc.).

The Aquifer is ☐ confined ☐ semi-confined ☑ water table (check as appropriate).

A hydraulic gradient of 0.0011sh;0.0006d

Calculated values by well were as follows:

Slug Test Conducted in Well(s) Number	12430-MW16	12430-MW16I	12430-MW19	12430-MW19I
Thickness of Aquifer (feet)	75	75	75	75
Hydraulic Conductivity (feet/ year)	635.20 / 625.16	308.34 / 133.37	77.55 / 77.83	544.56 / 420.09
Effective Porosity (%)	0.27	0.27	0.27	0.27
Soil Type (i.e., silty sand, clay, etc.)	fine sandy silt	fine sandy silt	fine sandy silt	fine sandy silt
Seepage Velocity (feet/ year)	2.64 / 2.60	0.69 / 0.30	0.32 / 0.32	1.21 / 0.93

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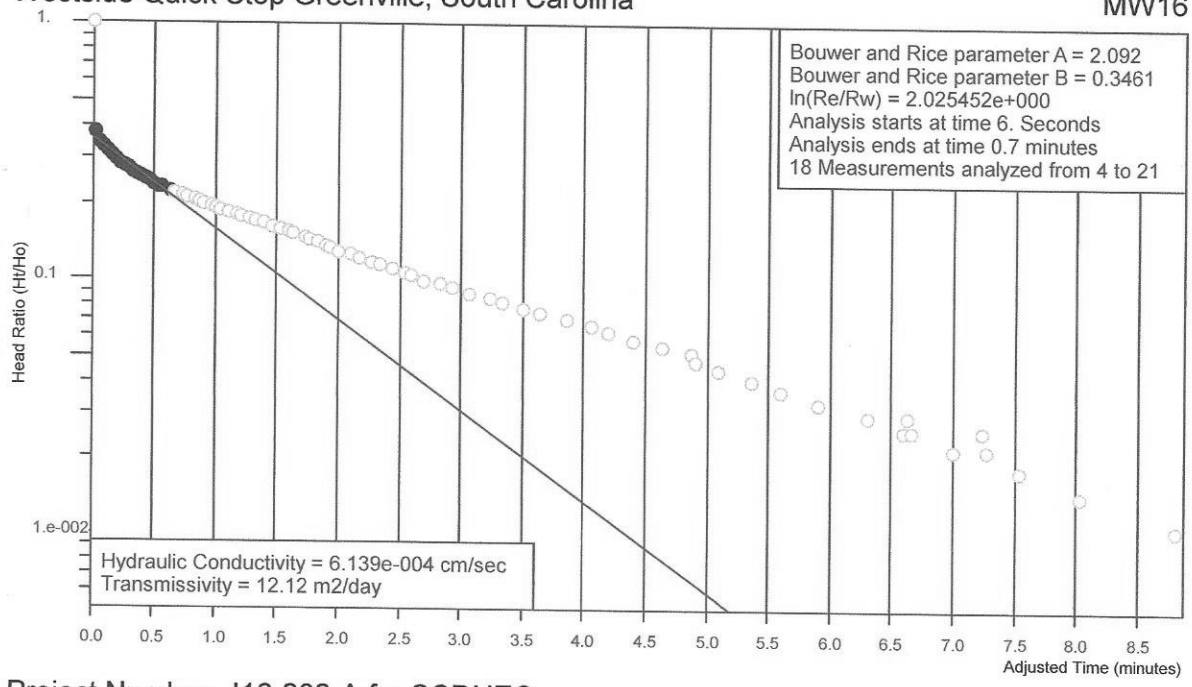
Slug In 05/09/2017

Westside Quick Stop Greenville, South Carolina

Bouwer and Rice Graph

MW16



Project Number: J16-232-A for SCDHEC

Analysis by Starpoint Software

Ho is 1.333 feet at 4. Seconds

Slug In

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW16
Aquifer Thickness:	75. feet
Screen Length:	10. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	21.22 feet
Water Table to Screen Bottom:	6.11 feet
Anisotropy Ratio:	1.
Time Adjustment:	4. Seconds

Test starts with trial 2
There are 82 time and drawdown measurements
Maximum head is 1.333 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-4.	21.22	0.	0.
2	2.	-2.	20.28	0.944	0.7082
3	4.	0.	19.89	1.333	1.
4	6.	2.	20.72	0.502	0.3766
5	8.	4.	20.76	0.457	0.3428
6	10.	6.	20.78	0.443	0.3323
7	12.	8.	20.8	0.423	0.3173
8	14.	10.	20.81	0.408	0.3061
9	16.	12.	20.83	0.393	0.2948
10	18.	14.	20.84	0.379	0.2843
11	20.	16.	20.85	0.369	0.2768
12	22.	18.	20.86	0.364	0.2731
13	24.	20.	20.87	0.354	0.2656
14	26.	22.	20.88	0.344	0.2581
15	28.	24.	20.88	0.339	0.2543
16	30.	26.	20.89	0.329	0.2468
17	32.	28.	20.9	0.325	0.2438
18	34.	30.	20.91	0.315	0.2363
19	36.	32.	20.91	0.31	0.2326
20	38.	34.	20.91	0.305	0.2288
21	42.	38.	20.93	0.295	0.2213
22	44.	40.	20.93	0.29	0.2176
23	48.	44.	20.93	0.285	0.2138
24	50.	46.	20.94	0.28	0.2101
25	54.	50.	20.95	0.275	0.2063
26	56.	52.	20.95	0.27	0.2026
27	58.	54.	20.95	0.265	0.1988
28	62.	58.	20.96	0.26	0.195
29	64.	60.	20.96	0.256	0.192
30	66.	62.	20.97	0.251	0.1883
31	70.	66.	20.97	0.246	0.1845
32	74.	70.	20.98	0.241	0.1808
33	76.	72.	20.98	0.236	0.177

34	80.	76.	20.99	0.231	0.1733
35	84.	80.	20.99	0.226	0.1695
36	88.	84.	21.	0.221	0.1658
37	92.	88.	21.	0.216	0.162
38	96.	92.	21.01	0.211	0.1583
39	100.	96.	21.01	0.206	0.1545
40	102.	98.	21.02	0.201	0.1508
41	108.	104.	21.02	0.196	0.147
42	110.	106.	21.03	0.192	0.144
43	114.	110.	21.03	0.187	0.1403
44	118.	114.	21.04	0.182	0.1365
45	120.	116.	21.04	0.177	0.1328
46	124.	120.	21.05	0.172	0.129
47	130.	126.	21.05	0.167	0.1253
48	134.	130.	21.06	0.162	0.1215
49	140.	136.	21.06	0.157	0.1178
50	144.	140.	21.07	0.152	0.114
51	150.	146.	21.07	0.147	0.1103
52	156.	152.	21.08	0.142	0.1065
53	160.	156.	21.08	0.138	0.1035
54	166.	162.	21.09	0.132	9.902e-002
55	174.	170.	21.09	0.128	9.602e-002
56	180.	176.	21.1	0.123	9.227e-002
57	188.	184.	21.1	0.118	8.852e-002
58	198.	194.	21.11	0.113	8.477e-002
59	204.	200.	21.11	0.108	8.102e-002
60	214.	210.	21.12	0.103	7.727e-002
61	222.	218.	21.12	9.8e-002	7.352e-002
62	236.	232.	21.13	9.3e-002	6.977e-002
63	248.	244.	21.13	8.8e-002	6.602e-002
64	256.	252.	21.14	8.3e-002	6.227e-002
65	268.	264.	21.14	7.8e-002	5.851e-002
66	282.	278.	21.15	7.3e-002	5.476e-002
67	296.	292.	21.15	6.9e-002	5.176e-002
68	298.	294.	21.16	6.4e-002	4.801e-002
69	310.	306.	21.16	5.9e-002	4.426e-002
70	326.	322.	21.17	5.4e-002	4.051e-002
71	340.	336.	21.17	4.9e-002	3.676e-002
72	358.	354.	21.18	4.4e-002	3.301e-002
73	382.	378.	21.18	3.9e-002	2.926e-002
74	400.	396.	21.19	3.4e-002	2.551e-002
75	402.	398.	21.18	3.9e-002	2.926e-002
76	404.	400.	21.19	3.4e-002	2.551e-002
77	424.	420.	21.19	2.9e-002	2.176e-002
78	438.	434.	21.19	3.4e-002	2.551e-002
79	440.	436.	21.19	2.9e-002	2.176e-002
80	456.	452.	21.2	2.4e-002	1.8e-002
81	486.	482.	21.2	1.9e-002	1.425e-002
82	532.	528.	21.21	1.4e-002	1.05e-002

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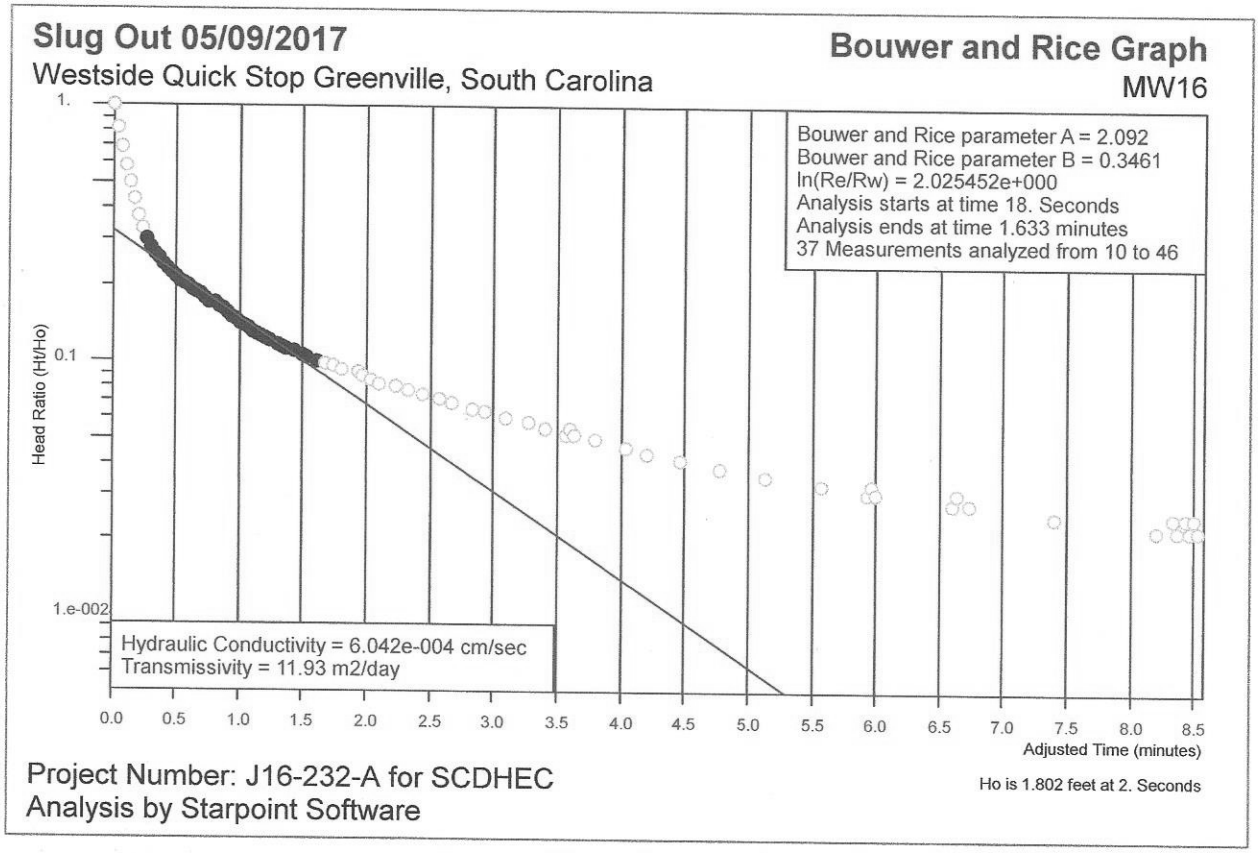
Slug Out 05/09/2017
Westside Quick Stop Greenville, South Carolina
Bouwer and Rice Graph
MW16
Bouwer and Rice parameter A = 2.092
Bouwer and Rice parameter B = 0.3461
ln(Re/Rw) = 2.025452e+000
Analysis starts at time 18. Seconds
Analysis ends at time 1.633 minutes
37 Measurements analyzed from 10 to 46
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 6.042e-004 cm/sec
Transmissivity = 11.93 m2/day
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 1.802 feet at 2. Seconds

Slug Out

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW16
Aquifer Thickness:	75. feet
Screen Length:	10. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	21.22 feet
Water Table to Screen Bottom:	6.11 feet
Anisotropy Ratio:	1.
Time Adjustment:	2. Seconds

Test starts with trial 1
There are 87 time and drawdown measurements
Maximum head is 1.802 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-2.	21.22	0.	0.
2	2.	0.	23.02	1.802	1.
3	4.	2.	22.71	1.487	0.8252
4	6.	4.	22.47	1.25	0.6937
5	8.	6.	22.28	1.058	0.5871
6	10.	8.	22.12	0.896	0.4972
7	12.	10.	21.99	0.773	0.429
8	14.	12.	21.89	0.67	0.3718
9	16.	14.	21.82	0.596	0.3307
10	18.	16.	21.76	0.542	0.3008
11	20.	18.	21.73	0.507	0.2814
12	22.	20.	21.7	0.478	0.2653
13	24.	22.	21.67	0.453	0.2514
14	26.	24.	21.65	0.433	0.2403
15	28.	26.	21.63	0.414	0.2297
16	30.	28.	21.62	0.399	0.2214
17	32.	30.	21.61	0.389	0.2159
18	34.	32.	21.59	0.374	0.2075
19	36.	34.	21.59	0.365	0.2026
20	38.	36.	21.57	0.355	0.197
21	40.	38.	21.57	0.345	0.1915
22	42.	40.	21.56	0.34	0.1887
23	44.	42.	21.55	0.33	0.1831
24	46.	44.	21.54	0.32	0.1776
25	48.	46.	21.53	0.31	0.172
26	50.	48.	21.53	0.306	0.1698
27	52.	50.	21.52	0.296	0.1643
28	54.	52.	21.51	0.291	0.1615
29	56.	54.	21.5	0.281	0.1559
30	58.	56.	21.49	0.271	0.1504
31	60.	58.	21.49	0.266	0.1476
32	62.	60.	21.48	0.256	0.1421
33	64.	62.	21.47	0.251	0.1393

34	66.	64.	21.47	0.246	0.1365
35	68.	66.	21.46	0.237	0.1315
36	70.	68.	21.45	0.232	0.1287
37	72.	70.	21.45	0.227	0.126
38	74.	72.	21.44	0.222	0.1232
39	76.	74.	21.44	0.217	0.1204
40	80.	78.	21.43	0.212	0.1176
41	82.	80.	21.43	0.207	0.1149
42	84.	82.	21.42	0.202	0.1121
43	88.	86.	21.42	0.197	0.1093
44	92.	90.	21.41	0.192	0.1065
45	94.	92.	21.41	0.187	0.1038
46	98.	96.	21.4	0.182	0.101
47	102.	100.	21.4	0.178	9.878e-002
48	106.	104.	21.39	0.173	9.6e-002
49	110.	108.	21.39	0.168	9.323e-002
50	118.	116.	21.38	0.163	9.046e-002
51	120.	118.	21.38	0.158	8.768e-002
52	124.	122.	21.37	0.153	8.491e-002
53	128.	126.	21.37	0.148	8.213e-002
54	136.	134.	21.36	0.143	7.936e-002
55	142.	140.	21.36	0.138	7.658e-002
56	148.	146.	21.35	0.133	7.381e-002
57	156.	154.	21.35	0.128	7.103e-002
58	162.	160.	21.34	0.123	6.826e-002
59	172.	170.	21.34	0.118	6.548e-002
60	178.	176.	21.33	0.114	6.326e-002
61	188.	186.	21.33	0.109	6.049e-002
62	198.	196.	21.32	0.104	5.771e-002
63	206.	204.	21.32	9.9e-002	5.494e-002
64	216.	214.	21.31	9.4e-002	5.216e-002
65	218.	216.	21.32	9.9e-002	5.494e-002
66	220.	218.	21.31	9.4e-002	5.216e-002
67	230.	228.	21.31	8.9e-002	4.939e-002
68	244.	242.	21.3	8.4e-002	4.661e-002
69	254.	252.	21.3	7.9e-002	4.384e-002
70	270.	268.	21.29	7.4e-002	4.107e-002
71	288.	286.	21.29	6.9e-002	3.829e-002
72	310.	308.	21.28	6.4e-002	3.552e-002
73	336.	334.	21.28	5.9e-002	3.274e-002
74	358.	356.	21.27	5.5e-002	3.052e-002
75	360.	358.	21.28	5.9e-002	3.274e-002
76	362.	360.	21.27	5.5e-002	3.052e-002
77	398.	396.	21.27	5.e-002	2.775e-002
78	400.	398.	21.27	5.5e-002	3.052e-002
79	406.	404.	21.27	5.e-002	2.775e-002
80	446.	444.	21.27	4.5e-002	2.497e-002
81	494.	492.	21.26	4.e-002	2.22e-002
82	502.	500.	21.27	4.5e-002	2.497e-002
83	504.	502.	21.26	4.e-002	2.22e-002
84	508.	506.	21.27	4.5e-002	2.497e-002
85	510.	508.	21.26	4.e-002	2.22e-002
86	512.	510.	21.27	4.5e-002	2.497e-002
87	514.	512.	21.26	4.e-002	2.22e-002

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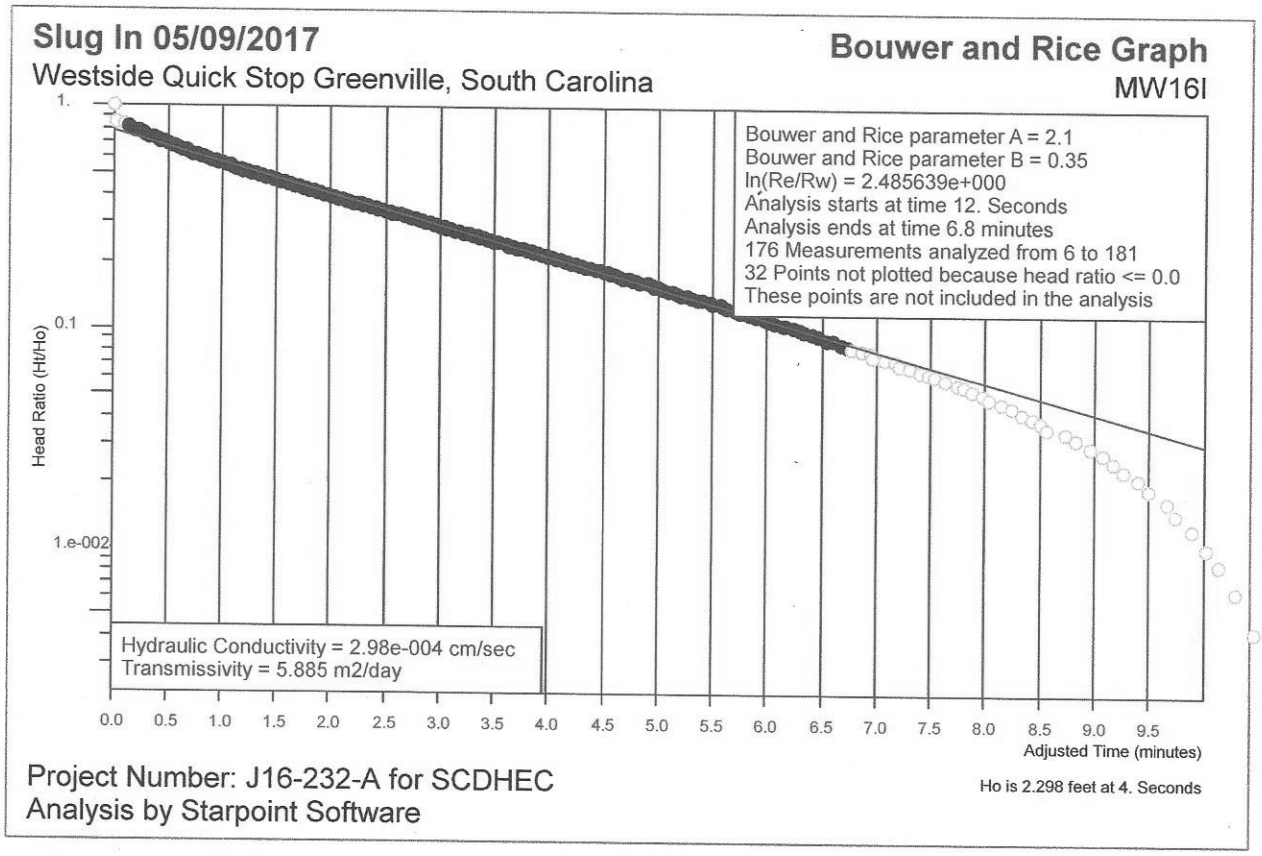
Slug In 05/09/2017
Bouwer and Rice Graph
Westside Quick Stop Greenville, South Carolina
MW16I
Bouwer and Rice parameter A = 2.1
Bouwer and Rice parameter B = 0.35
ln(Re/Rw) = 2.485639e+000
Analysis starts at time 12. Seconds
Analysis ends at time 6.8 minutes
176 Measurements analyzed from 6 to 181
32 Points not plotted because head ratio <= 0.0
These points are not included in the analysis
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 2.98e-004 cm/sec
Transmissivity = 5.885 m2/day
0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 2.298 feet at 4. Seconds

Slug In

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW16I
Aquifer Thickness:	75. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.25 feet
Static Water Level:	21.25 feet
Water Table to Screen Bottom:	43.86 feet
Anisotropy Ratio:	1.
Time Adjustment:	4. Seconds

Test starts with trial 2
There are 251 time and drawdown measurements
Maximum head is 2.298 feet
Minimum head is -7.9e-002 feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-4.	21.25	0.	0.
2	2.	-2.	20.31	0.94	0.4091
3	4.	0.	18.95	2.298	1.
4	6.	2.	19.31	1.944	0.846
5	10.	6.	19.34	1.909	0.8307
6	12.	8.	19.38	1.87	0.8138
7	14.	10.	19.41	1.835	0.7985
8	16.	12.	19.45	1.801	0.7837
9	18.	14.	19.48	1.771	0.7707
10	20.	16.	19.51	1.742	0.7581
11	22.	18.	19.54	1.712	0.745
12	24.	20.	19.56	1.688	0.7346
13	26.	22.	19.59	1.658	0.7215
14	28.	24.	19.62	1.634	0.7111
15	30.	26.	19.64	1.609	0.7002
16	32.	28.	19.67	1.584	0.6893
17	34.	30.	19.68	1.565	0.681
18	36.	32.	19.71	1.54	0.6701
19	38.	34.	19.73	1.516	0.6597
20	40.	36.	19.75	1.496	0.651
21	42.	38.	19.77	1.476	0.6423
22	44.	40.	19.8	1.452	0.6319
23	46.	42.	19.82	1.432	0.6232
24	48.	44.	19.84	1.412	0.6144
25	50.	46.	19.85	1.397	0.6079
26	52.	48.	19.87	1.378	0.5997
27	54.	50.	19.89	1.363	0.5931
28	56.	52.	19.91	1.343	0.5844
29	58.	54.	19.93	1.324	0.5762
30	60.	56.	19.94	1.309	0.5696
31	62.	58.	19.96	1.294	0.5631
32	64.	60.	19.98	1.274	0.5544
33	66.	62.	19.99	1.26	0.5483

34	68.	64.	20.	1.245	0.5418
35	70.	66.	20.02	1.23	0.5352
36	72.	68.	20.04	1.215	0.5287
37	74.	70.	20.05	1.201	0.5226
38	76.	72.	20.06	1.191	0.5183
39	78.	74.	20.07	1.176	0.5117
40	80.	76.	20.09	1.161	0.5052
41	82.	78.	20.1	1.146	0.4987
42	84.	80.	20.11	1.137	0.4948
43	86.	82.	20.13	1.122	0.4883
44	88.	84.	20.14	1.107	0.4817
45	90.	86.	20.15	1.097	0.4774
46	92.	88.	20.17	1.083	0.4713
47	94.	90.	20.18	1.073	0.4669
48	96.	92.	20.19	1.063	0.4626
49	98.	94.	20.2	1.048	0.456
50	100.	96.	20.21	1.038	0.4517
51	102.	98.	20.22	1.028	0.4473
52	104.	100.	20.24	1.014	0.4413
53	106.	102.	20.25	1.004	0.4369
54	108.	104.	20.26	0.994	0.4326
55	110.	106.	20.27	0.984	0.4282
56	112.	108.	20.28	0.974	0.4238
57	114.	110.	20.29	0.964	0.4195
58	116.	112.	20.3	0.95	0.4134
59	118.	114.	20.31	0.94	0.4091
60	120.	116.	20.32	0.935	0.4069
61	122.	118.	20.32	0.925	0.4025
62	124.	120.	20.34	0.915	0.3982
63	126.	122.	20.34	0.905	0.3938
64	128.	124.	20.36	0.895	0.3895
65	130.	126.	20.36	0.886	0.3856
66	132.	128.	20.37	0.876	0.3812
67	134.	130.	20.38	0.866	0.3768
68	136.	132.	20.39	0.856	0.3725
69	138.	134.	20.4	0.851	0.3703
70	140.	136.	20.41	0.841	0.366
71	142.	138.	20.42	0.832	0.3621
72	144.	140.	20.43	0.822	0.3577
73	146.	142.	20.43	0.817	0.3555
74	148.	144.	20.44	0.807	0.3512
75	150.	146.	20.45	0.797	0.3468
76	152.	148.	20.46	0.792	0.3446
77	154.	150.	20.47	0.782	0.3403
78	156.	152.	20.48	0.772	0.3359
79	158.	154.	20.48	0.768	0.3342
80	160.	156.	20.49	0.758	0.3299
81	162.	158.	20.5	0.753	0.3277
82	164.	160.	20.51	0.743	0.3233
83	166.	162.	20.51	0.738	0.3211
84	168.	164.	20.52	0.728	0.3168
85	170.	166.	20.53	0.723	0.3146
86	172.	168.	20.54	0.714	0.3107
87	174.	170.	20.54	0.708	0.3081
88	176.	172.	20.55	0.699	0.3042
89	178.	174.	20.56	0.694	0.302
90	180.	176.	20.57	0.684	0.2977

91	182.	178.	20.57	0.679	0.2955
92	184.	180.	20.58	0.669	0.2911
93	186.	182.	20.59	0.664	0.2889
94	188.	184.	20.59	0.659	0.2868
95	190.	186.	20.6	0.654	0.2846
96	192.	188.	20.61	0.645	0.2807
97	194.	190.	20.61	0.635	0.2763
98	196.	192.	20.62	0.63	0.2742
99	198.	194.	20.63	0.625	0.272
100	200.	196.	20.63	0.62	0.2698
101	202.	198.	20.64	0.615	0.2676
102	204.	200.	20.65	0.605	0.2633
103	206.	202.	20.65	0.6	0.2611
104	208.	204.	20.66	0.595	0.2589
105	210.	206.	20.66	0.59	0.2567
106	212.	208.	20.67	0.581	0.2528
107	214.	210.	20.67	0.576	0.2507
108	216.	212.	20.68	0.566	0.2463
109	220.	216.	20.69	0.556	0.2419
110	222.	218.	20.7	0.551	0.2398
111	224.	220.	20.7	0.546	0.2376
112	226.	222.	20.71	0.541	0.2354
113	228.	224.	20.71	0.536	0.2332
114	230.	226.	20.72	0.531	0.2311
115	232.	228.	20.72	0.527	0.2293
116	234.	230.	20.73	0.521	0.2267
117	236.	232.	20.73	0.517	0.225
118	238.	234.	20.74	0.512	0.2228
119	240.	236.	20.74	0.507	0.2206
120	242.	238.	20.75	0.502	0.2185
121	244.	240.	20.76	0.492	0.2141
122	246.	242.	20.76	0.487	0.2119
123	248.	244.	20.77	0.482	0.2097
124	250.	246.	20.77	0.477	0.2076
125	252.	248.	20.78	0.472	0.2054
126	254.	250.	20.78	0.467	0.2032
127	256.	252.	20.79	0.462	0.201
128	258.	254.	20.79	0.458	0.1993
129	260.	256.	20.8	0.453	0.1971
130	262.	258.	20.8	0.448	0.195
131	264.	260.	20.81	0.443	0.1928
132	266.	262.	20.81	0.438	0.1906
133	270.	266.	20.82	0.433	0.1884
134	272.	268.	20.82	0.428	0.1862
135	274.	270.	20.83	0.423	0.1841
136	276.	272.	20.83	0.418	0.1819
137	278.	274.	20.84	0.413	0.1797
138	280.	276.	20.84	0.408	0.1775
139	282.	278.	20.85	0.403	0.1754
140	284.	280.	20.85	0.398	0.1732
141	288.	284.	20.86	0.394	0.1715
142	290.	286.	20.86	0.389	0.1693
143	292.	288.	20.87	0.384	0.1671
144	294.	290.	20.87	0.379	0.1649
145	298.	294.	20.88	0.374	0.1628
146	300.	296.	20.88	0.369	0.1606
147	302.	298.	20.89	0.364	0.1584

148	304.	300.	20.89	0.359	0.1562
149	306.	302.	20.9	0.354	0.154
150	310.	306.	20.9	0.349	0.1519
151	312.	308.	20.91	0.344	0.1497
152	314.	310.	20.91	0.339	0.1475
153	316.	312.	20.92	0.334	0.1453
154	320.	316.	20.92	0.33	0.1436
155	322.	318.	20.93	0.325	0.1414
156	326.	322.	20.93	0.32	0.1393
157	328.	324.	20.93	0.315	0.1371
158	332.	328.	20.94	0.31	0.1349
159	334.	330.	20.95	0.305	0.1327
160	338.	334.	20.95	0.3	0.1305
161	340.	336.	20.95	0.295	0.1284
162	342.	338.	20.96	0.29	0.1262
163	346.	342.	20.97	0.285	0.124
164	348.	344.	20.97	0.28	0.1218
165	352.	348.	20.97	0.276	0.1201
166	354.	350.	20.98	0.27	0.1175
167	358.	354.	20.98	0.266	0.1158
168	362.	358.	20.99	0.261	0.1136
169	364.	360.	20.99	0.256	0.1114
170	368.	364.	21.	0.251	0.1092
171	372.	368.	21.	0.246	0.107
172	374.	370.	21.01	0.241	0.1049
173	378.	374.	21.01	0.236	0.1027
174	382.	378.	21.02	0.231	0.1005
175	384.	380.	21.02	0.226	9.835e-002
176	388.	384.	21.03	0.221	9.617e-002
177	392.	388.	21.03	0.216	9.399e-002
178	396.	392.	21.04	0.211	9.182e-002
179	400.	396.	21.04	0.207	9.008e-002
180	404.	400.	21.05	0.202	8.79e-002
181	408.	404.	21.05	0.197	8.573e-002
182	410.	406.	21.06	0.192	8.355e-002
183	416.	412.	21.06	0.187	8.138e-002
184	420.	416.	21.07	0.182	7.92e-002
185	422.	418.	21.07	0.177	7.702e-002
186	428.	424.	21.08	0.172	7.485e-002
187	434.	430.	21.08	0.167	7.267e-002
188	436.	432.	21.09	0.162	7.05e-002
189	442.	438.	21.09	0.157	6.832e-002
190	448.	444.	21.1	0.152	6.614e-002
191	452.	448.	21.1	0.147	6.397e-002
192	456.	452.	21.11	0.143	6.223e-002
193	462.	458.	21.11	0.138	6.005e-002
194	468.	464.	21.12	0.133	5.788e-002
195	472.	468.	21.12	0.128	5.57e-002
196	476.	472.	21.13	0.123	5.352e-002
197	482.	478.	21.13	0.118	5.135e-002
198	486.	482.	21.14	0.113	4.917e-002
199	492.	488.	21.14	0.108	4.7e-002
200	498.	494.	21.15	0.103	4.482e-002
201	504.	500.	21.15	9.8e-002	4.265e-002
202	510.	506.	21.16	9.3e-002	4.047e-002
203	514.	510.	21.16	8.9e-002	3.873e-002
204	518.	514.	21.17	8.3e-002	3.612e-002

205	528.	524.	21.17	7.9e-002	3.438e-002
206	534.	530.	21.18	7.4e-002	3.22e-002
207	542.	538.	21.18	6.9e-002	3.003e-002
208	548.	544.	21.19	6.4e-002	2.785e-002
209	554.	550.	21.19	5.9e-002	2.567e-002
210	560.	556.	21.2	5.4e-002	2.35e-002
211	568.	564.	21.2	4.9e-002	2.132e-002
212	574.	570.	21.21	4.4e-002	1.915e-002
213	584.	580.	21.21	3.9e-002	1.697e-002
214	588.	584.	21.22	3.4e-002	1.48e-002
215	598.	594.	21.22	2.9e-002	1.262e-002
216	606.	602.	21.23	2.4e-002	1.044e-002
217	612.	608.	21.23	2.e-002	8.703e-003
218	622.	618.	21.23	1.5e-002	6.527e-003
219	632.	628.	21.24	1.e-002	4.352e-003
220	640.	636.	21.25	5.e-003	2.176e-003
221	650.	646.	21.25	0.	0.
222	662.	658.	21.25	-5.e-003	-2.176e-003
223	672.	668.	21.26	-1.e-002	-4.352e-003
224	682.	678.	21.27	-1.5e-002	-6.527e-003
225	692.	688.	21.27	-2.e-002	-8.703e-003
226	704.	700.	21.27	-2.5e-002	-1.088e-002
227	716.	712.	21.28	-3.e-002	-1.305e-002
228	726.	722.	21.29	-3.5e-002	-1.523e-002
229	742.	738.	21.29	-4.e-002	-1.741e-002
230	756.	752.	21.29	-4.4e-002	-1.915e-002
231	758.	754.	21.29	-4.e-002	-1.741e-002
232	760.	756.	21.29	-4.4e-002	-1.915e-002
233	770.	766.	21.3	-4.9e-002	-2.132e-002
234	772.	768.	21.29	-4.4e-002	-1.915e-002
235	774.	770.	21.3	-4.9e-002	-2.132e-002
236	786.	782.	21.3	-5.4e-002	-2.35e-002
237	804.	800.	21.31	-5.9e-002	-2.567e-002
238	812.	808.	21.31	-6.4e-002	-2.785e-002
239	814.	810.	21.31	-5.9e-002	-2.567e-002
240	816.	812.	21.31	-6.4e-002	-2.785e-002
241	834.	830.	21.32	-6.9e-002	-3.003e-002
242	836.	832.	21.31	-6.4e-002	-2.785e-002
243	838.	834.	21.32	-6.9e-002	-3.003e-002
244	856.	852.	21.32	-7.4e-002	-3.22e-002
245	858.	854.	21.32	-6.9e-002	-3.003e-002
246	860.	856.	21.32	-7.4e-002	-3.22e-002
247	876.	872.	21.33	-7.9e-002	-3.438e-002
248	878.	874.	21.32	-7.4e-002	-3.22e-002
249	880.	876.	21.33	-7.9e-002	-3.438e-002
250	882.	878.	21.32	-7.4e-002	-3.22e-002
251	884.	880.	21.33	-7.9e-002	-3.438e-002

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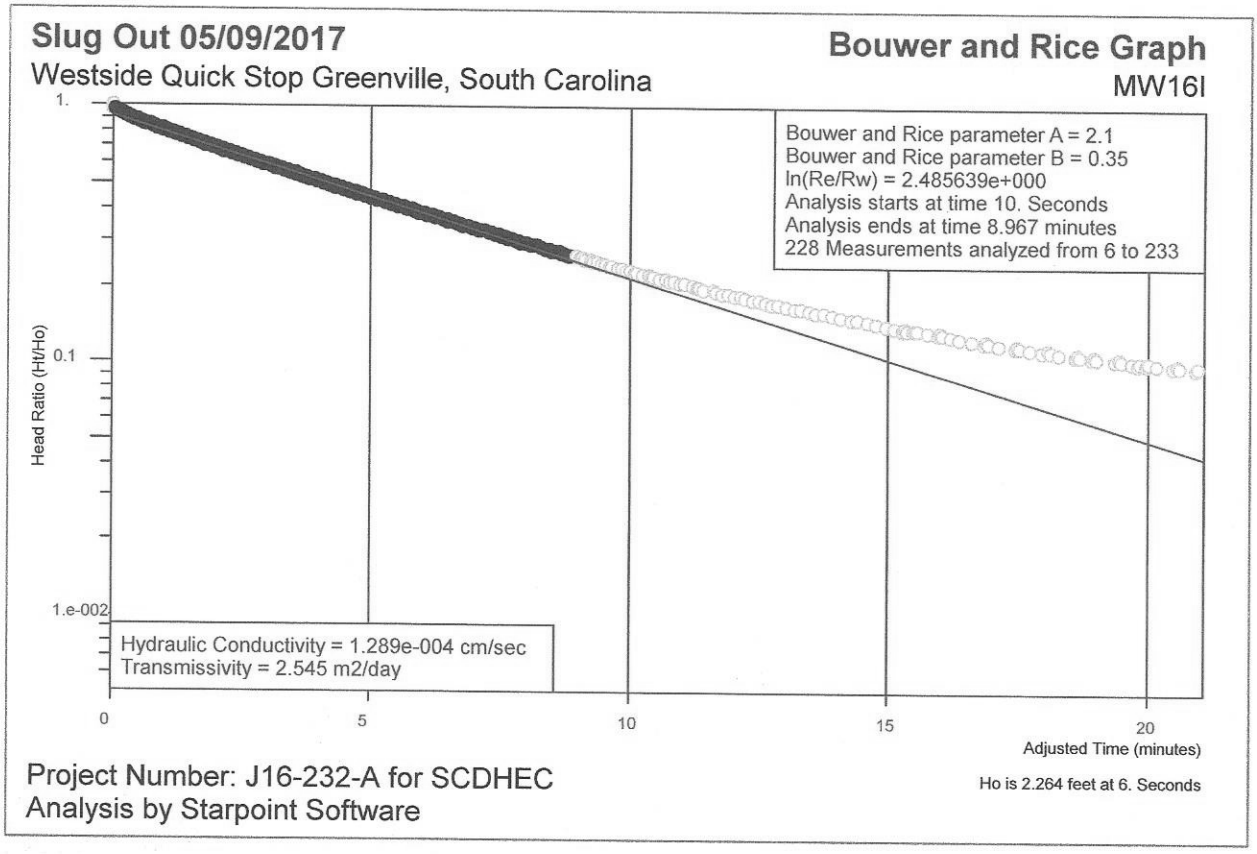
Slug Out 05/09/2017
Bouwer and Rice Graph
Westside Quick Stop Greenville, South Carolina
MW16I
Bouwer and Rice parameter A = 2.1
Bouwer and Rice parameter B = 0.35
ln(Re/Rw) = 2.485639e+000
Analysis starts at time 10. Seconds
Analysis ends at time 8.967 minutes
228 Measurements analyzed from 6 to 233
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 1.289e-004 cm/sec
Transmissivity = 2.545 m2/day
0
5
10
15
20
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 2.264 feet at 6. Seconds

Slug Out

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW16I
Aquifer Thickness:	75. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.25 feet
Static Water Level:	21.25 feet
Water Table to Screen Bottom:	43.86 feet
Anisotropy Ratio:	1.
Time Adjustment:	6. Seconds

Test starts with trial 3
There are 335 time and drawdown measurements
Maximum head is 2.264 feet
Minimum head is -2.4e-002 feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-6.	21.25	0.	0.
2	2.	-4.	21.54	0.291	0.1285
3	4.	-2.	21.23	-2.4e-002	-1.06e-002
4	6.	0.	23.51	2.264	1.
5	8.	2.	23.47	2.215	0.9784
6	10.	4.	23.45	2.195	0.9695
7	12.	6.	23.41	2.161	0.9545
8	14.	8.	23.4	2.151	0.9501
9	16.	10.	23.38	2.131	0.9413
10	18.	12.	23.37	2.116	0.9346
11	20.	14.	23.35	2.102	0.9284
12	22.	16.	23.34	2.087	0.9218
13	24.	18.	23.32	2.072	0.9152
14	26.	20.	23.31	2.057	0.9086
15	28.	22.	23.3	2.047	0.9042
16	30.	24.	23.28	2.033	0.898
17	32.	26.	23.27	2.018	0.8913
18	34.	28.	23.26	2.008	0.8869
19	36.	30.	23.24	1.988	0.8781
20	38.	32.	23.23	1.979	0.8741
21	40.	34.	23.22	1.969	0.8697
22	42.	36.	23.21	1.959	0.8653
23	44.	38.	23.19	1.944	0.8587
24	46.	40.	23.18	1.934	0.8542
25	48.	42.	23.17	1.924	0.8498
26	50.	44.	23.16	1.915	0.8458
27	52.	46.	23.15	1.9	0.8392
28	54.	48.	23.14	1.89	0.8348
29	56.	50.	23.13	1.88	0.8304
30	58.	52.	23.12	1.87	0.826
31	60.	54.	23.11	1.86	0.8216
32	62.	56.	23.1	1.851	0.8176
33	64.	58.	23.09	1.841	0.8132

34	66.	60.	23.08	1.831	0.8087
35	68.	62.	23.07	1.821	0.8043
36	70.	64.	23.06	1.811	0.7999
37	72.	66.	23.05	1.801	0.7955
38	74.	68.	23.04	1.792	0.7915
39	76.	70.	23.03	1.782	0.7871
40	78.	72.	23.02	1.772	0.7827
41	80.	74.	23.01	1.762	0.7783
42	82.	76.	23.	1.752	0.7739
43	84.	78.	22.99	1.742	0.7694
44	86.	80.	22.98	1.732	0.765
45	88.	82.	22.98	1.728	0.7633
46	90.	84.	22.97	1.718	0.7588
47	92.	86.	22.96	1.708	0.7544
48	94.	88.	22.95	1.698	0.75
49	96.	90.	22.94	1.688	0.7456
50	98.	92.	22.93	1.678	0.7412
51	100.	94.	22.92	1.668	0.7367
52	102.	96.	22.91	1.664	0.735
53	104.	98.	22.9	1.654	0.7306
54	106.	100.	22.89	1.644	0.7261
55	108.	102.	22.88	1.634	0.7217
56	110.	104.	22.88	1.629	0.7195
57	112.	106.	22.87	1.619	0.7151
58	114.	108.	22.86	1.609	0.7107
59	116.	110.	22.86	1.605	0.7089
60	118.	112.	22.84	1.595	0.7045
61	120.	114.	22.84	1.585	0.7001
62	122.	116.	22.83	1.58	0.6979
63	124.	118.	22.82	1.57	0.6935
64	126.	120.	22.81	1.56	0.689
65	128.	122.	22.81	1.555	0.6868
66	130.	124.	22.8	1.545	0.6824
67	132.	126.	22.79	1.536	0.6784
68	134.	128.	22.78	1.531	0.6762
69	136.	130.	22.77	1.521	0.6718
70	138.	132.	22.76	1.511	0.6674
71	140.	134.	22.76	1.506	0.6652
72	142.	136.	22.75	1.496	0.6608
73	144.	138.	22.74	1.491	0.6586
74	146.	140.	22.73	1.481	0.6542
75	148.	142.	22.73	1.477	0.6524
76	150.	144.	22.72	1.467	0.648
77	152.	146.	22.71	1.462	0.6458
78	154.	148.	22.7	1.452	0.6413
79	156.	150.	22.7	1.447	0.6391
80	158.	152.	22.69	1.437	0.6347
81	160.	154.	22.68	1.432	0.6325
82	162.	156.	22.67	1.422	0.6281
83	164.	158.	22.66	1.413	0.6241
84	166.	160.	22.66	1.408	0.6219
85	168.	162.	22.65	1.403	0.6197
86	170.	164.	22.64	1.393	0.6153
87	172.	166.	22.64	1.388	0.6131
88	174.	168.	22.63	1.378	0.6087
89	176.	170.	22.62	1.373	0.6064
90	178.	172.	22.62	1.368	0.6042

91	180.	174.	22.61	1.358	0.5998
92	182.	176.	22.6	1.354	0.5981
93	184.	178.	22.6	1.348	0.5954
94	186.	180.	22.59	1.339	0.5914
95	188.	182.	22.58	1.334	0.5892
96	190.	184.	22.57	1.324	0.5848
97	192.	186.	22.57	1.319	0.5826
98	194.	188.	22.56	1.314	0.5804
99	196.	190.	22.55	1.304	0.576
100	198.	192.	22.55	1.299	0.5738
101	200.	194.	22.54	1.294	0.5716
102	202.	196.	22.54	1.29	0.5698
103	204.	198.	22.53	1.28	0.5654
104	206.	200.	22.52	1.275	0.5632
105	208.	202.	22.52	1.27	0.561
106	210.	204.	22.51	1.26	0.5565
107	212.	206.	22.5	1.255	0.5543
108	214.	208.	22.5	1.25	0.5521
109	216.	210.	22.5	1.245	0.5499
110	218.	212.	22.49	1.24	0.5477
111	220.	214.	22.48	1.23	0.5433
112	222.	216.	22.48	1.226	0.5415
113	224.	218.	22.47	1.221	0.5393
114	226.	220.	22.46	1.211	0.5349
115	228.	222.	22.46	1.206	0.5327
116	230.	224.	22.45	1.201	0.5305
117	232.	226.	22.45	1.196	0.5283
118	234.	228.	22.44	1.186	0.5239
119	236.	230.	22.43	1.181	0.5216
120	238.	232.	22.43	1.176	0.5194
121	240.	234.	22.42	1.171	0.5172
122	242.	236.	22.42	1.167	0.5155
123	244.	238.	22.41	1.161	0.5128
124	246.	240.	22.41	1.157	0.511
125	248.	242.	22.4	1.147	0.5066
126	250.	244.	22.39	1.142	0.5044
127	252.	246.	22.39	1.137	0.5022
128	254.	248.	22.38	1.132	0.5
129	256.	250.	22.38	1.127	0.4978
130	258.	252.	22.37	1.122	0.4956
131	260.	254.	22.37	1.117	0.4934
132	262.	256.	22.36	1.112	0.4912
133	264.	258.	22.36	1.107	0.489
134	266.	260.	22.35	1.098	0.485
135	270.	264.	22.34	1.088	0.4806
136	272.	266.	22.33	1.083	0.4784
137	274.	268.	22.33	1.078	0.4761
138	276.	270.	22.32	1.073	0.4739
139	278.	272.	22.32	1.068	0.4717
140	280.	274.	22.31	1.063	0.4695
141	282.	276.	22.31	1.058	0.4673
142	284.	278.	22.3	1.053	0.4651
143	286.	280.	22.3	1.048	0.4629
144	288.	282.	22.29	1.043	0.4607
145	290.	284.	22.29	1.039	0.4589
146	292.	286.	22.28	1.034	0.4567
147	294.	288.	22.28	1.029	0.4545

148	296.	290.	22.27	1.024	0.4523
149	298.	292.	22.27	1.019	0.4501
150	300.	294.	22.26	1.014	0.4479
151	302.	296.	22.26	1.009	0.4457
152	304.	298.	22.25	1.004	0.4435
153	306.	300.	22.25	0.999	0.4413
154	308.	302.	22.24	0.994	0.439
155	310.	304.	22.24	0.989	0.4368
156	312.	306.	22.23	0.984	0.4346
157	314.	308.	22.23	0.98	0.4329
158	318.	312.	22.22	0.974	0.4302
159	320.	314.	22.22	0.97	0.4284
160	322.	316.	22.22	0.965	0.4262
161	324.	318.	22.21	0.96	0.424
162	326.	320.	22.2	0.955	0.4218
163	328.	322.	22.2	0.95	0.4196
164	330.	324.	22.2	0.945	0.4174
165	332.	326.	22.19	0.94	0.4152
166	334.	328.	22.18	0.935	0.413
167	336.	330.	22.18	0.93	0.4108
168	340.	334.	22.18	0.925	0.4086
169	342.	336.	22.17	0.92	0.4064
170	344.	338.	22.17	0.916	0.4046
171	346.	340.	22.16	0.911	0.4024
172	348.	342.	22.16	0.906	0.4002
173	352.	346.	22.15	0.901	0.398
174	354.	348.	22.15	0.896	0.3958
175	356.	350.	22.14	0.891	0.3936
176	358.	352.	22.14	0.886	0.3913
177	362.	356.	22.13	0.876	0.3869
178	366.	360.	22.12	0.871	0.3847
179	368.	362.	22.12	0.866	0.3825
180	370.	364.	22.11	0.861	0.3803
181	372.	366.	22.11	0.856	0.3781
182	376.	370.	22.1	0.852	0.3763
183	378.	372.	22.1	0.847	0.3741
184	380.	374.	22.09	0.842	0.3719
185	384.	378.	22.09	0.837	0.3697
186	386.	380.	22.08	0.832	0.3675
187	390.	384.	22.08	0.827	0.3653
188	392.	386.	22.07	0.822	0.3631
189	394.	388.	22.07	0.817	0.3609
190	396.	390.	22.06	0.812	0.3587
191	400.	394.	22.06	0.807	0.3564
192	402.	396.	22.05	0.802	0.3542
193	406.	400.	22.05	0.797	0.352
194	408.	402.	22.04	0.792	0.3498
195	410.	404.	22.04	0.788	0.3481
196	412.	406.	22.03	0.783	0.3458
197	418.	412.	22.03	0.778	0.3436
198	420.	414.	22.02	0.773	0.3414
199	424.	418.	22.02	0.768	0.3392
200	426.	420.	22.01	0.763	0.337
201	430.	424.	22.	0.753	0.3326
202	434.	428.	22.	0.748	0.3304
203	438.	432.	21.99	0.743	0.3282
204	442.	436.	21.99	0.738	0.326

205	444.	438.	21.98	0.733	0.3238
206	446.	440.	21.98	0.729	0.322
207	450.	444.	21.97	0.723	0.3193
208	452.	446.	21.97	0.719	0.3176
209	456.	450.	21.96	0.714	0.3154
210	458.	452.	21.96	0.709	0.3132
211	462.	456.	21.95	0.704	0.311
212	464.	458.	21.95	0.699	0.3087
213	468.	462.	21.94	0.694	0.3065
214	470.	464.	21.94	0.689	0.3043
215	474.	468.	21.93	0.684	0.3021
216	476.	470.	21.93	0.679	0.2999
217	480.	474.	21.92	0.674	0.2977
218	484.	478.	21.92	0.669	0.2955
219	486.	480.	21.91	0.665	0.2937
220	492.	486.	21.91	0.66	0.2915
221	494.	488.	21.91	0.655	0.2893
222	498.	492.	21.9	0.65	0.2871
223	502.	496.	21.9	0.645	0.2849
224	504.	498.	21.89	0.64	0.2827
225	508.	502.	21.89	0.635	0.2805
226	512.	506.	21.88	0.63	0.2783
227	516.	510.	21.88	0.625	0.2761
228	520.	514.	21.87	0.62	0.2739
229	524.	518.	21.86	0.615	0.2716
230	528.	522.	21.86	0.61	0.2694
231	530.	524.	21.86	0.605	0.2672
232	534.	528.	21.85	0.601	0.2655
233	538.	532.	21.85	0.596	0.2633
234	544.	538.	21.84	0.591	0.261
235	548.	542.	21.84	0.586	0.2588
236	552.	546.	21.83	0.581	0.2566
237	554.	548.	21.83	0.576	0.2544
238	560.	554.	21.82	0.571	0.2522
239	564.	558.	21.82	0.566	0.25
240	568.	562.	21.81	0.561	0.2478
241	572.	566.	21.81	0.556	0.2456
242	578.	572.	21.8	0.551	0.2434
243	582.	576.	21.8	0.546	0.2412
244	586.	580.	21.79	0.542	0.2394
245	592.	586.	21.79	0.536	0.2367
246	598.	592.	21.78	0.532	0.235
247	602.	596.	21.78	0.527	0.2328
248	606.	600.	21.77	0.522	0.2306
249	612.	606.	21.77	0.517	0.2284
250	614.	608.	21.76	0.512	0.2261
251	622.	616.	21.76	0.507	0.2239
252	628.	622.	21.75	0.502	0.2217
253	630.	624.	21.75	0.497	0.2195
254	634.	628.	21.74	0.492	0.2173
255	640.	634.	21.74	0.487	0.2151
256	648.	642.	21.73	0.482	0.2129
257	652.	646.	21.73	0.478	0.2111
258	658.	652.	21.72	0.473	0.2089
259	664.	658.	21.72	0.468	0.2067
260	670.	664.	21.71	0.463	0.2045
261	678.	672.	21.71	0.458	0.2023

262	684.	678.	21.7	0.453	0.2001
263	686.	680.	21.7	0.448	0.1979
264	692.	686.	21.69	0.443	0.1957
265	702.	696.	21.69	0.438	0.1935
266	706.	700.	21.68	0.433	0.1913
267	712.	706.	21.68	0.428	0.189
268	720.	714.	21.67	0.423	0.1868
269	726.	720.	21.67	0.418	0.1846
270	734.	728.	21.66	0.414	0.1829
271	740.	734.	21.66	0.409	0.1807
272	748.	742.	21.65	0.404	0.1784
273	756.	750.	21.65	0.399	0.1762
274	762.	756.	21.64	0.394	0.174
275	770.	764.	21.64	0.389	0.1718
276	778.	772.	21.63	0.384	0.1696
277	788.	782.	21.63	0.379	0.1674
278	796.	790.	21.62	0.374	0.1652
279	804.	798.	21.62	0.369	0.163
280	814.	808.	21.61	0.364	0.1608
281	822.	816.	21.61	0.359	0.1586
282	830.	824.	21.61	0.355	0.1568
283	840.	834.	21.6	0.349	0.1542
284	850.	844.	21.59	0.345	0.1524
285	862.	856.	21.59	0.34	0.1502
286	870.	864.	21.59	0.335	0.148
287	882.	876.	21.58	0.33	0.1458
288	890.	884.	21.57	0.325	0.1436
289	902.	896.	21.57	0.32	0.1413
290	912.	906.	21.57	0.315	0.1391
291	922.	916.	21.56	0.31	0.1369
292	924.	918.	21.57	0.315	0.1391
293	926.	920.	21.56	0.31	0.1369
294	934.	928.	21.56	0.305	0.1347
295	936.	930.	21.56	0.31	0.1369
296	938.	932.	21.56	0.305	0.1347
297	950.	944.	21.55	0.3	0.1325
298	964.	958.	21.55	0.295	0.1303
299	966.	960.	21.55	0.3	0.1325
300	968.	962.	21.55	0.295	0.1303
301	978.	972.	21.54	0.291	0.1285
302	988.	982.	21.54	0.286	0.1263
303	1002	996.	21.53	0.281	0.1241
304	1016	1010	21.53	0.276	0.1219
305	1018	1012	21.53	0.281	0.1241
306	1020	1014	21.53	0.276	0.1219
307	1032	1026	21.52	0.271	0.1197
308	1052	1046	21.52	0.266	0.1175
309	1054	1048	21.52	0.271	0.1197
310	1056	1050	21.52	0.266	0.1175
311	1068	1062	21.51	0.261	0.1153
312	1084	1078	21.51	0.256	0.1131
313	1090	1084	21.51	0.261	0.1153
314	1092	1086	21.51	0.256	0.1131
315	1102	1096	21.5	0.251	0.1109
316	1122	1116	21.5	0.246	0.1087
317	1124	1118	21.5	0.251	0.1109
318	1126	1120	21.5	0.246	0.1087

319	1142	1136	21.49	0.241	0.1064
320	1144	1138	21.5	0.246	0.1087
321	1146	1140	21.49	0.241	0.1064
322	1168	1162	21.49	0.236	0.1042
323	1172	1166	21.49	0.241	0.1064
324	1174	1168	21.49	0.236	0.1042
325	1188	1182	21.48	0.231	0.102
326	1194	1188	21.48	0.227	0.1003
327	1196	1190	21.48	0.231	0.102
328	1204	1198	21.48	0.227	0.1003
329	1206	1200	21.48	0.231	0.102
330	1216	1210	21.48	0.227	0.1003
331	1236	1230	21.47	0.222	9.806e-002
332	1240	1234	21.48	0.227	0.1003
333	1242	1236	21.47	0.222	9.806e-002
334	1262	1256	21.47	0.217	9.585e-002
335	1264	1258	21.47	0.222	9.806e-002

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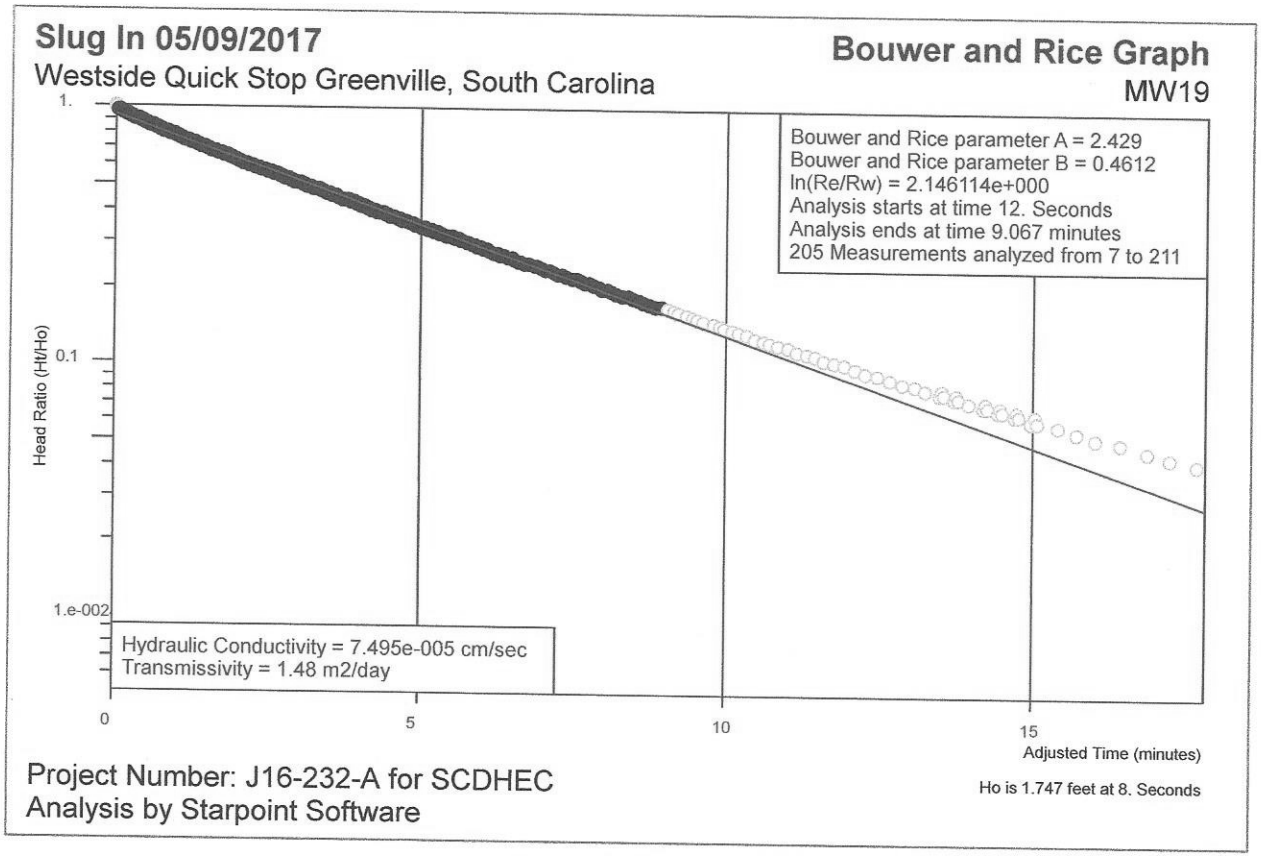
Slug In 05/09/2017
Westside Quick Stop Greenville, South Carolina
Bouwer and Rice Graph
MW19
Bouwer and Rice parameter A = 2.429
Bouwer and Rice parameter B = 0.4612
ln(Re/Rw) = 2.146114e+000
Analysis starts at time 12. Seconds
Analysis ends at time 9.067 minutes
205 Measurements analyzed from 7 to 211
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 7.495e-005 cm/sec
Transmissivity = 1.48 m2/day
0
5
10
15
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 1.747 feet at 8. Seconds

Slug In

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW19
Aquifer Thickness:	75. feet
Screen Length:	10. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	28.85 feet
Water Table to Screen Bottom:	10.47 feet
Anisotropy Ratio:	1.
Time Adjustment:	8. Seconds

Test starts with trial 4
There are 268 time and drawdown measurements
Maximum head is 1.747 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-8.	28.85	0.	0.
2	2.	-6.	27.18	1.668	0.9548
3	4.	-4.	27.73	1.122	0.6422
4	6.	-2.	27.14	1.707	0.9771
5	8.	0.	27.1	1.747	1.
6	10.	2.	27.12	1.727	0.9886
7	12.	4.	27.14	1.707	0.9771
8	14.	6.	27.16	1.693	0.9691
9	16.	8.	27.17	1.678	0.9605
10	18.	10.	27.19	1.663	0.9519
11	20.	12.	27.2	1.648	0.9433
12	22.	14.	27.22	1.633	0.9347
13	24.	16.	27.24	1.614	0.9239
14	26.	18.	27.25	1.604	0.9181
15	28.	20.	27.26	1.589	0.9096
16	30.	22.	27.27	1.575	0.9015
17	32.	24.	27.29	1.56	0.893
18	34.	26.	27.3	1.55	0.8872
19	36.	28.	27.31	1.54	0.8815
20	38.	30.	27.32	1.525	0.8729
21	40.	32.	27.34	1.51	0.8643
22	42.	34.	27.35	1.501	0.8592
23	44.	36.	27.36	1.486	0.8506
24	46.	38.	27.37	1.476	0.8449
25	48.	40.	27.38	1.466	0.8392
26	50.	42.	27.4	1.451	0.8306
27	52.	44.	27.41	1.442	0.8254
28	54.	46.	27.42	1.432	0.8197
29	56.	48.	27.43	1.417	0.8111
30	58.	50.	27.44	1.407	0.8054
31	60.	52.	27.45	1.397	0.7997
32	62.	54.	27.46	1.388	0.7945
33	64.	56.	27.47	1.378	0.7888

34	66.	58.	27.48	1.368	0.7831
35	68.	60.	27.49	1.358	0.7773
36	70.	62.	27.51	1.343	0.7687
37	72.	64.	27.52	1.333	0.763
38	74.	66.	27.53	1.323	0.7573
39	76.	68.	27.54	1.314	0.7521
40	78.	70.	27.55	1.304	0.7464
41	80.	72.	27.56	1.294	0.7407
42	82.	74.	27.56	1.289	0.7378
43	84.	76.	27.57	1.279	0.7321
44	86.	78.	27.58	1.269	0.7264
45	88.	80.	27.59	1.259	0.7207
46	90.	82.	27.6	1.25	0.7155
47	92.	84.	27.61	1.24	0.7098
48	94.	86.	27.62	1.23	0.7041
49	96.	88.	27.63	1.225	0.7012
50	98.	90.	27.64	1.215	0.6955
51	100.	92.	27.65	1.205	0.6898
52	102.	94.	27.66	1.195	0.684
53	104.	96.	27.66	1.186	0.6789
54	106.	98.	27.67	1.176	0.6732
55	108.	100.	27.68	1.171	0.6703
56	110.	102.	27.69	1.161	0.6646
57	112.	104.	27.69	1.156	0.6617
58	114.	106.	27.7	1.146	0.656
59	116.	108.	27.71	1.136	0.6503
60	118.	110.	27.72	1.132	0.648
61	120.	112.	27.73	1.122	0.6422
62	122.	114.	27.73	1.117	0.6394
63	124.	116.	27.74	1.107	0.6337
64	126.	118.	27.75	1.102	0.6308
65	128.	120.	27.76	1.092	0.6251
66	130.	122.	27.76	1.087	0.6222
67	132.	124.	27.77	1.077	0.6165
68	134.	126.	27.78	1.068	0.6113
69	136.	128.	27.79	1.063	0.6085
70	138.	130.	27.79	1.058	0.6056
71	140.	132.	27.8	1.048	0.5999
72	142.	134.	27.81	1.038	0.5942
73	144.	136.	27.82	1.033	0.5913
74	146.	138.	27.82	1.028	0.5884
75	148.	140.	27.83	1.018	0.5827
76	150.	142.	27.84	1.013	0.5799
77	152.	144.	27.85	1.004	0.5747
78	154.	146.	27.85	0.999	0.5718
79	156.	148.	27.86	0.994	0.569
80	158.	150.	27.87	0.984	0.5633
81	160.	152.	27.87	0.979	0.5604
82	162.	154.	27.88	0.974	0.5575
83	164.	156.	27.89	0.964	0.5518
84	166.	158.	27.89	0.959	0.5489
85	168.	160.	27.9	0.954	0.5461
86	170.	162.	27.91	0.944	0.5404
87	172.	164.	27.91	0.94	0.5381
88	174.	166.	27.91	0.935	0.5352
89	176.	168.	27.92	0.93	0.5323
90	178.	170.	27.93	0.92	0.5266

91	180.	172.	27.93	0.915	0.5238
92	182.	174.	27.94	0.91	0.5209
93	184.	176.	27.95	0.9	0.5152
94	186.	178.	27.95	0.895	0.5123
95	188.	180.	27.96	0.89	0.5094
96	190.	182.	27.97	0.885	0.5066
97	192.	184.	27.97	0.881	0.5043
98	194.	186.	27.98	0.871	0.4986
99	196.	188.	27.98	0.866	0.4957
100	198.	190.	27.99	0.861	0.4928
101	200.	192.	27.99	0.856	0.49
102	202.	194.	28.	0.851	0.4871
103	204.	196.	28.01	0.841	0.4814
104	208.	200.	28.01	0.836	0.4785
105	210.	202.	28.02	0.826	0.4728
106	212.	204.	28.03	0.821	0.4699
107	214.	206.	28.03	0.817	0.4677
108	216.	208.	28.04	0.812	0.4648
109	218.	210.	28.04	0.807	0.4619
110	220.	212.	28.05	0.802	0.4591
111	222.	214.	28.05	0.797	0.4562
112	224.	216.	28.06	0.792	0.4533
113	226.	218.	28.07	0.782	0.4476
114	230.	222.	28.08	0.772	0.4419
115	232.	224.	28.08	0.767	0.439
116	236.	228.	28.09	0.763	0.4367
117	238.	230.	28.09	0.757	0.4333
118	240.	232.	28.1	0.753	0.431
119	242.	234.	28.1	0.748	0.4282
120	244.	236.	28.11	0.743	0.4253
121	246.	238.	28.11	0.738	0.4224
122	248.	240.	28.12	0.733	0.4196
123	250.	242.	28.12	0.728	0.4167
124	252.	244.	28.13	0.723	0.4139
125	254.	246.	28.13	0.718	0.411
126	256.	248.	28.14	0.713	0.4081
127	258.	250.	28.14	0.708	0.4053
128	260.	252.	28.15	0.703	0.4024
129	262.	254.	28.15	0.698	0.3995
130	264.	256.	28.16	0.694	0.3973
131	266.	258.	28.16	0.689	0.3944
132	268.	260.	28.17	0.684	0.3915
133	272.	264.	28.17	0.679	0.3887
134	274.	266.	28.18	0.674	0.3858
135	276.	268.	28.18	0.669	0.3829
136	278.	270.	28.19	0.664	0.3801
137	280.	272.	28.19	0.659	0.3772
138	282.	274.	28.2	0.654	0.3744
139	286.	278.	28.2	0.649	0.3715
140	288.	280.	28.21	0.644	0.3686
141	290.	282.	28.21	0.639	0.3658
142	292.	284.	28.22	0.634	0.3629
143	294.	286.	28.22	0.63	0.3606
144	298.	290.	28.22	0.625	0.3578
145	300.	292.	28.23	0.62	0.3549
146	302.	294.	28.23	0.615	0.352
147	304.	296.	28.24	0.61	0.3492

148	308.	300.	28.25	0.605	0.3463
149	310.	302.	28.25	0.6	0.3434
150	312.	304.	28.25	0.595	0.3406
151	314.	306.	28.26	0.59	0.3377
152	318.	310.	28.26	0.585	0.3349
153	320.	312.	28.27	0.58	0.332
154	324.	316.	28.27	0.576	0.3297
155	326.	318.	28.28	0.57	0.3263
156	328.	320.	28.28	0.566	0.324
157	332.	324.	28.29	0.561	0.3211
158	334.	326.	28.29	0.556	0.3183
159	338.	330.	28.3	0.551	0.3154
160	340.	332.	28.3	0.546	0.3125
161	344.	336.	28.31	0.541	0.3097
162	346.	338.	28.31	0.536	0.3068
163	348.	340.	28.32	0.531	0.3039
164	352.	344.	28.32	0.526	0.3011
165	354.	346.	28.33	0.521	0.2982
166	358.	350.	28.33	0.516	0.2954
167	360.	352.	28.34	0.511	0.2925
168	364.	356.	28.34	0.507	0.2902
169	368.	360.	28.35	0.502	0.2873
170	370.	362.	28.35	0.497	0.2845
171	374.	366.	28.36	0.492	0.2816
172	376.	368.	28.36	0.487	0.2788
173	380.	372.	28.37	0.482	0.2759
174	384.	376.	28.37	0.477	0.273
175	386.	378.	28.38	0.472	0.2702
176	390.	382.	28.38	0.467	0.2673
177	394.	386.	28.39	0.462	0.2645
178	398.	390.	28.39	0.457	0.2616
179	400.	392.	28.4	0.452	0.2587
180	404.	396.	28.4	0.447	0.2559
181	406.	398.	28.41	0.443	0.2536
182	410.	402.	28.41	0.438	0.2507
183	414.	406.	28.42	0.433	0.2479
184	420.	412.	28.42	0.428	0.245
185	422.	414.	28.43	0.423	0.2421
186	426.	418.	28.43	0.418	0.2393
187	430.	422.	28.44	0.413	0.2364
188	434.	426.	28.44	0.408	0.2335
189	438.	430.	28.45	0.403	0.2307
190	442.	434.	28.45	0.398	0.2278
191	446.	438.	28.46	0.393	0.225
192	450.	442.	28.46	0.388	0.2221
193	456.	448.	28.47	0.383	0.2192
194	460.	452.	28.47	0.379	0.2169
195	464.	456.	28.48	0.374	0.2141
196	468.	460.	28.48	0.369	0.2112
197	472.	464.	28.49	0.364	0.2084
198	476.	468.	28.49	0.359	0.2055
199	482.	474.	28.5	0.354	0.2026
200	486.	478.	28.5	0.349	0.1998
201	492.	484.	28.51	0.344	0.1969
202	496.	488.	28.51	0.339	0.194
203	500.	492.	28.52	0.334	0.1912
204	506.	498.	28.52	0.329	0.1883

205	512.	504.	28.52	0.325	0.186
206	516.	508.	28.53	0.319	0.1826
207	522.	514.	28.54	0.315	0.1803
208	526.	518.	28.54	0.31	0.1774
209	532.	524.	28.54	0.305	0.1746
210	538.	530.	28.55	0.3	0.1717
211	544.	536.	28.56	0.295	0.1689
212	550.	542.	28.56	0.29	0.166
213	556.	548.	28.57	0.285	0.1631
214	560.	552.	28.57	0.28	0.1603
215	568.	560.	28.57	0.275	0.1574
216	574.	566.	28.58	0.27	0.1546
217	578.	570.	28.58	0.265	0.1517
218	584.	576.	28.59	0.26	0.1488
219	594.	586.	28.59	0.256	0.1465
220	600.	592.	28.6	0.251	0.1437
221	606.	598.	28.6	0.246	0.1408
222	614.	606.	28.61	0.241	0.138
223	620.	612.	28.61	0.236	0.1351
224	628.	620.	28.62	0.231	0.1322
225	636.	628.	28.62	0.226	0.1294
226	644.	636.	28.63	0.221	0.1265
227	650.	642.	28.63	0.216	0.1236
228	658.	650.	28.64	0.211	0.1208
229	668.	660.	28.64	0.206	0.1179
230	676.	668.	28.65	0.201	0.1151
231	686.	678.	28.65	0.196	0.1122
232	694.	686.	28.66	0.192	0.1099
233	702.	694.	28.66	0.187	0.107
234	712.	704.	28.67	0.182	0.1042
235	724.	716.	28.67	0.177	0.1013
236	734.	726.	28.68	0.172	9.845e-002
237	744.	736.	28.68	0.167	9.559e-002
238	756.	748.	28.69	0.162	9.273e-002
239	768.	760.	28.69	0.157	8.987e-002
240	780.	772.	28.7	0.152	8.701e-002
241	792.	784.	28.7	0.147	8.414e-002
242	802.	794.	28.71	0.142	8.128e-002
243	816.	808.	28.71	0.138	7.899e-002
244	818.	810.	28.71	0.142	8.128e-002
245	820.	812.	28.71	0.138	7.899e-002
246	830.	822.	28.72	0.132	7.556e-002
247	832.	824.	28.71	0.138	7.899e-002
248	834.	826.	28.72	0.132	7.556e-002
249	846.	838.	28.72	0.128	7.327e-002
250	860.	852.	28.73	0.123	7.041e-002
251	862.	854.	28.72	0.128	7.327e-002
252	864.	856.	28.73	0.123	7.041e-002
253	874.	866.	28.73	0.118	6.754e-002
254	876.	868.	28.73	0.123	7.041e-002
255	878.	870.	28.73	0.118	6.754e-002
256	890.	882.	28.74	0.113	6.468e-002
257	892.	884.	28.73	0.118	6.754e-002
258	894.	886.	28.74	0.113	6.468e-002
259	906.	898.	28.74	0.108	6.182e-002
260	910.	902.	28.74	0.113	6.468e-002
261	912.	904.	28.74	0.108	6.182e-002

262	932.	924.	28.75	0.103	5.896e-002
263	950.	942.	28.75	9.8e-002	5.61e-002
264	970.	962.	28.76	9.3e-002	5.323e-002
265	994.	986.	28.76	8.8e-002	5.037e-002
266	1020	1012	28.77	8.3e-002	4.751e-002
267	1042	1034	28.77	7.8e-002	4.465e-002
268	1068	1060	28.78	7.3e-002	4.179e-002

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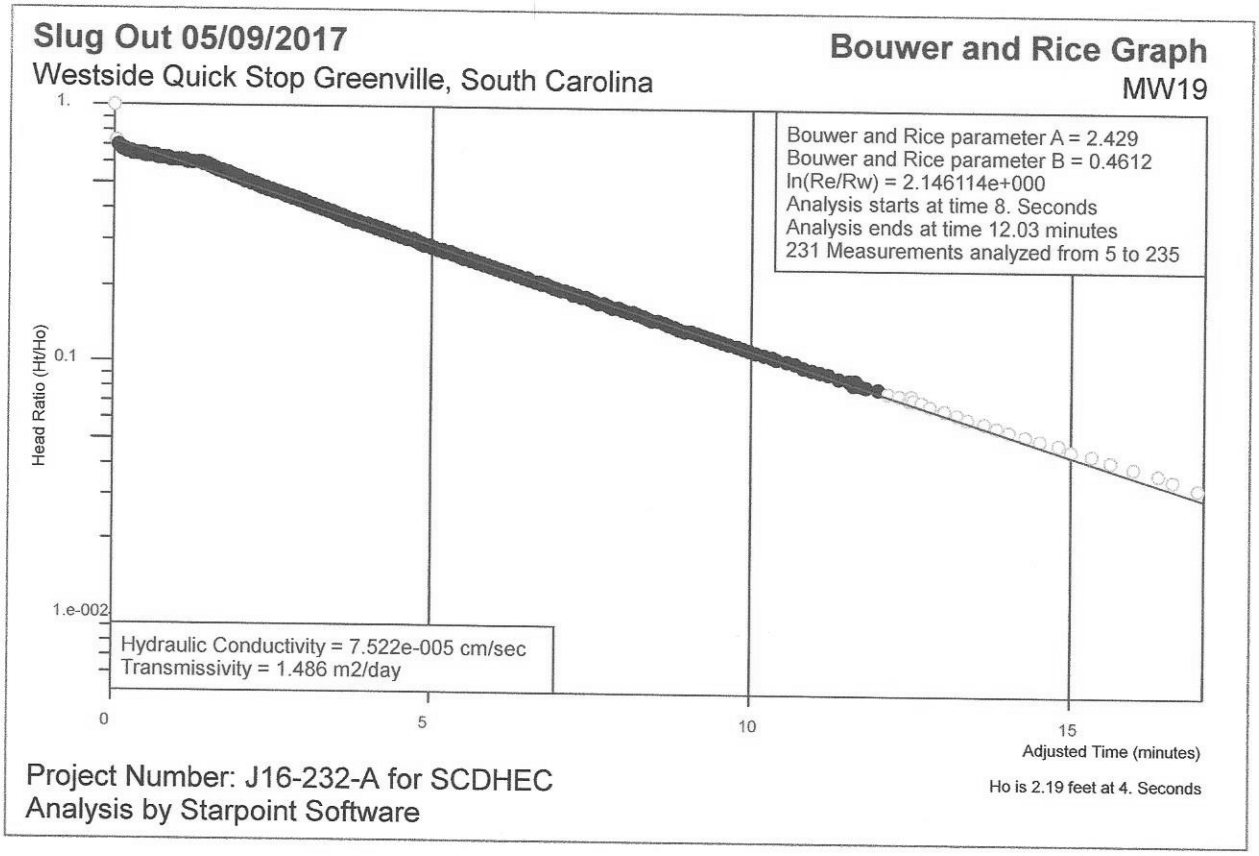
Slug Out 05/09/2017
Bouwer and Rice Graph
Westside Quick Stop Greenville, South Carolina
MW19
Bouwer and Rice parameter A = 2.429
Bouwer and Rice parameter B = 0.4612
ln(Re/Rw) = 2.146114e+000
Analysis starts at time 8. Seconds
Analysis ends at time 12.03 minutes
231 Measurements analyzed from 5 to 235
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 7.522e-005 cm/sec
Transmissivity = 1.486 m2/day
0
5
10
15
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 2.19 feet at 4. Seconds

Slug Out

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW19
Aquifer Thickness:	75. feet
Screen Length:	10. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	28.85 feet
Water Table to Screen Bottom:	10.47 feet
Anisotropy Ratio:	1.
Time Adjustment:	4. Seconds

Test starts with trial 2
There are 258 time and drawdown measurements
Maximum head is 2.19 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-4.	28.85	0.	0.
2	2.	-2.	28.9	5.5e-002	2.511e-002
3	4.	0.	31.04	2.19	1.
4	6.	2.	30.44	1.59	0.726
5	8.	4.	30.39	1.536	0.7014
6	10.	6.	30.36	1.511	0.69
7	12.	8.	30.34	1.487	0.679
8	14.	10.	30.32	1.472	0.6721
9	16.	12.	30.31	1.462	0.6676
10	18.	14.	30.31	1.457	0.6653
11	20.	16.	30.3	1.447	0.6607
12	22.	18.	30.29	1.442	0.6584
13	24.	20.	30.29	1.437	0.6562
14	26.	22.	30.28	1.432	0.6539
15	28.	24.	30.28	1.428	0.6521
16	30.	26.	30.27	1.423	0.6498
17	32.	28.	30.27	1.418	0.6475
18	34.	30.	30.26	1.413	0.6452
19	36.	32.	30.26	1.408	0.6429
20	38.	34.	30.25	1.403	0.6406
21	42.	38.	30.25	1.398	0.6384
22	44.	40.	30.24	1.393	0.6361
23	46.	42.	30.24	1.388	0.6338
24	48.	44.	30.23	1.383	0.6315
25	50.	46.	30.23	1.378	0.6292
26	52.	48.	30.22	1.373	0.6269
27	56.	52.	30.22	1.368	0.6247
28	58.	54.	30.21	1.364	0.6228
29	60.	56.	30.21	1.359	0.6205
30	64.	60.	30.2	1.354	0.6183
31	66.	62.	30.2	1.349	0.616
32	68.	64.	30.19	1.344	0.6137
33	72.	68.	30.19	1.339	0.6114

34	74.	70.	30.18	1.334	0.6091
35	78.	74.	30.18	1.329	0.6068
36	80.	76.	30.17	1.324	0.6046
37	84.	80.	30.17	1.319	0.6023
38	86.	82.	30.16	1.314	0.6
39	88.	84.	30.16	1.309	0.5977
40	90.	86.	30.15	1.299	0.5932
41	92.	88.	30.14	1.29	0.589
42	94.	90.	30.13	1.28	0.5845
43	96.	92.	30.12	1.27	0.5799
44	98.	94.	30.11	1.26	0.5753
45	100.	96.	30.1	1.25	0.5708
46	102.	98.	30.09	1.241	0.5667
47	104.	100.	30.08	1.231	0.5621
48	106.	102.	30.08	1.226	0.5598
49	108.	104.	30.07	1.216	0.5553
50	110.	106.	30.06	1.206	0.5507
51	112.	108.	30.05	1.196	0.5461
52	114.	110.	30.04	1.186	0.5416
53	116.	112.	30.03	1.181	0.5393
54	118.	114.	30.02	1.172	0.5352
55	120.	116.	30.01	1.162	0.5306
56	122.	118.	30.	1.152	0.526
57	124.	120.	30.	1.147	0.5237
58	126.	122.	29.99	1.137	0.5192
59	128.	124.	29.98	1.127	0.5146
60	130.	126.	29.97	1.122	0.5123
61	132.	128.	29.96	1.112	0.5078
62	134.	130.	29.95	1.103	0.5037
63	136.	132.	29.95	1.098	0.5014
64	138.	134.	29.94	1.088	0.4968
65	140.	136.	29.93	1.078	0.4922
66	142.	138.	29.92	1.073	0.49
67	144.	140.	29.91	1.063	0.4854
68	146.	142.	29.91	1.058	0.4831
69	148.	144.	29.9	1.049	0.479
70	150.	146.	29.89	1.044	0.4767
71	152.	148.	29.88	1.034	0.4721
72	154.	150.	29.88	1.029	0.4699
73	156.	152.	29.87	1.024	0.4676
74	158.	154.	29.86	1.014	0.463
75	160.	156.	29.86	1.009	0.4607
76	162.	158.	29.85	0.999	0.4562
77	164.	160.	29.84	0.994	0.4539
78	166.	162.	29.84	0.985	0.4498
79	168.	164.	29.83	0.98	0.4475
80	170.	166.	29.83	0.975	0.4452
81	172.	168.	29.82	0.965	0.4406
82	174.	170.	29.81	0.96	0.4384
83	176.	172.	29.81	0.955	0.4361
84	178.	174.	29.8	0.945	0.4315
85	180.	176.	29.79	0.94	0.4292
86	182.	178.	29.78	0.935	0.4269
87	184.	180.	29.77	0.925	0.4224
88	186.	182.	29.77	0.921	0.4205
89	188.	184.	29.77	0.916	0.4183
90	190.	186.	29.76	0.906	0.4137

91	192.	188.	29.75	0.901	0.4114
92	194.	190.	29.75	0.896	0.4091
93	196.	192.	29.74	0.891	0.4068
94	198.	194.	29.74	0.886	0.4046
95	200.	196.	29.73	0.876	0.4
96	202.	198.	29.72	0.871	0.3977
97	204.	200.	29.72	0.867	0.3959
98	206.	202.	29.71	0.862	0.3936
99	208.	204.	29.71	0.857	0.3913
100	210.	206.	29.7	0.852	0.389
101	212.	208.	29.69	0.842	0.3845
102	214.	210.	29.69	0.837	0.3822
103	216.	212.	29.68	0.832	0.3799
104	218.	214.	29.68	0.827	0.3776
105	220.	216.	29.67	0.822	0.3753
106	222.	218.	29.67	0.817	0.3731
107	224.	220.	29.66	0.807	0.3685
108	226.	222.	29.65	0.803	0.3667
109	230.	226.	29.64	0.793	0.3621
110	232.	228.	29.64	0.788	0.3598
111	234.	230.	29.63	0.783	0.3575
112	236.	232.	29.63	0.778	0.3553
113	240.	236.	29.62	0.768	0.3507
114	242.	238.	29.61	0.763	0.3484
115	244.	240.	29.61	0.758	0.3461
116	246.	242.	29.6	0.753	0.3438
117	248.	244.	29.6	0.748	0.3416
118	250.	246.	29.59	0.743	0.3393
119	252.	248.	29.59	0.739	0.3374
120	254.	250.	29.58	0.734	0.3352
121	256.	252.	29.58	0.729	0.3329
122	258.	254.	29.57	0.724	0.3306
123	260.	256.	29.57	0.719	0.3283
124	262.	258.	29.56	0.714	0.326
125	264.	260.	29.56	0.709	0.3237
126	266.	262.	29.55	0.704	0.3215
127	268.	264.	29.55	0.699	0.3192
128	270.	266.	29.54	0.694	0.3169
129	274.	270.	29.54	0.689	0.3146
130	276.	272.	29.53	0.684	0.3123
131	278.	274.	29.53	0.68	0.3105
132	280.	276.	29.52	0.675	0.3082
133	282.	278.	29.52	0.67	0.3059
134	286.	282.	29.52	0.665	0.3037
135	288.	284.	29.51	0.66	0.3014
136	290.	286.	29.51	0.655	0.2991
137	292.	288.	29.5	0.65	0.2968
138	294.	290.	29.5	0.645	0.2945
139	296.	292.	29.49	0.64	0.2922
140	300.	296.	29.48	0.635	0.29
141	302.	298.	29.48	0.63	0.2877
142	304.	300.	29.48	0.625	0.2854
143	306.	302.	29.47	0.62	0.2831
144	310.	306.	29.47	0.616	0.2813
145	312.	308.	29.46	0.611	0.279
146	314.	310.	29.46	0.606	0.2767
147	316.	312.	29.45	0.601	0.2744

148	320.	316.	29.45	0.596	0.2721
149	322.	318.	29.44	0.591	0.2699
150	324.	320.	29.44	0.586	0.2676
151	328.	324.	29.43	0.581	0.2653
152	330.	326.	29.43	0.576	0.263
153	332.	328.	29.42	0.571	0.2607
154	336.	332.	29.42	0.566	0.2584
155	338.	334.	29.41	0.561	0.2562
156	340.	336.	29.41	0.556	0.2539
157	344.	340.	29.4	0.552	0.2521
158	346.	342.	29.4	0.547	0.2498
159	350.	346.	29.39	0.542	0.2475
160	352.	348.	29.39	0.537	0.2452
161	356.	352.	29.38	0.532	0.2429
162	358.	354.	29.38	0.527	0.2406
163	362.	358.	29.37	0.522	0.2384
164	364.	360.	29.37	0.517	0.2361
165	368.	364.	29.36	0.512	0.2338
166	370.	366.	29.36	0.507	0.2315
167	374.	370.	29.35	0.502	0.2292
168	376.	372.	29.35	0.497	0.2269
169	380.	376.	29.34	0.493	0.2251
170	384.	380.	29.34	0.487	0.2224
171	386.	382.	29.33	0.483	0.2205
172	390.	386.	29.33	0.478	0.2183
173	394.	390.	29.32	0.473	0.216
174	396.	392.	29.32	0.468	0.2137
175	400.	396.	29.31	0.463	0.2114
176	404.	400.	29.31	0.458	0.2091
177	406.	402.	29.3	0.453	0.2068
178	410.	406.	29.3	0.448	0.2046
179	414.	410.	29.29	0.443	0.2023
180	418.	414.	29.29	0.438	0.2
181	420.	416.	29.28	0.433	0.1977
182	424.	420.	29.28	0.429	0.1959
183	428.	424.	29.27	0.424	0.1936
184	434.	430.	29.27	0.419	0.1913
185	436.	432.	29.26	0.414	0.189
186	440.	436.	29.26	0.409	0.1868
187	444.	440.	29.25	0.404	0.1845
188	448.	444.	29.25	0.399	0.1822
189	452.	448.	29.24	0.394	0.1799
190	456.	452.	29.24	0.389	0.1776
191	460.	456.	29.23	0.384	0.1753
192	466.	462.	29.23	0.379	0.1731
193	470.	466.	29.22	0.374	0.1708
194	474.	470.	29.22	0.369	0.1685
195	478.	474.	29.22	0.365	0.1667
196	482.	478.	29.21	0.36	0.1644
197	488.	484.	29.2	0.355	0.1621
198	492.	488.	29.2	0.35	0.1598
199	496.	492.	29.2	0.345	0.1575
200	502.	498.	29.19	0.34	0.1553
201	506.	502.	29.19	0.335	0.153
202	510.	506.	29.18	0.33	0.1507
203	516.	512.	29.18	0.325	0.1484
204	522.	518.	29.17	0.32	0.1461

205	526.	522.	29.16	0.315	0.1438
206	532.	528.	29.16	0.31	0.1416
207	536.	532.	29.16	0.306	0.1397
208	542.	538.	29.15	0.3	0.137
209	548.	544.	29.15	0.296	0.1352
210	554.	550.	29.14	0.291	0.1329
211	558.	554.	29.14	0.286	0.1306
212	564.	560.	29.13	0.281	0.1283
213	570.	566.	29.13	0.276	0.126
214	576.	572.	29.12	0.271	0.1237
215	582.	578.	29.12	0.266	0.1215
216	590.	586.	29.11	0.261	0.1192
217	596.	592.	29.11	0.256	0.1169
218	602.	598.	29.1	0.251	0.1146
219	608.	604.	29.1	0.246	0.1123
220	616.	612.	29.09	0.242	0.1105
221	624.	620.	29.09	0.237	0.1082
222	628.	624.	29.08	0.232	0.1059
223	636.	632.	29.08	0.227	0.1037
224	644.	640.	29.07	0.222	0.1014
225	652.	648.	29.07	0.217	9.909e-002
226	660.	656.	29.06	0.212	9.68e-002
227	668.	664.	29.06	0.207	9.452e-002
228	676.	672.	29.05	0.202	9.224e-002
229	686.	682.	29.05	0.197	8.995e-002
230	696.	692.	29.04	0.192	8.767e-002
231	700.	696.	29.04	0.187	8.539e-002
232	702.	698.	29.04	0.192	8.767e-002
233	706.	702.	29.04	0.187	8.539e-002
234	712.	708.	29.03	0.182	8.311e-002
235	722.	718.	29.03	0.178	8.128e-002
236	732.	728.	29.02	0.173	7.9e-002
237	742.	738.	29.02	0.168	7.671e-002
238	752.	748.	29.01	0.163	7.443e-002
239	754.	750.	29.02	0.168	7.671e-002
240	756.	752.	29.01	0.163	7.443e-002
241	764.	760.	29.01	0.158	7.215e-002
242	772.	768.	29.	0.153	6.986e-002
243	786.	782.	29.	0.148	6.758e-002
244	796.	792.	28.99	0.143	6.53e-002
245	806.	802.	28.99	0.138	6.301e-002
246	822.	818.	28.98	0.133	6.073e-002
247	834.	830.	28.98	0.128	5.845e-002
248	846.	842.	28.97	0.123	5.616e-002
249	862.	858.	28.97	0.118	5.388e-002
250	874.	870.	28.96	0.114	5.205e-002
251	892.	888.	28.96	0.109	4.977e-002
252	904.	900.	28.95	0.104	4.749e-002
253	924.	920.	28.95	9.9e-002	4.521e-002
254	942.	938.	28.94	9.4e-002	4.292e-002
255	962.	958.	28.94	8.9e-002	4.064e-002
256	986.	982.	28.93	8.4e-002	3.836e-002
257	1000	996.	28.93	7.9e-002	3.607e-002
258	1024	1020	28.92	7.4e-002	3.379e-002

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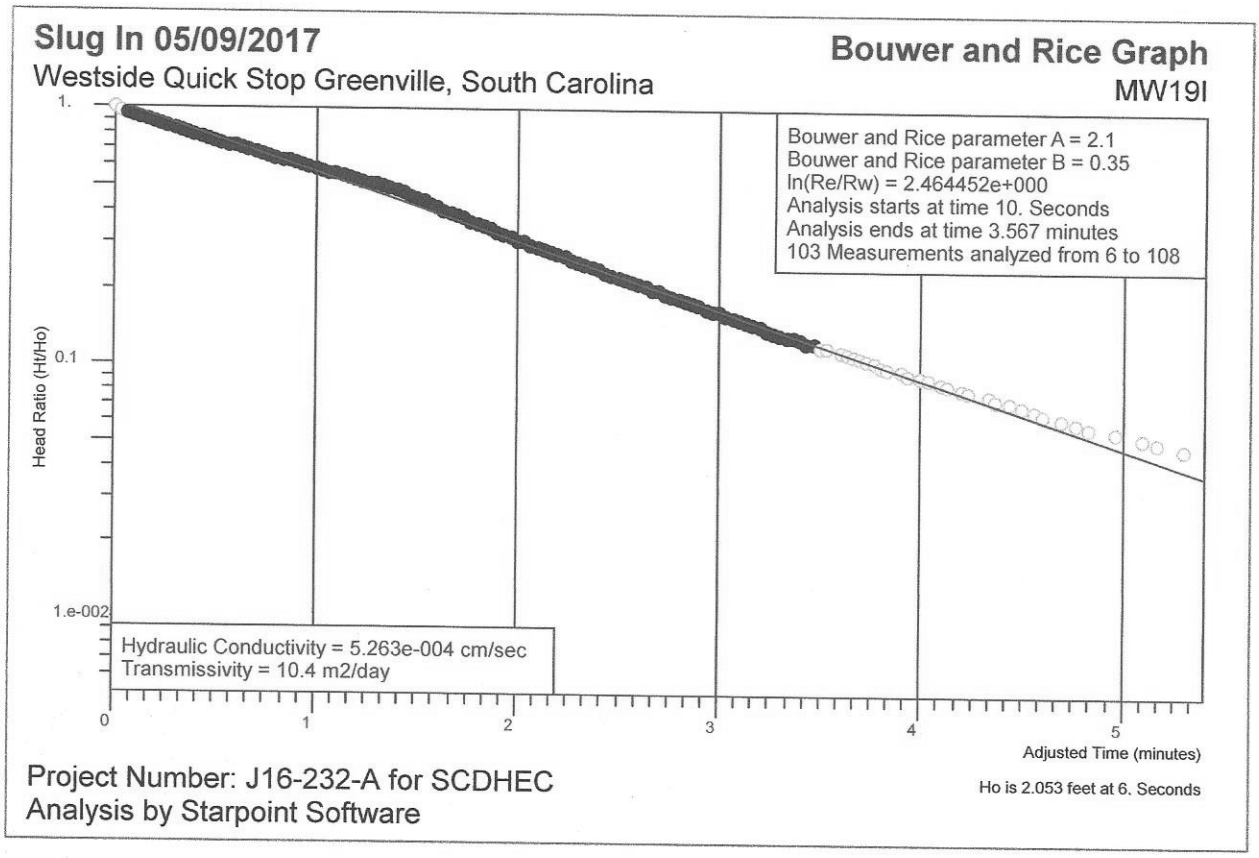
Slug In 05/09/2017
Westside Quick Stop Greenville, South Carolina
Bouwer and Rice Graph
MW19I
Bouwer and Rice parameter A = 2.1
Bouwer and Rice parameter B = 0.35
ln(Re/Rw) = 2.464452e+000
Analysis starts at time 10. Seconds
Analysis ends at time 3.567 minutes
103 Measurements analyzed from 6 to 108
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 5.263e-004 cm/sec
Transmissivity = 10.4 m2/day
0
1
2
3
4
5
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 2.053 feet at 6. Seconds

Slug In

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW19I
Aquifer Thickness:	75. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.25 feet
Static Water Level:	28.73 feet
Water Table to Screen Bottom:	41.58 feet
Anisotropy Ratio:	1.
Time Adjustment:	6. Seconds

Test starts with trial 3
There are 139 time and drawdown measurements
Maximum head is 2.053 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-6.	28.73	0.	0.
2	2.	-4.	28.49	0.242	0.1179
3	4.	-2.	27.16	1.57	0.7647
4	6.	0.	26.68	2.053	1.
5	8.	2.	26.73	2.003	0.9756
6	10.	4.	26.77	1.959	0.9542
7	12.	6.	26.81	1.92	0.9352
8	14.	8.	26.85	1.88	0.9157
9	16.	10.	26.89	1.841	0.8967
10	18.	12.	26.92	1.807	0.8802
11	20.	14.	26.95	1.777	0.8656
12	22.	16.	26.99	1.743	0.849
13	24.	18.	27.02	1.708	0.832
14	26.	20.	27.05	1.679	0.8178
15	28.	22.	27.08	1.649	0.8032
16	30.	24.	27.12	1.61	0.7842
17	32.	26.	27.14	1.595	0.7769
18	34.	28.	27.16	1.565	0.7623
19	36.	30.	27.19	1.536	0.7482
20	38.	32.	27.22	1.511	0.736
21	40.	34.	27.24	1.487	0.7243
22	42.	36.	27.27	1.462	0.7121
23	44.	38.	27.29	1.437	0.7
24	46.	40.	27.32	1.413	0.6883
25	48.	42.	27.34	1.388	0.6761
26	50.	44.	27.36	1.369	0.6668
27	52.	46.	27.39	1.344	0.6547
28	54.	48.	27.41	1.319	0.6425
29	56.	50.	27.43	1.3	0.6332
30	58.	52.	27.45	1.28	0.6235
31	60.	54.	27.47	1.26	0.6137
32	62.	56.	27.49	1.236	0.602
33	64.	58.	27.51	1.216	0.5923

34	66.	60.	27.53	1.201	0.585
35	68.	62.	27.55	1.182	0.5757
36	70.	64.	27.57	1.162	0.566
37	72.	66.	27.59	1.142	0.5563
38	74.	68.	27.6	1.127	0.549
39	76.	70.	27.62	1.108	0.5397
40	78.	72.	27.65	1.083	0.5275
41	80.	74.	27.66	1.073	0.5226
42	82.	76.	27.67	1.058	0.5153
43	84.	78.	27.69	1.044	0.5085
44	86.	80.	27.71	1.024	0.4988
45	88.	82.	27.72	1.009	0.4915
46	90.	84.	27.74	0.99	0.4822
47	92.	86.	27.77	0.965	0.47
48	94.	88.	27.79	0.94	0.4579
49	96.	90.	27.81	0.916	0.4462
50	98.	92.	27.83	0.896	0.4364
51	100.	94.	27.86	0.871	0.4243
52	102.	96.	27.88	0.852	0.415
53	104.	98.	27.9	0.827	0.4028
54	106.	100.	27.92	0.808	0.3936
55	108.	102.	27.94	0.788	0.3838
56	110.	104.	27.96	0.768	0.3741
57	112.	106.	27.98	0.753	0.3668
58	114.	108.	28.	0.734	0.3575
59	116.	110.	28.01	0.719	0.3502
60	118.	112.	28.03	0.699	0.3405
61	120.	114.	28.05	0.684	0.3332
62	122.	116.	28.06	0.67	0.3264
63	124.	118.	28.07	0.655	0.319
64	126.	120.	28.09	0.635	0.3093
65	128.	122.	28.1	0.625	0.3044
66	130.	124.	28.12	0.611	0.2976
67	132.	126.	28.13	0.596	0.2903
68	134.	128.	28.15	0.581	0.283
69	136.	130.	28.16	0.571	0.2781
70	138.	132.	28.17	0.557	0.2713
71	140.	134.	28.18	0.547	0.2664
72	142.	136.	28.2	0.532	0.2591
73	144.	138.	28.21	0.522	0.2543
74	146.	140.	28.22	0.512	0.2494
75	148.	142.	28.23	0.497	0.2421
76	150.	144.	28.24	0.488	0.2377
77	152.	146.	28.25	0.478	0.2328
78	154.	148.	28.26	0.468	0.228
79	156.	150.	28.27	0.458	0.2231
80	158.	152.	28.28	0.448	0.2182
81	160.	154.	28.29	0.439	0.2138
82	162.	156.	28.3	0.429	0.209
83	164.	158.	28.31	0.419	0.2041
84	166.	160.	28.32	0.409	0.1992
85	168.	162.	28.33	0.404	0.1968
86	170.	164.	28.34	0.394	0.1919
87	172.	166.	28.35	0.384	0.187
88	174.	168.	28.36	0.374	0.1822
89	176.	170.	28.36	0.37	0.1802
90	178.	172.	28.36	0.365	0.1778

91	180.	174.	28.38	0.355	0.1729
92	182.	176.	28.38	0.345	0.168
93	184.	178.	28.39	0.34	0.1656
94	186.	180.	28.4	0.335	0.1632
95	188.	182.	28.41	0.325	0.1583
96	190.	184.	28.41	0.32	0.1559
97	192.	186.	28.42	0.31	0.151
98	194.	188.	28.42	0.306	0.1491
99	196.	190.	28.43	0.301	0.1466
100	198.	192.	28.43	0.296	0.1442
101	200.	194.	28.44	0.286	0.1393
102	202.	196.	28.45	0.281	0.1369
103	204.	198.	28.45	0.276	0.1344
104	206.	200.	28.46	0.271	0.132
105	208.	202.	28.46	0.266	0.1296
106	210.	204.	28.47	0.261	0.1271
107	212.	206.	28.47	0.256	0.1247
108	214.	208.	28.48	0.252	0.1227
109	216.	210.	28.48	0.246	0.1198
110	218.	212.	28.49	0.242	0.1179
111	222.	216.	28.49	0.237	0.1154
112	224.	218.	28.5	0.232	0.113
113	226.	220.	28.5	0.227	0.1106
114	228.	222.	28.51	0.222	0.1081
115	230.	224.	28.51	0.217	0.1057
116	232.	226.	28.52	0.212	0.1033
117	234.	228.	28.52	0.207	0.1008
118	236.	230.	28.53	0.202	9.839e-002
119	240.	234.	28.53	0.197	9.596e-002
120	242.	236.	28.54	0.192	9.352e-002
121	246.	240.	28.54	0.187	9.109e-002
122	248.	242.	28.55	0.183	8.914e-002
123	252.	246.	28.55	0.178	8.67e-002
124	254.	248.	28.56	0.173	8.427e-002
125	258.	252.	28.56	0.168	8.183e-002
126	260.	254.	28.57	0.163	7.94e-002
127	266.	260.	28.57	0.158	7.696e-002
128	268.	262.	28.58	0.153	7.453e-002
129	272.	266.	28.58	0.148	7.209e-002
130	276.	270.	28.59	0.143	6.965e-002
131	280.	274.	28.59	0.138	6.722e-002
132	282.	276.	28.6	0.133	6.478e-002
133	288.	282.	28.6	0.128	6.235e-002
134	292.	286.	28.61	0.123	5.991e-002
135	296.	290.	28.61	0.119	5.796e-002
136	304.	298.	28.62	0.114	5.553e-002
137	312.	306.	28.62	0.109	5.309e-002
138	316.	310.	28.63	0.104	5.066e-002
139	324.	318.	28.63	9.9e-002	4.822e-002

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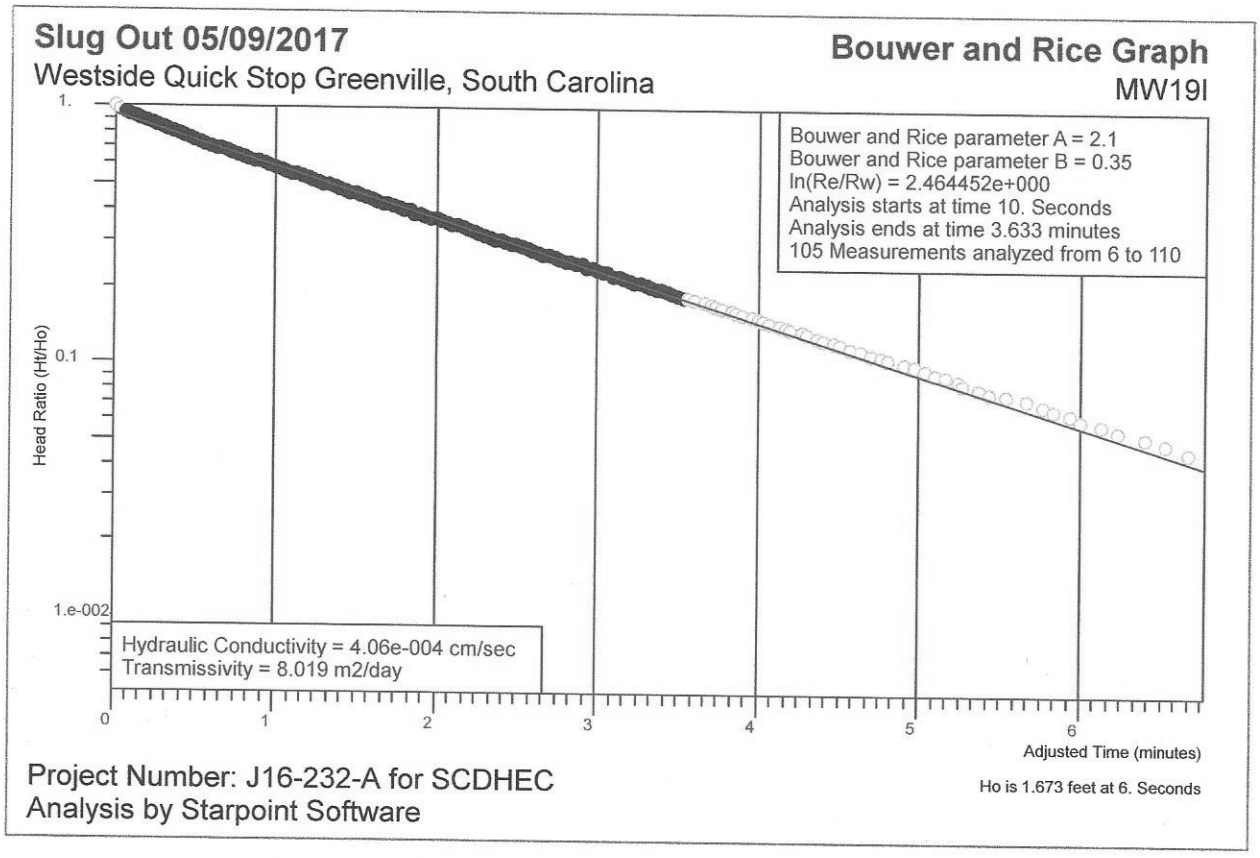
Slug Out 05/09/2017
Bouwer and Rice Graph
Westside Quick Stop Greenville, South Carolina
MW19I
Bouwer and Rice parameter A = 2.1
Bouwer and Rice parameter B = 0.35
ln(Re/Rw) = 2.464452e+000
Analysis starts at time 10. Seconds
Analysis ends at time 3.633 minutes
105 Measurements analyzed from 6 to 110
Head Ratio (Ht/Ho)
1.
0.1
1.e-002
Hydraulic Conductivity = 4.06e-004 cm/sec
Transmissivity = 8.019 m2/day
0
1
2
3
4
5
6
Adjusted Time (minutes)
Project Number: J16-232-A for SCDHEC
Analysis by Starpoint Software
Ho is 1.673 feet at 6. Seconds

Slug Out

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	05/09/2017
Client:	SCDHEC
Project Number:	J16-232-A
Import File:	C:\Users\Petratechenv2\Documents\Sync\Petra-Tech Environmental\Public\232

Well Label:	MW19I
Aquifer Thickness:	75. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.25 feet
Static Water Level:	28.73 feet
Water Table to Screen Bottom:	41.58 feet
Anisotropy Ratio:	1.
Time Adjustment:	6. Seconds

Test starts with trial 3
There are 157 time and drawdown measurements
Maximum head is 1.673 feet
Minimum head is -9.4e-002 feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-6.	28.73	0.	0.
2	2.	-4.	28.64	-9.4e-002	-5.619e-002
3	4.	-2.	29.5	0.772	0.4614
4	6.	0.	30.4	1.673	1.
5	8.	2.	30.36	1.633	0.9761
6	10.	4.	30.32	1.594	0.9528
7	12.	6.	30.29	1.56	0.9325
8	14.	8.	30.26	1.53	0.9145
9	16.	10.	30.23	1.501	0.8972
10	18.	12.	30.2	1.471	0.8793
11	20.	14.	30.17	1.442	0.8619
12	22.	16.	30.15	1.417	0.847
13	24.	18.	30.12	1.392	0.832
14	26.	20.	30.09	1.363	0.8147
15	28.	22.	30.07	1.343	0.8027
16	30.	24.	30.05	1.318	0.7878
17	32.	26.	30.02	1.294	0.7735
18	34.	28.	30.	1.274	0.7615
19	36.	30.	29.98	1.25	0.7472
20	38.	32.	29.96	1.23	0.7352
21	40.	34.	29.94	1.21	0.7233
22	42.	36.	29.91	1.185	0.7083
23	44.	38.	29.9	1.166	0.697
24	46.	40.	29.88	1.146	0.685
25	48.	42.	29.86	1.127	0.6736
26	50.	44.	29.84	1.112	0.6647
27	52.	46.	29.82	1.092	0.6527
28	54.	48.	29.8	1.072	0.6408
29	56.	50.	29.79	1.058	0.6324
30	58.	52.	29.77	1.038	0.6204
31	60.	54.	29.75	1.023	0.6115
32	62.	56.	29.73	1.004	0.6001
33	64.	58.	29.72	0.989	0.5912

34	66.	60.	29.7	0.974	0.5822
35	68.	62.	29.69	0.959	0.5732
36	70.	64.	29.67	0.944	0.5643
37	72.	66.	29.66	0.93	0.5559
38	74.	68.	29.65	0.915	0.5469
39	76.	70.	29.63	0.9	0.538
40	78.	72.	29.61	0.885	0.529
41	80.	74.	29.6	0.871	0.5206
42	82.	76.	29.59	0.861	0.5146
43	84.	78.	29.58	0.846	0.5057
44	86.	80.	29.56	0.831	0.4967
45	88.	82.	29.55	0.821	0.4907
46	90.	84.	29.54	0.807	0.4824
47	92.	86.	29.52	0.792	0.4734
48	94.	88.	29.51	0.782	0.4674
49	96.	90.	29.5	0.772	0.4614
50	98.	92.	29.49	0.757	0.4525
51	100.	94.	29.48	0.748	0.4471
52	102.	96.	29.46	0.733	0.4381
53	104.	98.	29.45	0.723	0.4322
54	106.	100.	29.44	0.713	0.4262
55	108.	102.	29.43	0.703	0.4202
56	110.	104.	29.42	0.693	0.4142
57	112.	106.	29.41	0.684	0.4088
58	114.	108.	29.4	0.669	0.3999
59	116.	110.	29.39	0.664	0.3969
60	118.	112.	29.38	0.649	0.3879
61	120.	114.	29.37	0.639	0.3819
62	122.	116.	29.36	0.629	0.376
63	124.	118.	29.35	0.62	0.3706
64	126.	120.	29.35	0.615	0.3676
65	128.	122.	29.34	0.605	0.3616
66	130.	124.	29.32	0.595	0.3556
67	132.	126.	29.32	0.585	0.3497
68	134.	128.	29.31	0.58	0.3467
69	136.	130.	29.3	0.57	0.3407
70	138.	132.	29.29	0.56	0.3347
71	140.	134.	29.28	0.551	0.3293
72	142.	136.	29.28	0.546	0.3264
73	144.	138.	29.27	0.536	0.3204
74	146.	140.	29.26	0.526	0.3144
75	148.	142.	29.25	0.516	0.3084
76	150.	144.	29.24	0.511	0.3054
77	152.	146.	29.24	0.506	0.3025
78	154.	148.	29.23	0.497	0.2971
79	156.	150.	29.22	0.492	0.2941
80	158.	152.	29.21	0.482	0.2881
81	160.	154.	29.21	0.477	0.2851
82	162.	156.	29.2	0.467	0.2791
83	164.	158.	29.19	0.462	0.2762
84	166.	160.	29.18	0.452	0.2702
85	168.	162.	29.18	0.447	0.2672
86	170.	164.	29.17	0.442	0.2642
87	172.	166.	29.16	0.433	0.2588
88	174.	168.	29.16	0.428	0.2558
89	176.	170.	29.15	0.423	0.2528
90	178.	172.	29.15	0.418	0.2499

91	180.	174.	29.14	0.413	0.2469
92	182.	176.	29.13	0.403	0.2409
93	184.	178.	29.13	0.398	0.2379
94	186.	180.	29.12	0.393	0.2349
95	188.	182.	29.12	0.388	0.2319
96	190.	184.	29.11	0.383	0.2289
97	192.	186.	29.1	0.373	0.223
98	194.	188.	29.1	0.369	0.2206
99	196.	190.	29.09	0.364	0.2176
100	198.	192.	29.09	0.359	0.2146
101	200.	194.	29.08	0.354	0.2116
102	202.	196.	29.08	0.349	0.2086
103	204.	198.	29.07	0.344	0.2056
104	206.	200.	29.07	0.339	0.2026
105	208.	202.	29.06	0.334	0.1996
106	210.	204.	29.06	0.329	0.1967
107	212.	206.	29.05	0.324	0.1937
108	214.	208.	29.05	0.319	0.1907
109	216.	210.	29.05	0.315	0.1883
110	218.	212.	29.04	0.31	0.1853
111	220.	214.	29.04	0.305	0.1823
112	222.	216.	29.03	0.3	0.1793
113	226.	220.	29.03	0.295	0.1763
114	228.	222.	29.02	0.29	0.1733
115	230.	224.	29.02	0.285	0.1704
116	232.	226.	29.01	0.28	0.1674
117	236.	230.	29.	0.275	0.1644
118	238.	232.	29.	0.27	0.1614
119	240.	234.	29.	0.265	0.1584
120	244.	238.	28.99	0.26	0.1554
121	246.	240.	28.99	0.255	0.1524
122	248.	242.	28.98	0.251	0.15
123	250.	244.	28.98	0.246	0.147
124	254.	248.	28.97	0.241	0.1441
125	256.	250.	28.97	0.236	0.1411
126	258.	252.	28.96	0.231	0.1381
127	262.	256.	28.96	0.226	0.1351
128	264.	258.	28.95	0.221	0.1321
129	268.	262.	28.95	0.216	0.1291
130	270.	264.	28.94	0.211	0.1261
131	274.	268.	28.94	0.206	0.1231
132	276.	270.	28.93	0.201	0.1201
133	280.	274.	28.93	0.196	0.1172
134	284.	278.	28.92	0.192	0.1148
135	288.	282.	28.92	0.186	0.1112
136	292.	286.	28.91	0.182	0.1088
137	294.	288.	28.91	0.177	0.1058
138	300.	294.	28.9	0.172	0.1028
139	304.	298.	28.9	0.167	9.982e-002
140	308.	302.	28.89	0.162	9.683e-002
141	312.	306.	28.89	0.157	9.384e-002
142	316.	310.	28.88	0.152	9.085e-002
143	320.	314.	28.88	0.147	8.787e-002
144	322.	316.	28.87	0.142	8.488e-002
145	328.	322.	28.87	0.137	8.189e-002
146	332.	326.	28.86	0.132	7.89e-002
147	338.	332.	28.86	0.128	7.651e-002

148	346.	340.	28.85	0.123	7.352e-002
149	352.	346.	28.85	0.118	7.053e-002
150	356.	350.	28.84	0.113	6.754e-002
151	362.	356.	28.84	0.108	6.455e-002
152	366.	360.	28.83	0.103	6.157e-002
153	374.	368.	28.83	9.8e-002	5.858e-002
154	380.	374.	28.82	9.3e-002	5.559e-002
155	390.	384.	28.82	8.8e-002	5.26e-002
156	398.	392.	28.81	8.3e-002	4.961e-002
157	406.	400.	28.81	7.8e-002	4.662e-002

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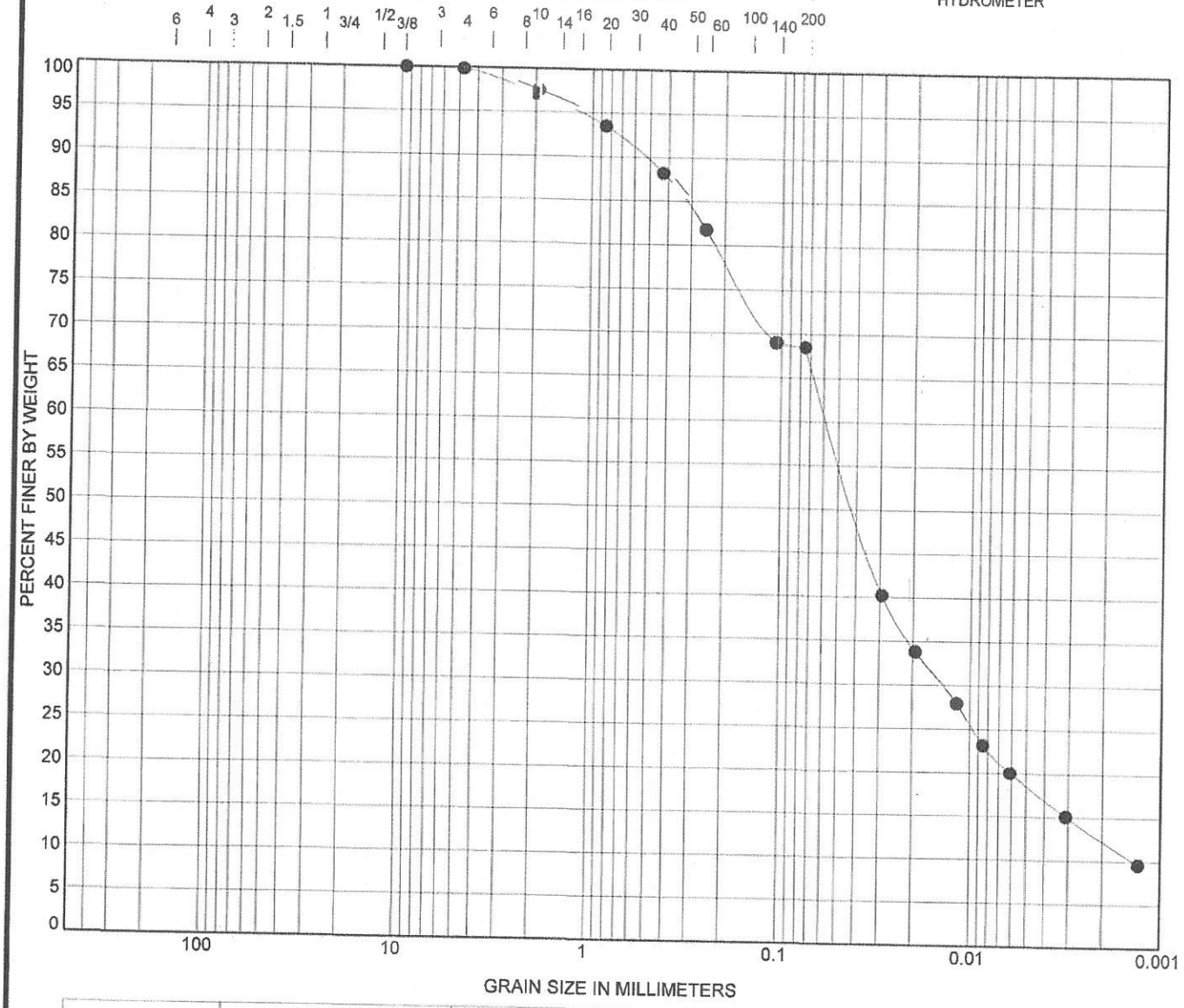
GRAIN SIZE DISTRIBUTION



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

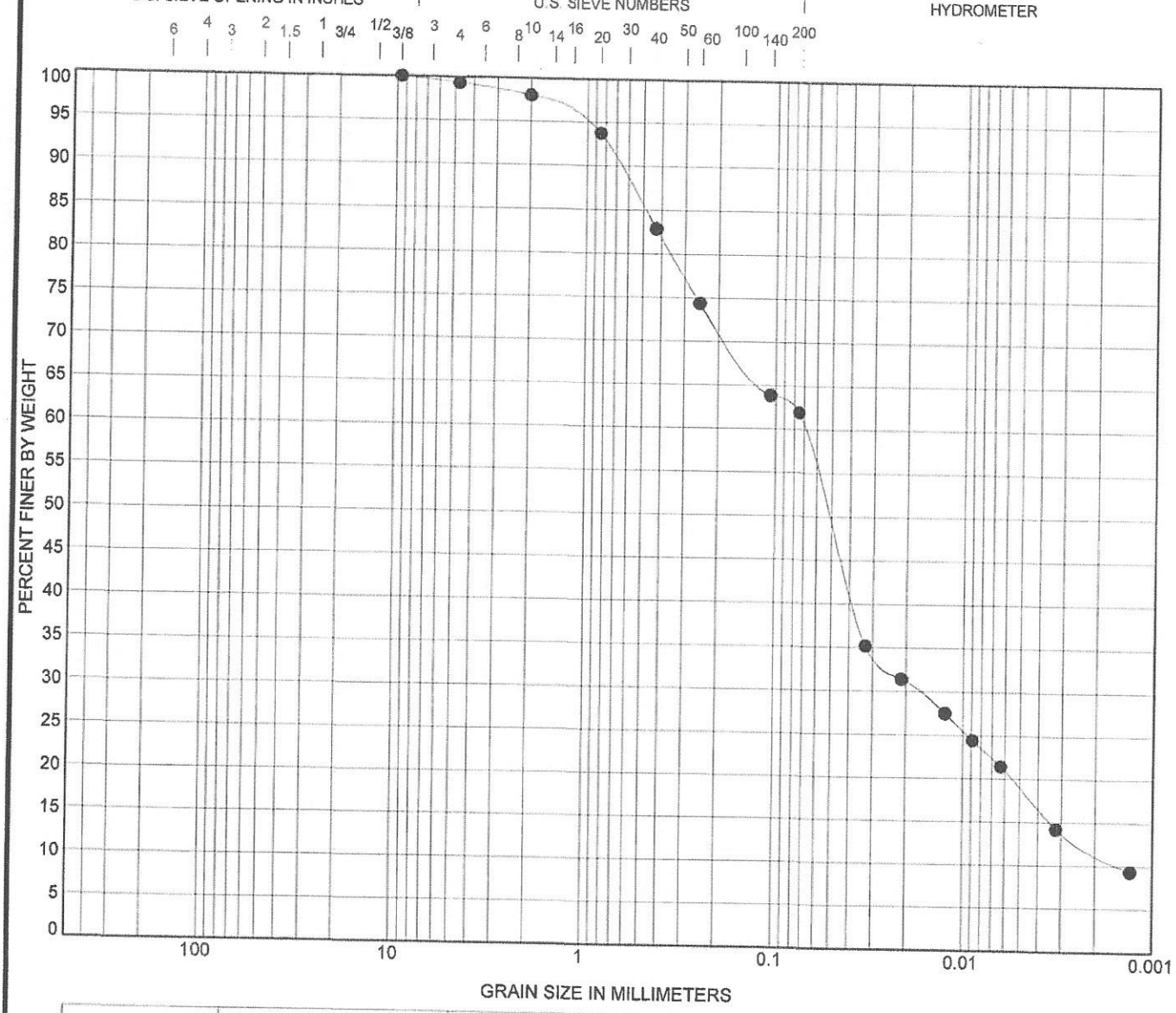
Specimen Identification		Classification	LL	PL	PI	Cc	Cu
● 12430-MW16	25.0					2.50	40.90

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 12430-MW16	25.0	9.525	0.056	0.014	0.001	0.1	31.3	50.0	18.6

SHIELD ENGINEERING, INC.
4301 Taggart Creek Road
Charlotte, NC 28208
Telephone: 704-394-6913
Toll Free: 800-395-5220
Fax: 704-394-6968

Pace Project No.: 92339705
Pace Lab ID: 92339705001
Pace Analytical
Shield Project No.: 1100026-01

GRAIN SIZE DISTRIBUTION



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

Specimen Identification		Classification	LL	PL	PI	Cc	Cu
● 12430-MW16I	60.0					2.93	48.29

Specimen Identification		D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
● 12430-MW16I	60.0	9.525	0.071	0.017	0.001	0.7	37.4	43.0	19.0

SHIELD ENGINEERING, INC.
4301 Taggart Creek Road
Charlotte, NC 28208
Telephone: 704-394-6913
Toll Free: 800-395-5220
Fax: 704-394-6968

Pace Project No.: 92339705
Pace Lab ID: 92339705002
Pace Analytical
Shield Project No.: 1100026-01

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX G

DISPOSAL MANIFESTS AND WEIGHT TICKETS

3833
NUMBER
O CODE
5BDEE

CERTIFIED
AUTOMATED
TRUCK
SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Com guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free), or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

WEIGH TO W
SWEEPSTAKES
Register to win a new truck at weightowin.com
Instant prizes too!

COMPLETE OFFICIAL RULES AVAILABLE AT WEIGHTOWIN.COM

DATE: 3-09-2017

651 SCALE: 745

80533833 LOCATION: PILOT
I 85 EXIT35
PIEDMONT SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	3960	lb
DRIVE AXLE	6540	lb
TRAILER AXLE	8080	lb
* GROSS WEIGHT	18580	lb

x 7120 lbs net
3.56 Tons

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

F250 + Small Dump Trailer

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: PETRO TECH

TRACTOR #: 001

TRAILER #: SMALL DUM

WEIGH NUMBER
3833

FEE: $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: KALI HIBBERT

FULL WEIGH TICKET # (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE:

CUSTOMER COPY

© CAT Scale® Reg 7020 01/17

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 1514012

Customer Name PETRATECHENVIRO PETRA-TECH EN
Ticket Date 02/21/2017
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile 605496SC (DRILL CUTTINGS)
Generator 126-PETRATECHENVIRO PETRA-TECH ENVIRONMENTAL, LLC

Carrier petra tech Eniviro Petra Tech
Vehicle# 1
Container
Driver
Check#
Billing # 0001043
Gen EPA ID NR
Volume

	Time	Scale	ScaleMaster		
In	02/21/2017 08:01:59	Inbound #2	Dwayne	Gross	20380 lb
Out	02/21/2017 08:17:13	Outbound	Dwayne	Tare	11460 lb
				Net	8920 lb
				Tons	4.46

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T	100	4.46	Tons				34-MARION
2	RCR-P-Regulatory C	100		%				34-MARION
3	FUEL-Fuel Surcharg	100		%				34-MARION
4	EVF-P-Standard Env	100		%				34-MARION

F250 w/ Small Dump Trailer

Total Fees
Total Ticket

SIGNATURE

403WM

Standard Register

CC762228-AD (08-15)

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: 05-55897.

5. Generator's Name and Mailing Address: Petra-Tech
2435 E. North St, Ste 1108-202

Generator's Site Address (if different than mailing address): SCDHEC UST Permitted

Generator's Phone: 864/436/6322

6. Transporter 1 Company Name: Petra-Tech Env/ERGS — U.S. EPA ID Number:

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: Twin Chimneys Landfill
Honea Path, SC — U.S. EPA ID Number: # 231001-1102

Facility's Phone: 864/243/9672

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Haz/Non Regulated Soil Cuttings Profile # 231001-1102	1	Trnk			
2.				3.56	tons ticket	
3.				see attached	80	533833
4.						

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Petra-Tech Env/ERGS — Signature — Month: 3 Day: 9 Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Petra-Tech Env/ERGS — Signature — Month: 3 Day: 9 Year: 17

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month: 3 Day: 9 Year: 17

GC Labels • Printed in the USA
1-800-997-6966

COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

Greenville County Solid Waste
11075 Augusta Road
Honea Path, SC 29654
Phone (864) 243-9672
Fax (864) 243-5276

4/3/2017

Customer Petra-Tech Environmental LLC
Account 466

Account Transaction listing for Month
March 2017

Date	Ticket	Vehicle #	Reference	Description	Quantity	Amount
Adjustment Transactions						
03/31/2017	01 - 920477		LATE FEE	Late Charge Fee	1.00	
					1.00	
Current Charges						
03/09/2017	05 - 55897			WW	5.00	
03/14/2017	05 - 56048			WW	5.00	
03/17/2017	05 - 56165			WW	4.00	
03/23/2017	05 - 56381			WW	5.00	
03/23/2017	05 - 56385			WW	3.00	
03/29/2017	05 - 56568			WW	2.00	
					24.00	

Solid Waste Division

Marcia L. Papin
Solid Waste Manager
Mpapin@greenvillecounty.org

(864) 243-9672

www.greenvillecounty.org

Expiration Date: October 25, 2018

Petra-Tech Environmental
Attn: Lindsey Grooms
2435 E. North Street
Suite 1108-202
Greenville South Carolina 29614

RE: Disposal Requirements for Drill Cuttings at Twin Chimneys Landfill – Facility ID #231001-1102

Mr. Grooms:

This office has determined that drill cuttings are suitable for disposal in the Twin Chimneys Landfill in Greenville County. I have received and reviewed your analytical data. Please have your hauler reference the special waste identification number SW-00065 when disposing of this material. The materials for disposal are as outlined:

Reddish brown, dry soil

All disposals are subject to the following conditions:

1. May be brought to the landfill during the hours of 7:30 a.m. to ~~3:00~~ 4:30 p. m., Monday through Friday.

2. Waste must be in solid form. No liquid or hazardous waste will be accepted.

3. Precautions must be taken to prevent leaking or spillage during transport.

4. Special handling waste must be brought in separately from other waste. Otherwise, the entire load will be charged at a special handling rate,

5. Drums must be triple rinsed, with holes punched in them. Lids must be removed prior to disposal.

6. The driver must notify the weigh master of the waste origin and the type of waste in the load.

7. All waste approved by this letter must come into the Twin Chimneys Landfill; otherwise, this letter becomes null and void.

8. The current charge will be _ per ton. Rates are subject to change by ordinance of County Council. If you or your haulers are not on the charge system, you must pay at the gate with cash or a company check.

9. This letter will run for FIVE YEARS ONLY. When a company notifies this office in writing of the unchanged nature of the waste stream and quantities involved, another approval may be issued pending the Solid Waste Department s evaluation. A Company whose waste stream and quantities have changed will need to reflect these changes in their communication.

10. Violations of any of the conditions in this approval will result in immediate termination of this approval by the Solid Waste Division.

11. Disposal must not have adverse effects upon the landfill proper, nor upon the safe and efficient operation of the landfill.

12. All containers deemed empty and landfilled will conform to the Solid Waste Division's definition of empty.

THERE SHALL BE NO EXCEPTIONS TO THIS POLICY

If you have any questions concerning this approval, please do not hesitate to contact this office at (864) 243-9672.

Sincerely,

Marcia Papin
Solid Waste Manager

cc: File

Greenville County Square 301 University Ridge. Suite 3800 Greenville. S. C. 29601-3660 Telefax (864) 243-5276

30534121
TICKET NUMBER

PROMO CODE
VYT4879X

CERTIFIED
AUTOMATED
TRUCK
SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company gu[illegible]ees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free), or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

WEIGH TO WIN SWEEPSTAKES

Register to win a new truck at weightowin.com Instant prizes too!

COMPLETE OFFICIAL RULES AVAILABLE AT WEIGHTOWIN.COM

DATE: 3-14-2017

1011 **SCALE:** 745
80534121 **LOCATION:** PILOT
I 85 EXIT35
PIEDMONT SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	3820	lb
DRIVE AXLE	9060	lb
TRAILER AXLE	12660	lb
* GROSS WEIGHT	25540	lb

White Bid dT 3500
Net 6.49 tons

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: PETRATECH
TRACTOR #: 001
TRAILER #: BDT

WEIGH NUMBER
4121

FEE $11.00

WEIGHMASTER OR WEIGHER SIGNATURE: MISSY CLARK

FULL WEIGH TICKET # (IF REWEIGH)

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

CUSTOMER COPY

© CAT Scale® Reg 7020 01/17

18[illegible]11549
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE C[illegible]SCALE G[illegible]ANTEE

The CAT Scale Company guarantees that our [illegible]es will give [illegible] accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE!

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 1-19-2017

SCALE: 1241
LOCATION: 18311549
745
PILOT
I 85 EXIT35
PIEDMONT SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	4140 lb
DRIVE AXLE	5360 lb
TRAILER AXLE	3060 lb
* GROSS WEIGHT	12560 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

White 3500 w/ High Side Dump Trailer (Empty)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: PETROTEC

TRACTOR #: 1001 TRAILER #: 0

WEIGH NUMBER 1541

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: MISSY CLARK

FULL WEIGH TICKET # (IF REWEIGH): 18311541

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

© CAT Scale® Reg 3059 07/16

CUSTOMER COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number: 8053412 1

GENERATOR

5. Generator's Name and Mailing Address: Petra-Tech Env / 2435 E. North St. Suite 108-702

Generator's Site Address (if different than mailing address): SCDHEC UST

Generator's Phone: 843-436-6322

6. Transporter 1 Company Name

U.S. EPA ID Number

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address: Twin Chimneys Landfill / 11025 Augusta Rd / Hwy 64 Path, SC 29654

U.S. EPA ID Number: # 231001410 2

Facility's Phone: ~~843~~ 864-243-9672

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Haz) Non Reg Petroleum Soil cuttings waste Profile # 231001-1102	1	Trlr	6.49	tons
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Petra-Tech Env/ERGS

Signature

Month 3 Day 14 Year 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Petra-Tech Env/ ERGS

Signature

Month 3 Day 14 Year 17

Transporter 2 Printed/Typed Name

Signature

Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)

U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator)

Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name

Signature

Month 3 Day 14 Year 17

GC Labels • Printed in the USA
1-800-997-6966

DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

Greenville County Solid Waste
11075 Augusta Road
Honea Path, SC 29654
Phone (864) 243-9672
Fax (864) 243-5276

4/3/2017

Customer Petra-Tech Environmental LLC
Account 466

Account Transaction listing for Month
March 2017

Date	Ticket	Vehicle #	Reference	Description	Quantity	Amount
Adjustment Transactions						
03/31/2017	01 - 920477		LATE FEE	Late Charge Fee	1.00	
					1.00	
Current Charges						
03/09/2017	05 - 55897			WW	5.00	
03/14/2017	05 - 56048			WW	5.00	
03/17/2017	05 - 56165			WW	4.00	
03/23/2017	05 - 56381			WW	5.00	
03/23/2017	05 - 56385			WW	3.00	
03/29/2017	05 - 56568			WW	2.00	
					24.00	

Solid Waste Division

Marcia L. Papin
Solid Waste Manager
Mpapin@greenvillecounty.org

(864) 243-9672

www.greenvillecounty.org

Expiration Date: October 25, 2018

Petra-Tech Environmental
Attn: Lindsey Grooms
2435 E. North Street
Suite 1108-202
Greenville South Carolina 29614

RE: Disposal Requirements for Drill Cuttings at Twin Chimneys Landfill – Facility ID #231001-1102

Mr. Grooms:

This office has determined that drill cuttings are suitable for disposal in the Twin Chimneys Landfill in Greenville County. I have received and reviewed your analytical data. Please have your hauler reference the special waste identification number SW-00065 when disposing of this material. The materials for disposal are as outlined:

Reddish brown, dry soil

All disposals are subject to the following conditions:

1. May be brought to the landfill during the hours of 7:30 a.m. to ~~3:00~~ 4:30 p. m., Monday through Friday.

2. Waste must be in solid form. No liquid or hazardous waste will be accepted.

3. Precautions must be taken to prevent leaking or spillage during transport.

4. Special handling waste must be brought in separately from other waste. Otherwise, the entire load will be charged at a special handling rate,

5. Drums must be triple rinsed, with holes punched in them. Lids must be removed prior to disposal.

6. The driver must notify the weigh master of the waste origin and the type of waste in the load.

7. All waste approved by this letter must come into the Twin Chimneys Landfill; otherwise, this letter becomes null and void.

8. The current charge will be _ per ton. Rates are subject to change by ordinance of County Council. If you or your haulers are not on the charge system, you must pay at the gate with cash or a company check.

9. This letter will run for FIVE YEARS ONLY. When a company notifies this office in writing of the unchanged nature of the waste stream and quantities involved, another approval may be issued pending the Solid Waste Department s evaluation. A Company whose waste stream and quanctities have changed will need to reflect these changes in their communication.

10. Violations of any of the conditions in this approval will result in immediate termination of this approval by the Solid Waste Division.

11. Disposal must not have adverse effects upon the landfill proper, nor upon the safe and efficient operation of the landfill.

12. All containers deemed empty and landfilled will conform to the Solid Waste Division's definition of empty.

THERE SHALL BE NO EXCEPTIONS TO THIS POLICY

If you have any questions concerning this approval, please do not hesitate to contact this office at (864) 243-9672.

Sincerely,

Marcia Papin
Solid Waste Manager

cc: File

2169[illegible]3
TICKET NUMBER

PROMO CODE
8IX96712

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARA[illegible]E

The CAT Scale Company guarantees that our scales will give a[illegible]urate weigh[illegible]t makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free), or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

WEIGH TO WIN SWEEPSTAKES
Register to win a new truck at weightowin.com Instant prizes too!

COMPLETE OFFICIAL RULES AVAILABLE AT WEIGHTOWIN.COM

DATE: 2-16-2017

SCALE: 1109
LOCATION: 78216983 745 PILOT I 85 EXIT35 PIEDMONT SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	4540 lb
DRIVE AXLE	4220 lb
TRAILER AXLE	3680 lb
* GROSS WEIGHT	12440 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

F250 Big Dump Trailer (Empty)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: PETROTECO

TRACTOR #: 1 TRAILER #: 0

WEIGH NUMBER 6973

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: MISSY CLARK

FULL WEIGH TICKET # (IF REWEIGH): 78216973

* DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 7020 01/17

81761279
TICKET NUMBER

PROMO CODE
CEFJ6424

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. W[illegible]akes us different from other scale companies is that we back up our guarantee with cas[illegible]

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
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WEIGH TO WIN SWEEPSTAKES
Register to win a new truck at weightowin.com Instant prizes too!

COMPLETE OFFICIAL RULES AVAILABLE AT WEIGHTOWIN.COM

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 3-23-2017

1450
81761279
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

SCALE: 745
LOCATION: PILOT
I 85 EXIT35
PIEDMONT SC

STEER AXLE	4260	lb
DRIVE AXLE	6020	lb
TRAILER AXLE	7820	lb
* GROSS WEIGHT	18100	lb

x5660 16 snot
2.83 T

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

F250 + Big Dump Trailer

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: PETRATECH

TRACTOR #: 1 TRAILER #: 0

WEIGHMASTER OR WEIGHER SIGNATURE: SISSI LEOPARD

FULL WEIGH TICKET # (IF REWEIGH):

WEIGH NUMBER 1279

FEE $11.00

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

© CAT Scale® Reg 7020 01/17

CUSTOMER COPY

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | **4. Waste Tracking Number** 05-56385

GENERATOR

5. Generator's Name and Mailing Address: Petra-Tech Env
2435 E. North St ste 1108-202
Greenville, SC 29615
Generator's Phone: 843 436 6322

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Petra-Tech/ERGS — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: Twin Chimneys Landfill
11075 Augusta Rd
Ilunea Path, SC 29654
864 243 9672
Facility's Phone: — U.S. EPA ID Number: #231001-1102

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Haz/Non Regulated Petroleum Soil Waste Profile, #231001-1102	1	Dump Trailer	2.33	Tons
2.				See Attached	
3.				Ticket	
4.				#81762	

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Petra-Tech Env — Signature — Month 03 Day 23 Year 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Petra-Tech Env/ERGS — Signature — Month 03 Day 23 Year 17

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month 3 Day 23 Year 17

TRANSPORTER #2

GC Labels • Printed in the USA
1-800-997-6966

Reorder Part# MANIFEST-C6NHWC
913-897-6966

Greenville County Solid Waste
11075 Augusta Road
Honea Path, SC 29654
Phone (864) 243-9672
Fax (864) 243-5276

Customer Petra-Tech Environmental LLC
Account 466

Account Transaction listing for Month
March 2017

Date	Ticket	Vehicle #	Reference	Description	Quantity	Amount
Adjustment Transactions						
03/31/2017	01 - 920477		LATE FEE	Late Charge Fee	1.00	
					1.00	
Current Charges						
03/09/2017	05 - 55897			WW	5.00	
03/14/2017	05 - 56048			WW	5.00	
03/17/2017	05 - 56165			WW	4.00	
03/23/2017	05 - 56381			WW	5.00	
03/23/2017	05 - 56385			WW	3.00	
03/29/2017	05 - 56568			WW	2.00	
					24.00	

Solid Waste Division

Marcia L. Papin
Solid Waste Manager
Mpapin@greenvillecounty.org

(864) 243-9672

www.greenvillecounty.org

Expiration Date: October 25, 2018

Petra-Tech Environmental
Attn: Lindsey Grooms
2435 E. North Street
Suite 1108-202
Greenville South Carolina 29614

RE: Disposal Requirements for Drill Cuttings at Twin Chimneys Landfill – Facility ID #231001-1102

Mr. Grooms:

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Reddish brown, dry soil

All disposals are subject to the following conditions:

1. May be brought to the landfill during the hours of 7:30 a.m. to ~~3:00~~ 4:30 p. m., Monday through Friday.

2. Waste must be in solid form. No liquid or hazardous waste will be accepted.

3. Precautions must be taken to prevent leaking or spillage during transport.

4. Special handling waste must be brought in separately from other waste. Otherwise, the entire load will be charged at a special handling rate,

5. Drums must be triple rinsed, with holes punched in them. Lids must be removed prior to disposal.

6. The driver must notify the weigh master of the waste origin and the type of waste in the load.

7. All waste approved by this letter must come into the Twin Chimneys Landfill; otherwise, this letter becomes null and void.

8. The current charge will be _ per ton. Rates are subject to change by ordinance of County Council. If you or your haulers are not on the charge system, you must pay at the gate with cash or a company check.

9. This letter will run for FIVE YEARS ONLY. When a company notifies this office in writing of the unchanged nature of the waste stream and quantities involved, another approval may be issued pending the Solid Waste Department s evaluation. A Company whose waste stream and quantities have changed will need to reflect these changes in their communication.

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12. All containers deemed empty and landfilled will conform to the Solid Waste Division's definition of empty.

THERE SHALL BE NO EXCEPTIONS TO THIS POLICY

If you have any questions concerning this approval, please do not hesitate to contact this office at (864) 243-9672.

Sincerely,

Marcia Papin
Solid Waste Manager

cc: File

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				WTN 000746

5. Generator's Name and Mailing Address
EBGS / DHEC
2433 E North St. Suite 1108-158
Greenville, SC 29615
Generator's Phone: (864) 248-0018

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name
EBGS, LLC
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 S. Main St
Mauldin, SC
Facility's Phone: (864) 352 9953
U.S. EPA ID Number
SCR 000762468

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non HCL / Non RCS Well water # 16374	1	pvc Tank	300	gal
2.	Reliance Petroleum (Former Sugar Bears) SCDHEC UST # 12052	~85	gallons		
3.	Decon Water / Development Water Westside Quick Stop	~215	gallons		
4.	SCDHEC UST # 12430 Contact Water				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tyler Beaver
Signature: [signature]
Month 4 Day 10 Year 17

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tyler Beaver
Signature: [signature]
Month 4 Day 10 Year 17

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [signature]
Signature: [signature]
Month 4 Day 10 Year 17

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GC Labels • Printed in the USA
1-800-997-6966

DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number: WTN_ 005917117-1

5. Generator's Name and Mailing Address: PetraTech Env, LLC, 2435 E. North St. Ste 1108-202, Greenville, SC 29615

Generator's Site Address (if different than mailing address): SCDHEC, 2600 Bull St, Columbia, SC

Generator's Phone:

6. Transporter 1 Company Name: PetraTech Env, LLC — U.S. EPA ID Number: N/A

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: VLS Recovery Services, LLC, 305 S Main St, Mauldin, SC — U.S. EPA ID Number: SCR000762468

Facility's Phone: 864 352 9953

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Reg/Non Haz Well water #15314	2	PVC Tanks	610	gal
2. west side Quick Stop Purge water ~ 310 gallons Purge/Decon/Development water				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: DANIEL BURCH — Signature: [signature] — Month 5 Day 12 Year 17

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: DANIEL BURCH — Signature: [signature] — Month 5 Day 12 Year 17

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: [signature] — Signature: [signature] — Month 5 Day 12 Year 17

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GC Labels • Printed in the USA
1-800-997-6966

DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX H

ZONING REGULATIONS

Not Applicable to Current Scope of Work

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX I

LEACHABILITY AND FATE AND TRANSPORT MODELS

Not Applicable to Current Scope of Work

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX J

RIGHT-OF-ENTRY FORMS, LETTERS PROVIDING ABBREVIATED COPIES TO EACH PROPERTY OWNER

petra-tech
ENVIRONMENTAL, LLC

May 29, 2017

MR. MIKE WRIGHT
450 DOVE HILL CIRCLE
EASLEY, SC 29640

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J16-232-A

Dear property owner:

Please find enclosed a copy of the Tier II Assessment Report for your records. The report describes activities performed on behalf of UST Permit #12430 located at 821 West Parker Road in Greenville, Greenville County, South Carolina. The Tier II Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated October 10, 2016. The Tier II Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

If you have any questions regarding the above mentioned assessment report, please do not hesitate to contact us or the South Carolina Department of Health and Environmental Control (SCDHEC) at:

SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

petra-tech
ENVIRONMENTAL, LLC

May 29, 2017

DAVID ESPINOZA & LESLIE GUERRA
2209 W BLUE RIDGE DRIVE
GREENVILLE, SC 29611

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
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SCDHEC UST Permit #12430
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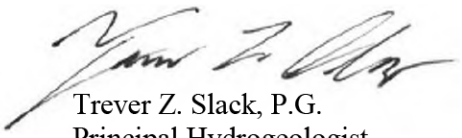
SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist

May 29, 2017

H&M Auto Sales
2216 W. Blue Ridge Drive
Greenville, SC 29611

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J16-232-A

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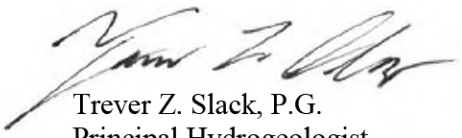
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist

May 29, 2017

Paul Mcintyre
118 Wicklon Court
Easley, SC 29642

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
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Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

petra-tech
ENVIRONMENTAL, LLC

May 29, 2017

RTC REAL ESTATE II LLC
149 LAKE FOREST CIRCLE
EASLEY, SC 29642

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J16-232-A

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Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

May 29, 2017

MICHAEL POORE
149 LAKE FOREST CIRCLE
EASLEY, SC 29642

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
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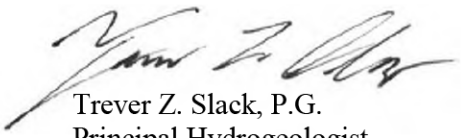
Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist

petra-tech
ENVIRONMENTAL, LLC

May 29, 2017

Cynthia & Crystal Blankenship
235 Louisville Drive
Greenville, SC 29607

Subject: **Tier II Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J16-232-A

Dear property owner:

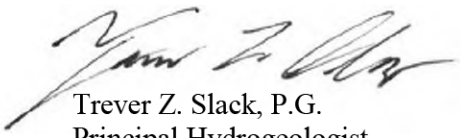
Please find enclosed a copy of the Tier II Assessment Report for your records. The report describes activities performed on behalf of UST Permit #12430 located at 821 West Parker Road in Greenville, Greenville County, South Carolina. The Tier II Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated October 10, 2016. The Tier II Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

If you have any questions regarding the above mentioned assessment report, please do not hesitate to contact us or the South Carolina Department of Health and Environmental Control (SCDHEC) at:

SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX K

QAPP CHECKLIST

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	✓		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?	✓		
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?	✓		
11	Has the site-specific geology and hydrogeology been described?	✓		
12	Has the primary soil type been described?	✓		
13	Have field screening results been described?	✓		
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?	✓		
16	Has the monitoring well installation and development dates been provided?	✓		
17	Has the method of well development been detailed?	✓		
18	*Has justification been provided for the locations of the monitoring wells?*	✓		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	✓		
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?	✓		
27	Does the report include a brief discussion of the fate & transport models used?			✓

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?	✓		
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)	✓		
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)	✓		
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)	✓		
48	Have the well completion logs, DHEC Form 2099, and DHEC Form 1903 been provided? (Appendix E)	✓		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)	✓		
50	Have the disposal manifests been provided? (Appendix G)	✓		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			✓
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		

Explanation for missing and incomplete information?

Project Verifier (signature) Mary K Jones

(print name) Mary K Jones

Date 5/29/2017

WESTSIDE QUICK STOP – UST PERMIT #12430
TIER II ASSESSMENT REPORT

APPENDIX L

QAPP CONTRACTOR ADDENDUM

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

July 9, 2016

SCDHEC - UST Management Division
Corrective Action Section
2600 Bull Street
Columbia, SC 29201-1708

Attention: Mr. Tom Knight, P.G.

Subject: **Site Specific Work Plan – Tier II Assessment**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J16-232-A

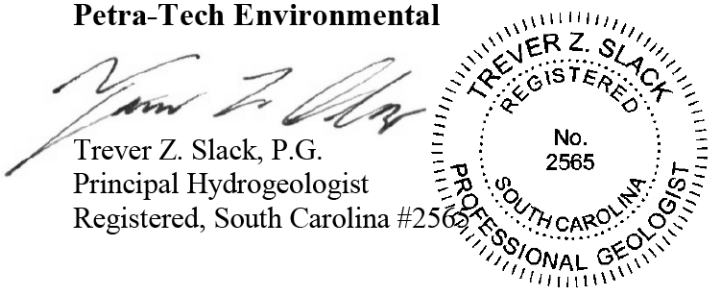
Dear Mr. Knight:

On behalf of Westside Quick Stop and Environmental Laboratories, Inc., Petra-Tech Environmental, LLC submits herein the completed Site Specific Work Plan for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) Site Specific Work Plan Directive dated June 6, 2016.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565

D H E C
PROMOTE PROTECT PROSPER

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Tom Knight, P.G. (SCDHEC Project Manager)
From: Trever Slack (Contractor Project Manager)
Contractor: Petra-Tech Environmental, LLC UST Contractor Certification Number: UCC-436

Facility Name: Westside Quick Stop UST Permit #: 12430
Facility Address: 821 West Parker Road, Greenville, Greenville County, South Carolina
Responsible Party: Shree Gajvakra LLC Attn: Ankur Patel Phone: 864.271.9400
RP Address: 205 Fairway Drive, Laurens, South Carolina 29360-7700
Property Owner (if different): Westside Quick Stop Inc / Mr. Mike Wright
Property Owner Address: 450 Dove Hill Circle, Easley, South Carolina 29640
Current Use of Property: Currently utilized as retail fueling station

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☑ Tier II
- ☐ Groundwater Sampling
- ☐ GAC
- ☐ Tier I
- ☐ Monitoring Well Installation
- ☐ Other

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☑ PAH (8270D)
- ☑ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ PAH
- ☐ 8 RCRA Metals
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

____ Soil	____ Water Supply Wells	____ Air	2 Field Blank
24 Monitoring Wells	____ Surface Water	2 Duplicate	4 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: 9 Estimated Footage: 28 feet per point
# of deep points proposed: ____ Estimated Footage: ____ feet per point
Field Screening Methodology: Direct push and field screening with PID & laboratory confirmation analysis IAW Annual QAPP

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: 8 Estimated Footage: 30 feet per point
# of deep wells: 5 Estimated Footage: 55 feet per point
# of recovery wells: ____ Estimated Footage: ____ feet per point
Monitoring Well development method (consistent with SOP): Surging with check valve, overpumping, and bailing IAW Annual QAPP
Comments, if warranted:
Deep wells will be installed as Type III, telescoping monitoring wells. 6-inch outer casing will be installed approximately five feet into the top of competent bedrock, grouted, and allowed to cure for a minimum of 24-hours. The wells will then be advanced into bedrock to the termination depth of the boring.

UST Permit #: 12430 Facility Name: Westside Quick Stop Inc

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 15 Field Work Completion: 60

Report Submittal: 90 # of Copies Provided to Property Owners: 5

Aquifer Characterization

Pump Test: ☐ Slug Test: ☑ (Check one and provide explanation below for choice)

Slug tests will be performed in two shallow and two deep monitoring wells to provide additional data on the hydrological characteristics of the transition zone (partially weathered rock) and their potential influence on plume migration.

Investigation Derived Waste Disposal

Soil: 5 Tons Purge Water: 220 Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

Name of Well Driller: _____

SCLLR Certification Number: _____

no Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.

2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:

North Arrow	Proposed monitoring well locations
Location of property lines	Legend with facility name and address, UST permit number, and bar scale
Location of buildings	Streets or highways (indicate names and numbers)
Previous soil sampling locations	Location of all present and former ASTs and USTs
Previous monitoring well locations	Location of all potential receptors
Proposed soil boring locations	

3. Assessment Component Cost Agreement, SCDHEC Form D-3664



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

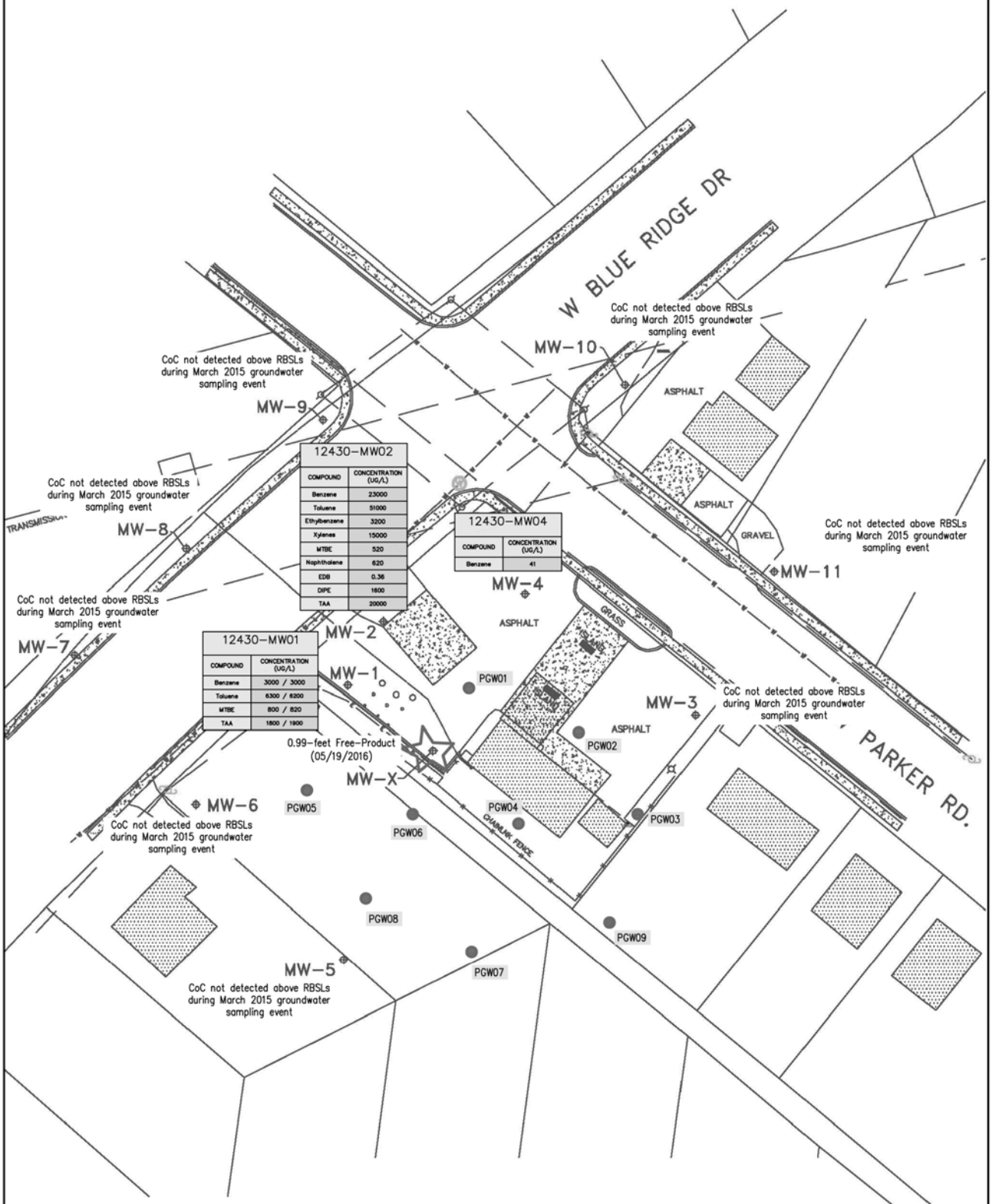
N

● SITE

Title	Site Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County
Date	07/01/2016
Job No.	J16-232-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 1



REFERENCE: Site Survey by Souther Land Surveying dated 16 April 2015

Groundwater Monitoring Well

Proposed Shallow Groundwater Screening Boring

60 30 0 60

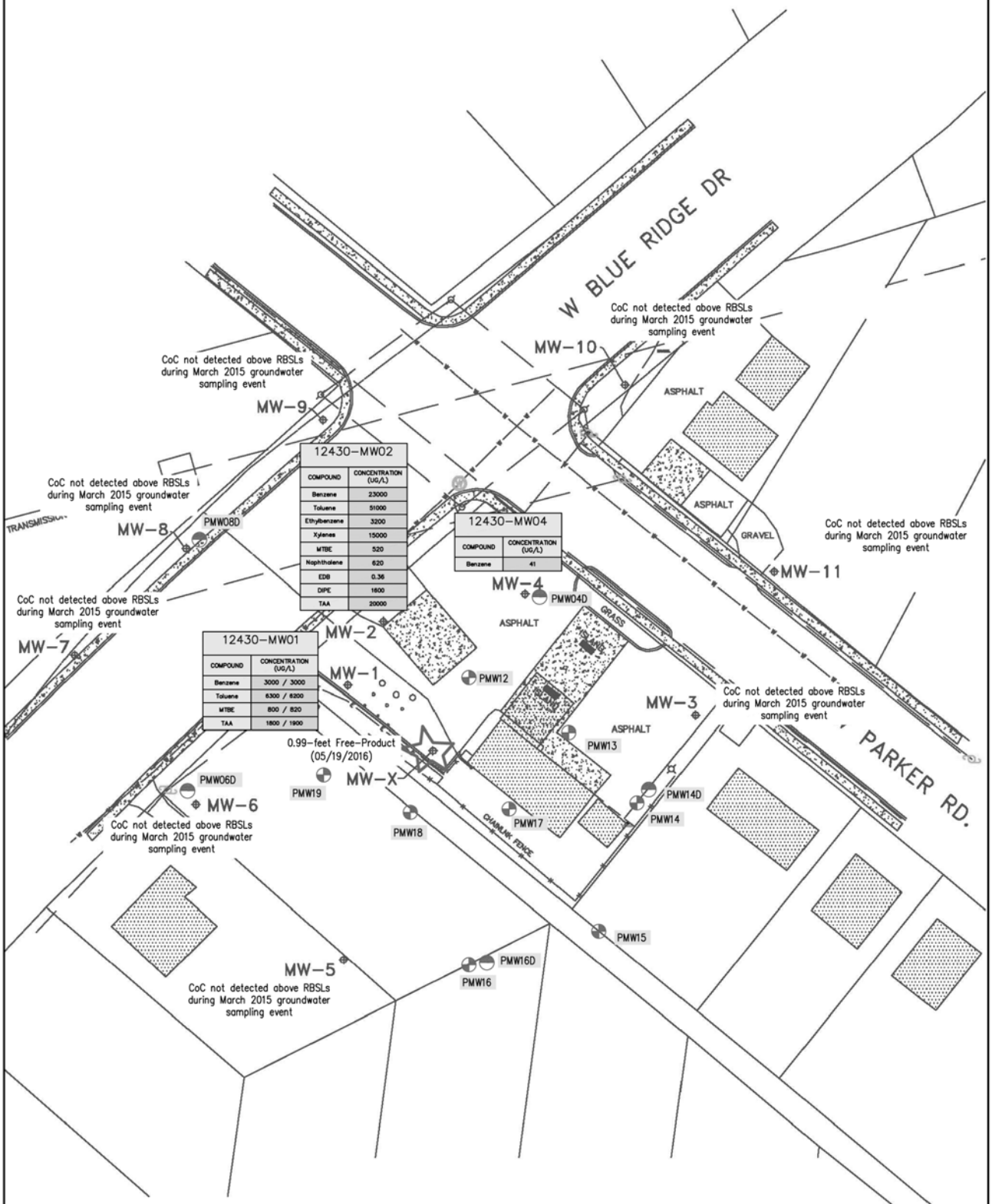
APPROXIMATE SCALE IN FEET

N

Title	Proposed Groundwater Screening Boring Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	07/04/2016
Job No.	J15-213-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2



REFERENCE: Site Survey by Souther Land Surveying dated 16 April 2015

Groundwater Monitoring Well

Proposed Shallow Groundwater Monitoring Well

Proposed Deep Groundwater Monitoring Well

60 30 0 60

APPROXIMATE SCALE IN FEET

N

Title	Proposed Monitoring Well Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	07/04/2016
Job No.	J15-213-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3

D H E C

PROMOTE PROTECT PROSPER

South Carolina Department of Health and Environmental Control

ASSESSMENT COMPONENT INVOICE

SOUTH CAROLINA

Department of Health and Environmental Control

Underground Storage Tank Management Division

State Underground Petroleum Environmental Response Bank Account

May 15, 2014

Facility Name: Westside Quick Stop

UST Permit #: 12430 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey ***		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment	2	each	$1,020.00	$2,040.00
B1. Personnel	5	each	$423.00	$2,115.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard	252	per foot	$15.00	$3,780.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less	252	per foot	$3.10	$781.20
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)	240	per foot	$38.00	$9,120.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling	275	per foot	$58.00	$15,950.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00

10. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
A1. Groundwater Purge	24	per well/receptor	$60.00		$1,440.00
B1. Air or Vapors		per receptor	$12.00		$0.00
C1. Water Supply		per well/receptor	$22.00		$0.00
D1. Groundwater (No Purge or Duplicate	2	per well/receptor	$28.00		$56.00
E1. Gauge Well only	1	per well	$7.00		$7.00
F1. Sample Below Product		per well	$12.00		$0.00
G1. Passive Diffusion Bag		each	$26.00		$0.00
H1. Field Blank	2	each	$24.60		$49.20
11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(82	32	per sample	$122.00		$3,904.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's	26	per sample	$60.60		$1,575.60
E1. Lead	26	per sample	$16.00		$416.00
F1. EDB by EPA 8011	28	per sample	$45.20		$1,265.60
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. **Analyses-Soil**					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. **Analyses-Air**					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. **Analyses-Free Phase Product**					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. **Aquifer Characterization**					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*	4	per test	$191.00		$764.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. **Free Product Recovery Rate Test***		each	$38.00		$0.00
14. **Fate/Transport Modeling**					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. **Risk Evaluation**					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. **Subsequent Survey***		each	$260.00		$0.00
17. **Disposal (gallons or tons)***					
AA. Wastewater	220	gallon	$0.56		$123.20
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal	5	ton	$60.00		$300.00
D1. Drilling fluids		gallon	$0.42		$0.00

18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00
23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Deli	5	each	$50.00		$250.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
II. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$44,086.80		$5,290.42
TOTAL					$49,377.22

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

dhec
Healthy People. Healthy Communities.

OCT 1 0 2016

SHREE GAJVAKRA LLC
ATTN: ANKUR PATEL
205 FAIRWAY DRIVE
LAURENS SOUTH CAROLINA 29360-7700

Re: Tier II Assessment Directive
Westside Quick Stop, 821 West Parker Road, Greenville, SC
UST Permit # 12430, CA#52649, UMW#26386
Release #2 Reported October 23, 2012
SSWP received July 15, 2016.
Greenville County

Dear Mr. Patel:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) has reviewed the referenced Site Specific Work Plan (SSWP) submitted on your behalf by Environmental Laboratories Inc. The Tier I Report received on September 2013 indicated that petroleum Chemicals of Concern (CoC) are present in the soil and groundwater at concentrations that exceed Risk-Based Screening Levels (RBSLs). The Tier II Assessment should be conducted in accordance with the UST Quality Assurance Program Plan (QAPP) Revision 3.0, Environmental Laboratories approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Assessment activities at the site should begin immediately upon receipt of this letter. Cost agreement number 52649 has been approved for the amount shown on the enclosed cost agreement form for monitoring well installation and groundwater sampling activities to define the horizontal and vertical extent of dissolved CoC. The necessary monitoring well approval is enclosed. Please be aware that the May 15, 2014 State Underground Petroleum Environmental Response Bank (SUPERB) Allowable Costs sheet states that "If the vertical and horizontal extent of chemicals of concern is not fully defined by the tier report, the Agency may not approve additional future mobilizations for additional screening or well installation." Any screening point that is converted to a permanent monitoring well will be reimbursed at the approved well installation rate. **Please contact the Agency prior to well installation for concurrence regarding the final well locations**. Shallow wells should have a 10-foot screen that brackets the water table. **The SUPERB Account cannot reimburse costs for any shallow well with a screen that does not properly bracket the water table.**

A groundwater sample should be collected from all monitoring wells and analyzed for BTEX, naphthalene, 8 oxygenates, 1,2-DCA, ethanol, lead, and EDB. All monitoring wells must be purged prior to sample collection.

The Tier II Assessment Report, contractor checklist, and invoice are due within 90 days from the date of this letter. The report (a signed .pdf copy on CD is preferred) submitted at the completion of these activities should include information outlined in the UST QAPP.

Cost agreement number 52649 has been approved for the amount shown on the enclosed cost agreement. Please note the following changes to the submitted cost agreement per a September 7, 2016 telephone conversation (Knight/Slack):

- Line 6AA: Up to 315 additional feet has been added for field screening in the source area to determine the area of residual saturation and to screen the transition zone as needed away from the source area.
- Line 8A1: Up to 315 additional feet of well abandonment has been added.
- Line 9HH: Footage for up to 3 four inch recovery wells has been added to be installed in the source area.
- Lines 10A.1, 11.A2, 11D1, and 11E1: The cost of sampling and analyses of up to 3 additional wells for the parameters noted above has been added.
- Line 16A1: The cost of a subsequent survey has been added.
- Line 17AA and C1. Additional wastewater and soil tonnage has been added due to the recovery wells.

According to Division records, the release at the facility was reported to the Agency on October 23, 2012. In accordance with Section 44-2-40(D) of the State Underground Petroleum Environmental Response Bank (SUPERB) Account, you are responsible for the first $25,000 of site rehabilitation costs. Please be sure to provide proof of costs that will be applied to the deductible with the invoice. Acceptable proof of payment of deductible costs include a copy of the cancelled check (front and back) that made payment to your contractor or a signed notarized statement by your site rehabilitation contractor for the amount that was paid directly to your contractor. Environmental Laboratories Inc., can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for preapproved costs that exceed the $25,000 deductible. An interim well drilling invoice may not be submitted for this scope of work as the deductible has not been met. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available. The Division, because of unnecessary dilution, cannot make decisions if the reporting limit of individual petroleum CoC exceeds RBSLs. The Division encourages the use of 'J' values as necessary so the appropriate action can be determined for a release. Note that the Division may deny payment for any non-detect analysis where the reporting limit exceeds the RBSL.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

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

Please note that in accordance with R.61-92, Subpart H, Section 280.114, you are required to notify the Division by certified mail within ten (10) days of commencing a voluntary or involuntary proceeding in bankruptcy. State law also requires that an owner/operator or guarantor that files for bankruptcy protection must immediately submit appropriate forms documenting that entity's ability to demonstrate financial responsibility.

On all correspondence concerning this site, please reference UST Permit #12430. If you have any questions concerning this project, please contact me at (803) 898-0601 or by email at knightbt@dhec.sc.gov.

Sincerely,

Tom Knight, P.G., Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Monitoring Well Approval
Approved Cost Agreement

cc: Environmental Laboratories, Inc., 2121 Roe Ford Rd., Greenville, SC 29617 (w/ enc.)
Petra-Tech Environmental Llc, 2435 E. North Street, Ste 1108-202, Greenville, SC 29615 (w/ enc.)
Technical File (w/ enc.)

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Monitoring Well Approval Form

Approval is hereby granted to: Environmental Laboratories Inc.
(on behalf of): Shree Gajvakra LLC
Facility: Westside Quick Stop, 821 West Parker Rd, Greenville, SC
UST Permit Number: 12430
County: Greenville

This approval is for the installation of 12 shallow temporary wells, five (5) intermediate temporary wells, eight (8) shallow monitoring wells, five (5) type III bedrock telescoping wells, three (3) four inch recovery wells and additional wells as needed and pre-approved by the Department to complete the scope of the Tier II investigation. The monitoring wells are to be installed in the approved locations. The monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by the Agency shall be completed and submitted to the Agency within 30 days after well completion or abandonment unless another schedule has been approved by the Agency. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to the Agency within 30 days of receipt of laboratory results unless another schedule has been approved by the Agency as required by R.61-71.H.1.d.
5. If any of the information provided to the Agency changes, notification to Tom Knight (tel: (803) 898-0601 or e-mail: knightbt@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Agency approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated April 26, 2002. A copy of this approval should be on the site during well installation.

Date of Issuance: **September 8, 2016** **Approval #: UMW-26386**

Tom Knight

Tom Knight, P.G., Hydrogeologist
Assessment Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Reply | Delete Junk | ••• ×

Re: Westside Quick Stop - UST Permit #12430 - Additional Cost Agreement Addendum Request

Knight, B. Tom
Today, 12:04 PM
Trever Slack, P.G <tslack@petratechenv.com>

Reply |

Sent Items

Looks like the PAH data is not needed based on a quick look at previous reports. Looks like you had proposed it initially. I do not think it is needed at this point.

Tom

Tom Knight, P.G.
Hydrogeologist
UST Assessment Section
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0601
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter



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From: Trever Slack, P.G <tslack@petratechenv.com>
Sent: Monday, June 5, 2017 7:10 AM
To: Knight, B. Tom
Cc: tslack@petratechenv.com
Subject: Westside Quick Stop - UST Permit #12430 - Additional Cost Agreement Addendum Request

Good morning Tom,

we are finishing up this assessment and the report and invoice should arrive this week.

Below are two additional requested items for a Cost Agreement #52649 Addendum request that did not get included in the original request.

9. Well Installation
   CC. Telescoping +85 @ $50.00/foot

25. Well Repair
   A1. Additional Copies of Report +2 @ $50.00

Also, while reviewing the report I realized that we did not analyze the monitoring well groundwater samples for PAHs. Please let me know if you think you still need this data and I will send someone out and submit an addendum to the Tier

Reply | Delete Junk | ••• ×

Thank you,
Trever

Trever Z. Slack, P.G.
Principal Hydrogeologist

petra-tech
ENVIRONMENTAL, LLC

2435 East North Street, Suite 1108-202
Greenville, South Carolina 29615

tslack@petratechenv.com
www.petratechenv.com
(864) 436-6322 (phone)
(888) 838-9034 (fax)

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> -------- Original Message --------
> Subject: Re: Westside Quick Stop - UST Permit #12430 - Revised Proposed Monitoring Well Locations Map & Cost Agreement Addendum Request
> From: "Knight, B. Tom" <knightbt@dhec.sc.gov>
> Date: Mon, February 06, 2017 3:37 pm
> To: "Trever Slack, P.G" <tslack@petratechenv.com>
>
> Trever,
>
> The proposed work is acceptable. I have put in the cost agreement addendum for approval.
>
> Tom
>
> **Tom Knight, P.G.**
> Hydrogeologist
> UST Assessment Section
> **S.C. Dept. of Health & Environmental Control**
> Office: (803) 898-0601
> Fax: (803) 898-0673
> Connect: www.scdhec.gov Facebook Twitter

Reply | Delete Junk | ...

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From: Trever Slack, P.G <tslack@petratechenv.com>
Sent: Sunday, February 5, 2017 9:41 AM
To: Knight, B. Tom
Cc: tslack@petratechenv.com; Martin@elabsinc.net
Subject: RE: Westside Quick Stop - UST Permit #12430 - Revised Proposed Monitoring Well Locations Map & Cost Agreement Addendum Request

Good morning Tom,

please find attached a proposed well location site map for the Westside Quick Stop - UST 12430 site in Greenville. The proposed well locations have been modified based on our conversation/emails last week. Please let me know if there is anything I missed.

Below are requested items for the Cost Agreement #52649 Addendum request.

04. Mob/Demob (A personnel/direct push rig will be mobilized to the site to perform a continuous soil core to the top of rock at the proposed PRW02 location. Free-product will also be gauged in existing monitoring well MW02 at this time)
A1. Equipment +1 @ $1020.00/each
B1. Personnel +1 @ $423.00/each

9. Well Installation
B1. Water Table +450 @ $38.00/foot
CC. Telescoping +385 @ $50.00/foot (For intermediate wells near the source areas)
HH. Recovery Well +15 @ $45.00/foot
* - We will not need the previously approved Rock Drilling Footage - 275 feet @ $58.00/foot

10. Sample Collection
A1. Groundwater Purge +11 @ $60.00/each
E1. Gauge Well Only +1 @ $7.00/each
H1. Field Blank +1 @ $24.60/each

11. Analyses
A2. BTEX..... +13 @ $122.00/each
D1. PAHs +12 @ $60.60/each
E1. Lead +12 @ $16.00/each
F1. EDB +15 @ $45.20/each

17. Disposal
AA. Wastewater +230 @ $0.56/gallons
C1. Soil + 5 tons @ $60.00/ton
Thank you,
Trever

Trever Z. Slack, P.G.
Principal Hydrogeologist

Reply | Delete Junk | •••

PETRA-TECH
ENVIRONMENTAL, LLC

2435 East North Street, Suite 1108-202
Greenville, South Carolina 29615

tslack@petratechenv.com
www.petratechenv.com
(864) 436-6322 (phone)
(888) 838-9034 (fax)

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-------- Original Message --------
Subject: Re: Westside Quick Stop - UST Permit #12430 - Screening Update and Proposed Monitoring Well Locations
From: "Knight, B. Tom" <knightbt@dhec.sc.gov>
Date: Wed, February 01, 2017 11:52 am
To: "Trever Slack, P.G" <tslack@petratechenv.com>

Trevor...per our telephone conversation,

First I agree with and approve the proposed locations albeit I am recommending additional locations in addition to the proposal. Please submit a cost addendum agreement as the proposed work appears to exceed the cost agreement.

Please consider the addition of a third recovery well in the vicinity of MW-2. Gauging of well MW-2 maybe helpful in this consideration (concentrations exceeded effective solubility limits last time sampled but with the water table drop ??).

Transition zone monitoring wells are strongly recommended with shallow wells PMW-14, 15, 12 and 22.

Please replace well X with a well that brackets the water table.

It is recommended that soil be screened to total depth drilled in well PRW-02 to determine extent of residual saturation at this location.

An additional shallow monitoring well is recommended between PWR-1 and PRW-2 for long term monitoring near the south corner end of tank pit?). Access pending, a shallow monitoring well on the southwest corner of the building may also be helpful for long term monitoring of product and evaluating presence/thickness residual saturation.

Reply | Delete Junk | ...

Groundwater flow direction pending, a well pair between MW-4 and PMW-22 maybe helpful.

Let me know your thoughts,

Tom

Tom Knight, P.G.
Hydrogeologist
UST Assessment Section
S.C. Dept. of Health & Environmental Control
Office: (803) 898-0601
Fax: (803) 898-0673
Connect: www.scdhec.gov Facebook Twitter

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From: Trever Slack, P.G <tslack@petratechenv.com>
Sent: Tuesday, January 31, 2017 9:40 PM
To: Knight, B. Tom
Cc: tslack@petratechenv.com; Martin@elabsinc.net
Subject: Westside Quick Stop - UST Permit #12430 - Screening Update and Proposed Monitoring Well Locations

Good evening Tom,

attached are the following documents associated with the Westside Quick Stop (UST Permit #12430) for your review

- Groundwater screening data table
- Soil boring logs for SB01 through SB03
- Site map with groundwater/soil screening borings and proposed permanent monitoring well locations for your review/approval
- topographic site map

A few items/observations that may be helpful

1. One inch temporary wells were installed in each groundwater boring so that the well screens bracketed the water table and were allowed to equilibrate for approximately 24 hours prior to gauging for the presence of free-phase petroleum product and collecting the groundwater sample.
2. 0.71-feet of free-phase petroleum product was gauged in groundwater screening boring GW01 (paired with soil screening boring SB01). Free-product was not detected in any of the other borings. Monitoring well MW-X which previously contained 0.99-feet of free-phase petroleum product during the May 2016 gauging event is currently dry.
3. Each of the three soil screening borings (SB01, SB02, SB03) were drilled to refusal.
4. It should be noted that there is an approximate 5-foot elevation difference between the site itself and the right-of-way directly to the south/southwest of the site. This is not apparent on the site map.
5. The release at this site from the current UST basin is relatively recent, and based on the limited horizontal extent of the dissolved phase plume and lack of free-phase petroleum

and relatively young age of the plume.

6. Looking at the topographic map, the site is positioned on a topographic ridge, favoring the southern portion of the topographic high point. This would suggest that the southeast flow direction from the previous assessment is plausible/likely. Additionally, the soil borings performed on the southern portion of the site during the current assessment were able to be advanced significantly deeper before encountering refusal than deep borings performed to the north/northwest during the previous assessment.

Recommendations

1. shallow monitoring wells PMW17, PMW18, PMW19, and PMW23 are proposed as perimeter wells to provide plume extent definition
2. shallow monitoring wells PMW20, PMW16, PMW15, PMW14, and PMW21 are proposed to provide data for the interior of the plume. The areas proximal to these wells currently have limited to moderate CoC concentrations, but will be important as the plume migrates with time.
3. recovery wells PRW01 and PRW02 are proposed to the north of the UST basin/MW-X to provide AFVR extraction points. Installing recovery wells to the south of the UST basin may increase free-product recovery volumes, but may also unfavorably increase plume migration.
4. shallow monitoring wells PMW12 and PMW22 are proposed along the northwest boundary of the site to provide additional plume definition in this area. There is a large distance between monitoring wells MW-1/MW-2 and the MW-7/MW-8 located on the opposite side of the highway.
5. Intermediate monitoring wells PMW06I, PMW16I, PMW-17I, PMW19I, PMW04I are proposed for installation in the partially weathered rock on top of bedrock. I think we should complete the current assessment with the intermediate wells above the bedrock first, then decide if it is prudent to advance deeper borings into bedrock based on these results.

Thank you,
Trever

Trever Z. Slack, P.G.
Principal Hydrogeologist

petra-tech
ENVIRONMENTAL, LLC

2435 East North Street, Suite 1108-202
Greenville, South Carolina 29615

tslack@petratechenv.com
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JUN 2 3 2017

SHREE GAJVAKRA LLC
ATTN: ANKUR PATEL
205 FAIRWAY DRIVE
LAURENS SOUTH CAROLINA 29360-7700

Re: **Additional Assessment Directive to Define the Plume**
Westside Quick Stop, 821 West Parker Road, Greenville, SC
UST Permit # 12430, CA#52649, UMW#26386
Release #2 Reported October 23, 2012
Tier II Assessment Report Received June 6, 2017.
Greenville County

Dear Mr. Patel:

The UST Division has reviewed the referenced Tier II Report completed by Petra-Tech Environmental LLC on behalf of Environmental Laboratories Inc. and determined the plume is not defined. The levels of Benzene in down gradient monitoring well MW-23 exceed Risk-Based Screening Levels (RBSLs) for the referenced release as well as in well pair MW-12. The hydraulic head is slightly downward in the MW-12 well pair. It is recommended that shallow monitoring wells be installed between wells MW-7 and MW-8, downgradient of MW-23 and a transition zone well be installed in the vicinity of MW-23. Please sample only the new wells but gauge all monitoring well to develop post AFVR potentiometric maps. **A revised Tier II Report that defines the horizontal extent of the release is due on or before 60 days from the date of this letter.**

Cost agreement number 52649 and the monitoring well approval may be modified as necessary to define the release. Please have your site rehabilitation contractor contact the project manager so an addendum may be prepared as necessary. *SUPERB Allowable Costs* dated August 16, 2016 states, "If the vertical and horizontal extent of CoC is not fully defined by the tier report, the Agency may not approve additional future mobilizations for additional screening or well installation." Due to the difficulty of field screening at this site, additional mobilizations will be approved. **Costs will be audited for both scopes of work and reasonable technically justified costs for only necessary and correctly completed tasks will be reimbursed.** If the final invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this final invoice for the additional assessment will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that you and/or your contractor are responsible for obtaining all off-site access agreements and/or encroachment permits necessary for this scope of work.

On all correspondence concerning this site, please reference UST Permit # 12430. If there are any questions concerning this project, you may contact me at (803) 898-0601 or by email at knightbt@dhec.sc.gov.

Sincerely,

Tom Knight, P.G., Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

cc: Environmental Laboratories, Inc., 2121 Roe Ford Rd., Greenville, SC 29617
Petra-Tech Environmental LLC, 2435 E. North Street, Ste 1108-202, Greenville, SC 29615
Technical File

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 10-31-2017

Permit Number 12430

Project Manager Tom Knight

Name of Contractor Petra-Tech

UST Certification Number Additional Assessment Report

Docket Number 31Tech

Scanned _____

ADDITIONAL ASSESSMENT REPORT

Westside Quick Stop
SCDHEC UST Permit #12430
Cost Agreement #52649
821 West Parker Road
Greenville, South Carolina
Greenville County

PTE Job No. J17-232-B

October 15, 2017

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

Petra-Tech Environmental
2435 East North Street
Suite 1108-202
Greenville, SC 29615

www.petratechenv.com

October 15, 2017

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

Attention: Mr. Tom Knight, P.G.

Subject: **Tier II Assessment Report**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
Cost Agreement #52649
PTE Job No. J17-232-B

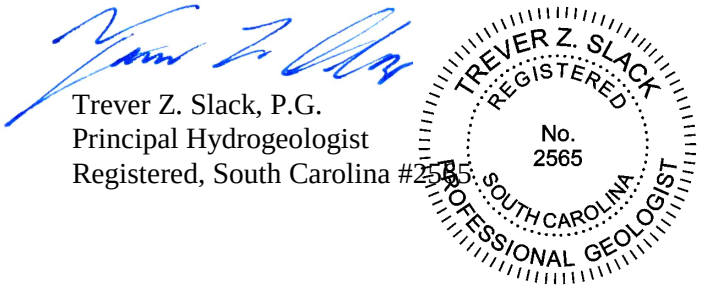
Dear Mr. Knight,

On behalf of Shree Gajvakra LLC and Environmental Laboratories, Inc., Petra-Tech Environmental, LLC submits herein the completed Additional Assessment Report for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive letter dated June 23, 2017.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565

1.0 INTRODUCTION

The subject property is located at 821 West Parker Road in Greenville, Greenville County, South Carolina (**Figure 1**) and currently operates as a retail petroleum fueling station and convenience store. The site is bordered primarily by residential properties with the exception of a commercial property to the northeast and northwest.

According to the South Carolina Department of Health and Environmental Control Online Underground Storage Tank Registry database, three underground storage tanks (one 1,000-gallon kerosene and two 6,000-gallon regular gasoline) are currently in use at the site. Additionally, a 4,000-gallon super/premium gasoline underground storage tank is located at the site and is currently classified as extended-out-of-use. Two separate releases have been reported at the site. An Initial Groundwater Assessment, Tier I Assessment, and initial Tier II Assessment were completed in response to these releases.

As a result of the detection of free-phase petroleum product in groundwater monitoring well 12430-MW01 during a May 2016 groundwater gauging event conducted by the South Carolina Department of Health and Environmental Control, an additional Tier II Assessment and two 96-hour long-term AFVR/MMPE events were completed at the site in early 2017. The results of the AFVR/MMPE events were submitted to the South Carolina Department of Health and Environmental Control in a *Report of Long-Term AFVR/MMPE Events* dated May 8, 2017; and the results of the additional Tier II Assessment were submitted to the South Carolina Department of Health and Environmental Control in a *Tier II Assessment Report* dated May 29, 2017.

A directive for an additional assessment to provide further plume definition was issued by the South Carolina Department of Health and Environmental Control in June 2017. Installation and sampling of two additional shallow groundwater monitoring wells and one additional intermediate transition zone groundwater monitoring well, along with groundwater level measurements from all wells associated with the site were requested. The results of the additional assessment are contained herein.

2.0 ASSESSMENT INFORMATION

2.1 Summary of Monitoring Well Installation Activities

Three groundwater monitoring wells (12430-MW23I, 12430-MW27, and 12430-MW28) were installed from September 7, 2017 through October 1, 2017. Shallow groundwater monitoring wells were installed so that the well screens bracketed the water table, and the intermediate monitoring well was advanced to the top of rock (drill refusal). Monitoring well installations were performed by Mr. Robyn Barkley (SC Licensed Well Driller #0934-A) and Mr. Ryan McCormack (SC Licensed Well Driller #2174-D). Quality Assurance verification for monitoring well installation activities was provided by Ms. Kaye Jones.

2.2.1 Type II Wells

Shallow water table groundwater monitoring wells 12430-MW27 and 12430-MW28 were installed as Type II monitoring wells using an AMS 9630 PRO or AMS 9500 VTR drill utilizing hollow stem auger (3.5-inch inside diameter) drilling techniques. The monitoring wells consist of 2-inch ID, schedule 40 PVC

casing with flush-threaded joints. The bottom 10-foot section of each shallow water table monitoring well is a manufactured well screen with 0.010-inch wide machined slots. Standard sand filter pack, bentonite seal, and grout were installed to the ground surface.

Total well depths for Type II wells are:

Shallow Water Table Groundwater Monitoring Wells

12430-MW27	34.70 feet below ground surface
12430-MW28	35.91 feet below ground surface

Well construction diagrams and 1903 Water Well Records are included in **Appendix A**. Well construction data is provided in **Table 1**.

2.1.2 Type III Wells

Monitoring well 12430-MW23I was installed as a Type III, vertical extent (telescoping) monitoring well. The well was installed using an AMS 9630 PRO drill utilizing mud rotary drilling techniques. The telescoping well was constructed with a 6-inch ID schedule 40 PVC outer casing installed to an approximate depth of 50-feet below ground surface. The casing was grouted to the ground surface with a bentonite-cement grout and allowed to cure for at least 24 hours. After curing, a 5.5-inch outside diameter roller cone bit was utilized to advance the borehole through the outer casing to the termination depth. A 2-inch ID schedule 40 PVC casing with flush-threaded joints was installed in the borehole, and the bottom 5-foot section of the well is a manufactured well screen with 0.010-inch machined slots. Standard filter sand pack, bentonite seal, and grout were installed to the ground surface.

Total well depth for the Type III well is:

Intermediate Groundwater Monitoring Well

12430-MW23I	61.69 feet below ground surface

A monitoring well construction diagram and 1903 Water Well Record are included in **Appendix A**. Monitoring well construction data is provided in **Table 1**.

2.1.3 General

At assigned intervals, drill cuttings were collected for soil classification and representative portions of the test samples were visually examined and classified by a geologist. Soil samples were screened at 5-foot intervals using a photo-ionization detector.

To help prevent cross-contamination, downhole drilling equipment was steam cleaned between borings. Approximately 2.75 tons of petroleum impacted drill cuttings generated during the installation of the monitoring wells were transported off-site for disposal. Waste transportation and disposal records are included in **Appendix B**.

Monitoring well installations were performed by a South Carolina licensed driller and were developed through a combination of surging and overpumping. The monitoring well locations were surveyed by a

licensed surveyor (George B. Souther RLS, SC #21232) to establish horizontal control and vertical elevations of the top of PVC casing and ground surface.

2.2 Groundwater Sampling

Newly installed groundwater monitoring wells were sampled on October 3, 2017 by Mr. Jimmy Slagh of Petra-Tech Environmental, LLC. Quality Assurance verification was provided by Ms. Kaye Jones.

Groundwater monitoring wells were developed by purging until it was determined that groundwater flow through the well screen was not inhibited by silt or fine sand and field parameters had stabilized. Approximately 100 gallons of decontamination fluids, drilling fluids, and purge-water generated during the monitoring well development and sampling were transported off-site for disposal. Waste transportation and disposal records are attached in **Appendix B**. Monitoring well purging and sampling logs are included in **Appendix C**.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were submitted to Pace Analytical Services for analysis of BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011, and total lead by EPA Method 6010B . One duplicate sample per twenty wells sampled and one field blank for each day in the field was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA M\ethod 8260B, EDB by EPA Method 8011, and total lead by EPA Method 6010B. Additionally, one trip blank for each sample cooler was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B.

2.3 Assessment Results

2.3.1 Groundwater Occurrence

Site-wide stabilized groundwater elevations were recorded on October 3, 2017. A tabulation of the groundwater level data is provided in **Table 1**. A water table elevation contour map showing the occurrence and direction of groundwater flow in the shallow and intermediate screened interval is presented as **Figures 2a and 2b,** respectively. Groundwater flow from the source area is generally to the southeast.

2.3.2 Groundwater Monitoring Well Sampling Results

Of the three groundwater monitoring wells sampled for laboratory analysis during the Additional Assessment, monitoring well 12430-MW23I detected petroleum compounds above South Carolina established Risk-Based Screening Levels. Benzene was detected in groundwater monitoring well 12430-MW23I at concentrations of 115 µg/l and 105 µg/l.

The results of the additional monitoring well laboratory analyses are summarized in **Table 2** and are shown on **Figures 3a through 3d** along with analytical data from the April 2017 sampling event. Laboratory data sheets are provided in **Appendix D**.

3.0 CONCLUSIONS

The dissolved phase groundwater contaminant plume is generally defined at the site in the shallow, water table aquifer. However, dissolved phase petroleum contaminants of concern have migrated vertically to impact the intermediate screened interval installed in the partially weathered rock zone in groundwater monitoring wells 12430-MW12I and 12430-MW23I.

Free-phase petroleum product remains at the site in groundwater monitoring wells 12430-MW01 (5.03 feet), 12430-MW24 (6.27 feet), 12430-RW01 (6.09 feet), 12430-RW02 (4.65-feet), 12430-MWX (sheen), and 12430-MWXR (sheen). Additional 96-hour Aggressive Fluid Vapor Recovery (AFVR) events should be implemented as soon as possible at the site to continue free-phase petroleum product removal.

Groundwater sampling events should be implemented on a semi-annual schedule to monitor migration of the groundwater contaminant plume. It should be noted that an out-of-use suspected private water supply well was identified during sampling activities approximately 50 feet to the southwest of the UST system. The well was previously covered by debris and was discovered by the new property owner during property cleanup activities. The well is currently out of use, and may be filled with construction and demolition debris. Photographs of the well are included as **Appendix E**.

TABLES

TABLE 1
Monitoring Well and Groundwater Surface Elevation Data
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW01	1005.56	1005.32	08/13/2013	-	17.97	-	987.35	30.00	15.00 - 30.00	990.56 - 975.56
			03/31/2015	-	22.63	-	982.69			
			04/10/2017	25.21	29.37	4.16	978.86			
			04/24/2017	24.83	29.29	4.46	979.15			
			10/03/2017	24.28	29.31	5.03	979.53			
12430-MW02	1006.50	1006.20	08/13/2013	-	18.85	-	987.35	30.00	15.00 - 30.00	991.50 - 976.50
			03/31/2015	-	21.69	-	984.51			
			04/10/2017	-	27.44	-	978.76			
			10/03/2017	-	26.53	-	979.67			
12430-MW03	1008.72	1008.49	08/13/2013	-	21.00	-	987.49	30.00	15.00 - 30.00	993.72 - 978.72
			03/31/2015	-	23.81	-	984.68			
			04/10/2017	DRY			NA			
			10/03/2017	DRY			NA			
12430-MW04	1008.45	1008.27	03/31/2015	-	23.47	-	984.80	30.49	20.29 - 30.29	988.16 - 978.16
			04/10/2017	DRY			NA			
			10/03/2017	-	28.19	-	980.08			
12430-MW04I	1008.35	1008.12	04/10/2017	-	29.36	-	978.76	53.17	47.97 - 52.97	960.38 - 955.38
			10/03/2017	-	28.35	-	979.77			
12430-MW05	998.24	997.73	03/31/2015	-	13.01	-	984.72	20.80	10.60 - 20.60	987.64 - 977.64
			04/10/2017	-	18.61	-	979.12			
			10/03/2017	-	18.26	-	979.47			
12430-MW06	998.58	998.27	03/31/2015	-	13.32	-	984.95	21.47	11.27 - 21.27	987.31 - 977.31
			04/10/2017	-	19.01	-	979.26			
			10/03/2017	-	18.25	-	980.02			
12430-MW07	1006.27	1005.88	03/31/2015	-	19.61	-	986.27	31.04	20.84 - 30.84	985.43 - 975.43
			04/10/2017	DRY			NA			
			10/03/2017	-	25.52	-	980.36			
12430-MW08	1007.86	1007.43	03/31/2015	-	22.71	-	984.72	31.10	20.90 - 30.90	986.96 - 976.96
			04/10/2017	-	28.58	-	978.85			
			10/03/2017	-	27.62	-	979.81			
12430-MW09	1009.07	1008.55	03/31/2015	-	23.20	-	985.35	30.04	19.84 - 29.84	989.23 - 979.23
			04/10/2017	DRY			NA			
			10/03/2017	-	27.96	-	980.59			
12430-MW10	1008.54	1008.22	03/31/2015	-	22.94	-	985.28	30.47	20.27 - 30.27	988.27 - 978.27
			04/10/2017	-	29.30	-	978.92			
			10/03/2017	-	26.98	-	981.24			
12430-MW11	1008.26	1007.84	03/31/2015	-	22.82	-	985.02	30.83	20.63 - 30.63	987.63 - 977.63
			04/10/2017	-	29.37	-	978.47			
			10/03/2017	-	27.16	-	980.68			
12430-MW12	1005.64	1005.35	04/10/2017	-	26.59	-	978.76	35.69	25.49 - 35.49	980.15 - 970.15
			10/03/2017	-	25.39	-	979.96			
12430-MW12I	1005.65	1005.37	04/10/2017	-	26.65	-	978.72	45.63	40.43 - 45.43	965.22 - 960.22
			10/03/2017	-	25.81	-	979.56			
12430-MW14	1000.38	1000.02	04/10/2017	-	21.25	-	978.77	25.57	15.37 - 25.37	985.01 - 975.01
			10/03/2017	-	20.46	-	979.56			
12430-MW14I	1000.31	1000.11	04/10/2017	-	21.41	-	978.70	67.92	62.72 - 67.72	937.59 - 932.59
			10/03/2017	-	20.64	-	979.47			
12430-MW15	1000.15	999.88	04/10/2017	-	21.18	-	978.70	26.83	16.63 - 26.63	983.52 - 973.52
			10/03/2017	-	20.52	-	979.36			
12430-MW15I	1000.06	999.88	04/10/2017	-	21.24	-	978.64	62.13	56.93 - 61.93	943.13 - 938.13
			10/03/2017	-	20.55	-	979.33			
12430-MW16	1001.01	1000.63	04/10/2017	-	22.10	-	978.53	27.71	17.51 - 27.51	983.50 - 973.50
			10/03/2017	-	21.38	-	979.25			
12430-MW16I	1001.10	1000.72	04/10/2017	-	22.11	-	978.61	65.49	60.29 - 65.29	940.81 - 935.81
			10/03/2017	-	21.41	-	979.31			
12430-MW17	1000.25	999.85	04/10/2017	-	21.36	-	978.49	28.82	18.62 - 28.62	981.63 - 971.63
			10/03/2017	-	20.76	-	979.09			
12430-MW17I	1000.44	1000.01	04/10/2017	-	21.46	-	978.55	60.41	55.21 - 60.21	945.23 - 940.23
			10/03/2017	-	20.82	-	979.19			
12430-MW18	1003.14	1002.78	04/10/2017	-	24.38	-	978.40	29.30	19.10 - 29.10	984.04 - 974.04
			10/03/2017	-	23.61	-	979.17			
12430-MW19	1008.61	1008.24	04/10/2017	-	29.68	-	978.56	39.69	29.49 - 39.49	979.12 - 969.12
			10/03/2017	-	28.83	-	979.41			
12430-MW19I	1008.55	1008.18	04/10/2017	-	29.57	-	978.61	70.68	65.48 - 70.48	943.07 - 938.07
			10/03/2017	-	28.82	-	979.36			
12430-MW20	1008.40	1008.01	04/10/2017	-	29.41	-	978.60	40.87	30.67 - 40.67	977.73 - 967.73
			10/03/2017	-	28.22	-	979.79			
12430-MW21	1007.16	1006.73	04/10/2017	-	28.06	-	978.67	35.14	24.94 - 34.94	982.22 - 972.22
			10/03/2017	-	27.19	-	979.54			
12430-MW22	1007.45	1007.12	04/10/2017	-	28.31	-	978.81	35.06	24.86 - 34.86	982.59 - 972.59
			10/03/2017	-	27.30	-	979.82			
12430-MW22I	1007.28	1007.03	04/10/2017	-	28.29	-	978.74	49.72	44.52 - 49.52	962.76 - 957.76
			10/03/2017	-	27.46	-	979.57			
12430-MW23	1008.66	1008.24	04/10/2017	-	29.61	-	978.63	39.87	29.67 - 39.67	978.99 - 968.99
			10/03/2017	-	28.71	-	979.53			
12430-MW23I	1008.66	1008.21	10/03/2017	-	28.73	-	979.48	61.69	56.49 - 61.49	952.17 - 947.17
12430-MW24	1006.83	1006.39	04/10/2017	26.56	31.04	4.48	978.49	35.25	25.05 - 35.05	981.78 - 971.78
			04/24/2017	25.87	30.62	4.75	979.10			
			10/03/2017	25.29	31.56	6.27	979.22			
12430-MW25	1007.57	1007.27	04/10/2017	-	28.72	-	978.55	38.20	28.00 - 38.00	979.57 - 969.57
			10/03/2017	-	27.82	-	979.45			
12430-MW26	1007.68	1007.33	04/10/2017	-	28.52	-	978.81	36.45	26.25 - 36.25	981.43 - 971.43
			10/03/2017	-	27.50	-	979.83			

12430-MW26I	1007.67	1007.27	04/10/2017	-	28.53	-	978.74	55.11	49.91 - 54.91	957.76 - 952.76
			10/03/2017	-	27.50	-	979.77			
12430-MW27	1007.24	1006.96	10/03/2017	-	27.26	-	979.70	34.70	24.50 - 34.50	982.74 - 972.74
12430-MW28	1007.08	1006.76	10/03/2017	-	26.82	-	979.94	35.91	25.71 - 35.71	981.37 - 971.37
12430-RW01	1007.18	1006.69	04/10/2017	27.34	29.98	2.64	978.56	40.69	20.49 - 40.49	986.69 - 966.69
			04/17/2017	26.99	30.19	3.20	978.74			
			10/03/2017	25.62	31.71	6.09	979.24			
12430-RW02	1006.53	1006.23	04/10/2017	26.58	30.63	4.05	978.44	38.08	17.88 - 37.88	988.65 - 968.65
			04/24/2017	25.58	28.63	3.05	979.74			
			10/03/2017	25.61	30.26	4.65	979.23			
12430-RW03	1006.17	1005.90	04/10/2017	-	27.19	-	978.71	40.00	19.80 - 39.80	986.37 - 966.37
			10/03/2017	-	26.29	-	979.61			
12430-MWX	1007.47	1007.20	04/10/2017	28.53	NA	+1.47	NA	30.27	20.07 - 30.07	987.40 - 977.40
			04/17/2017	28.30	NA	+1.70	NA			
			10/03/2017	-	27.69	Sheen	979.51			
12430-MWXR	1007.67	1007.31	04/10/2017	-	28.66	-	978.65	38.25	28.05 - 38.05	979.62 - 969.62
			04/17/2017	28.43	28.45	0.02	978.87			
			10/03/2017	-	27.83	Sheen	979.48			

NOTES:
Measurements are in feet
BGS - below ground surface
Elevations are NAVD 88

TABLE 2
Summary of Groundwater Analytical Results
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15
12430-MW01	08/13/2013	-	***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.90***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***27000***	<10
			27000	***54000***	***2700***	***13000***	***5200***	<500	***0.93***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***28000***	<10
	03/30/2015	-	***3000***	***6300***	***440***	***2500***	***800***	<20	<0.049	<7.4	<10	<75	<13	***68***	<960	<33	***180 J***	***1800***	<4.7
			3000	***6200***	***420***	***2500***	***820***	<20	<0.0049	<7.4	<10	<75	<13	***67***	<960	<33	***190 J***	***1900***	<4.7
	04/10/2017	4.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW02	08/13/2013	-	***1000***	***1000***	***200***	***570***	***23***	<20	<0.019	<20	<20	<400	<200	<100	<2000	<100	<400	***910***	<10
	03/30/2015	-	***23000***	***51000***	***3200***	***15000***	***520***	***620***	***0.36***	<74	<100	<750	<130	***1600***	<9600	<330	<1100	***20000***	<4.7
	04/11/2017	-	851	659	139	562	<8.5	<10.0	<0.021	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	**687**	22.0
12430-MW03	08/13/2013	-	<1	<1	<1	<1	<1	<1	<0.020	<1	<1	<20	<10	<5	<100	<5	<20	<20	<10
	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***9 J***
	04/10/2017	DRY																	
12430-MW04	03/30/2015	-	***41***	***31***	***6.7***	***63***	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	***4.4***	<19	<0.66	<2.3	***5.1 J***	***6.4 J***
	04/10/2017	DRY																	
12430-MW04I	04/11/2017	-	***3.8 J***	***1.9 J***	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW05	03/31/2015	-	***0.22 J***	***0.70 J***	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW06	03/31/2015	-	***0.18 J***	***0.73 J***	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***14***
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	**46.4**
12430-MW07	03/31/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	4.8 J
	04/10/2017	DRY																	
12430-MW08	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***26***	***14 J***	<4.7
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW09	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7
	04/10/2017	DRY																	
12430-MW10	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.0049	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***3.6 J***	<1.5	<4.7
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***286***
12430-MW11	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***6.7 J***
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	***2.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***77.5 J***	***68.4***
12430-MW12	04/15/2017	-	***2050***	***3930***	***422***	***1580***	<34.0	<40.0	<0.019	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3010***	<2.5
12430-MW12I	04/15/2017	-	***2700***	***6210***	***576***	***2740***	<68.0	<80.0	<0.020	<72.0	<144	<1280	<136	<68.0	<5240	<292	<2310	***3680 J***	<2.5
12430-MW14	04/11/2017	-	***746***	***748***	***80.5***	***476***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	***795 J***	<36.5	<288	***2050***	***3.1 J***
			764	***749***	***79.6***	***462***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	**2220**	***10.6***
12430-MW14I	04/11/2017	-	***33.4***	***16.0***	***2.6 J***	***15.0***	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***111***	<2.5
12430-MW15	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW15I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW16	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	2.8 J
12430-MW16I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW17	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW17I	04/10/2017		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5

12430-MW18	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW19	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW19I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW20	04/10/2017	-	***341***	***286***	***26.1***	***119***	<4.2	<5.0	<0.020	<4.5	<9.0	<80.2	<8.5	***39.3***	<328	<18.2	<144	***1010***	<2.5
12430-MW21	04/15/2017	-	***5520***	***1620***	***675***	***5700***	***1240***	***285***	***0.42***	<72.0	<144	<1280	<136	***585***	<5240	<292	<2310	***4390***	<2.5
12430-MW22	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW22I	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW23	04/10/2017	-	1400	<20.0	<20.0	<33.8	47.4 J	72.4	<0.020	<22.5	<45.0	<401	<42.5	***44.7 J***	<1640	<91.2	<721	***1030 J***	<2.5
12430-MW23I	10/03/2017	-	***115***	***4.9 J***	***3.1 J***	<5.0	***9.3***	***3.3 J***	<0.019	<1.8	<3.6	<32.1	<3.4	***16.3***	<131	<7.3	<57.7	***202***	<2.5
			105	***4.5 J***	***2.9 J***	<5.0	***8.4***	***3.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	***14.8***	<131	<7.3	<57.7	***199***	<2.5
12430-MW24	04/10/2017	4.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW25	04/15/2017	-	***11.6***	***2.0 J***	<1.6	<2.7	***3.7 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
			11.4	***2.5 J***	<1.6	<2.7	***3.5 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW26	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW26I	04/15/2017	-	***2.6 J***	***2.8 J***	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW27	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW28	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW0X	04/10/2017	>1.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW0XR	04/11/2017	-	***3580***	***9410***	***621***	***3390***	***516***	<200	<0.020	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	***18.2***
12430-RW01	04/10/2017	2.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW02	04/10/2017	4.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW03	04/15/2017	-	***7020***	***12200***	***1890***	***9200***	***298 J***	***275 J***	<0.020	<180	<360	<3210	<340	***251 J***	<13100	<730	<5770	<7680	<2.5
			6750	***11700***	***1890***	***9100***	***304 J***	***269 J***	<0.020	<180	<360	<3210	<340	***257 J***	<13100	<730	<5770	<7680	<2.5
Field Blank 1	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
Trip Blank 1	-	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5

NOTES:

RBSL - Risk Based Screening Level

Bold values indicate concentrations detected above the laboratory method detection limit.

Shaded values indicate concentrations exceeding RBSLs.

NE - Not Established

NT - Not Tested

FIGURES



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

● SITE

Ⓦ Private Water supply Well

N

Title	Site Location Map		
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County		
Date	10/15/2017	petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 1
Job No.	J17-232-B		

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

981.24
MW-10

MW-9
980.59

MW-8
979.81

MW-28
979.94

MW-7
980.36

979.82 MW-22
(979.57) MW-22i

(979.77) MW-26i
MW-26
979.83

MW-4
980.08
MW-4i
(979.77)

MW-11
980.68

979.96 MW-12
(979.56) MW-12i

979.67 MW-2
(979.61) RW-3
(979.23) RW-2

979.54 MW-21

(979.53) MW-1

MW-24
(979.22)

(979.24) RW-1

MW-3
DRY

979.79
MW-20

MW-23i
(979.48)

MW-23
979.53

MW-25
979.45

MW-27
979.70

979.56 MW-14
MW-14i
(979.47)

MW-X
979.51

MW-XR
979.48

MW-19i
(979.36)

MW-19
979.41

MW-15
979.36

MW-15i
(979.33)

MW-6
980.02

MW-16
979.25

MW-16i
(979.31)

MW-18
979.17

MW-17i
(979.19)

MW-5
979.47

MW-17
979.09

980.00
979.75
979.50
979.25

GRASS
VACUUM
ASPHALT
GRAVEL
ISLAND
TRANSMISSION LINE
CHAINLNK FENCE

Approximate location of suspected out-of-service private water supply well

Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.25-feet

541.28 Groundwater Elevation (October 3, 2017)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

N

Title	Groundwater Potentiometric Map – Shallow Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	10/15/2017
Job No.	J17-232-B

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2a

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

TRANSMISSION LINE

MW-9 (980.59)

MW-8 (979.81)

MW-28 (979.94)

MW-7 (980.36)

(979.82) MW-22

979.57 MW-22i

MW-26i 979.77

MW-26 (979.83)

MW-4 (980.08)

MW-4i 979.77

979.75

MW-11 (980.68)

(979.96) MW-12

979.56 MW-12i

(979.67) MW-2

(979.61) RW-3

(979.23) RW-2

(979.54) MW-21

(979.53) MW-1

(979.24) RW-1

MW-24 (979.22)

(979.79) MW-20

MW-3 DRY

MW-23i 979.48

MW-23 (979.53)

979.50

MW-27 (979.70)

(979.56) MW-14

979.47 MW-14i

Approximate location of suspected out-of-service private water supply well

MW-25 (979.45)

MW-X (979.51)

MW-XR (979.48)

MW-19i 979.36

MW-19 (979.41)

MW-6 (980.02)

979.75

MW-15 (979.36)

MW-15i 979.33

979.50

MW-16 (979.25)

MW-16i 979.31

MW-18 (979.17)

MW-17i 979.19

MW-5 (979.47)

MW-17 (979.09)

GRASS

VACUUM

ASPHALT

GRAVEL

ISLAND

CHAINLNK FENCE

Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.25-feet

541.28 Groundwater Elevation (October 3, 2017)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

N

Title	Groundwater Potentiometric Map – Intermediate Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	10/15/2017
Job No.	J17-232-B

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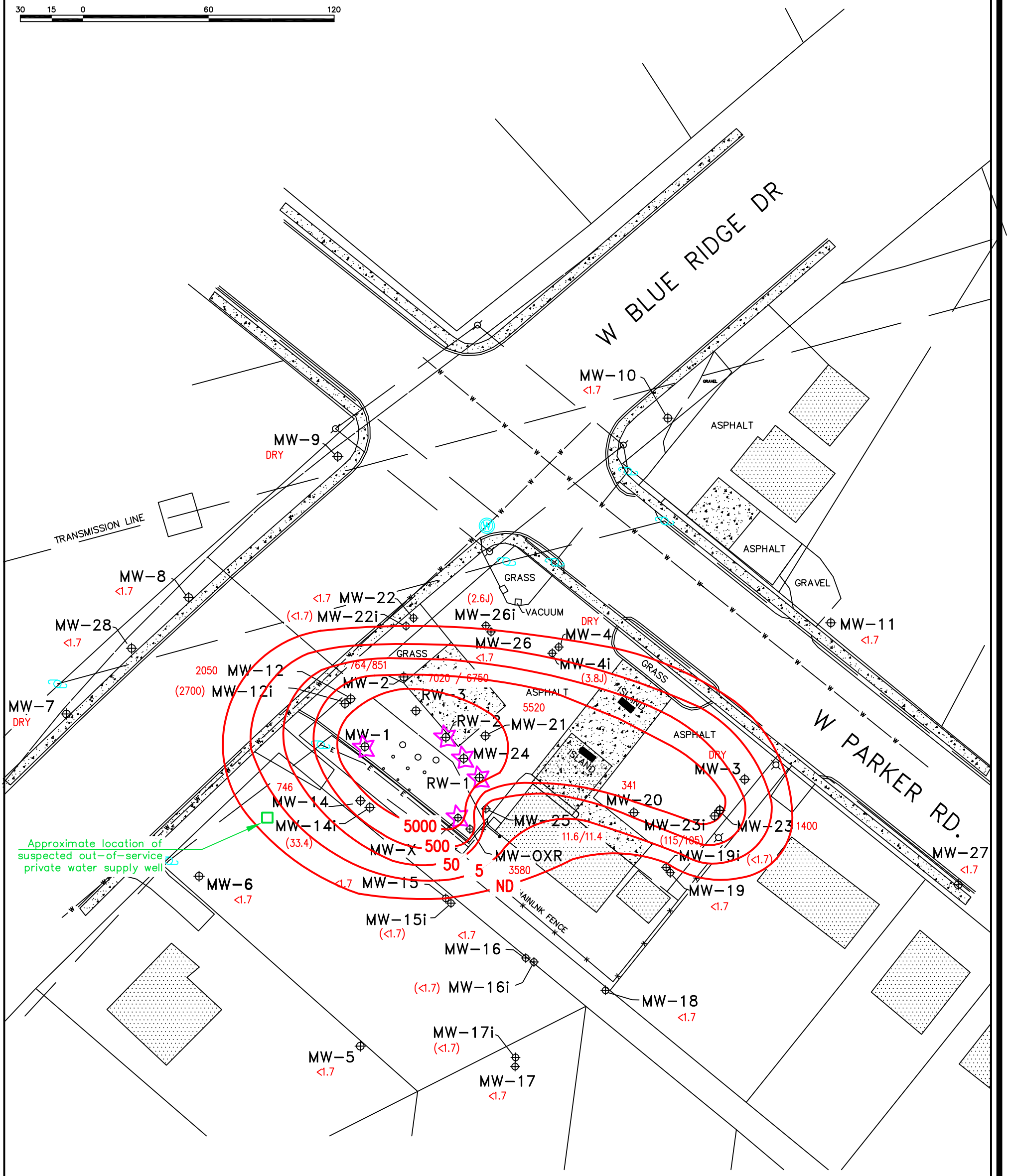
Figure No. 2b

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120



Note:

1) Groundwater samples from newly installed groundwater monitoring wells 12430-MW23I, 12430-MW27, and 12430-MW28 were collected on October 3, 2017.
2) Groundwater samples from previously installed groundwater monitoring wells were collected between April 10, 2017 and April 15, 2017.

Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Benzene Concentration in Micrograms Per Liter

(2.5J) — Benzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval

Benzene Isoconcentration Line

N

Title	Benzene Isoconcentration Map – April & October 2017
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	10/15/2017
Job No.	J17-232-B

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3a

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

MW-10 <1.6

MW-9 DRY

MW-8 <1.6

MW-28 <1.6

MW-7 DRY

MW-22 <1.6

MW-22i (<1.6)

MW-26i (2.8J)

MW-26 <1.6

MW-4 DRY

MW-4i (1.9J)

MW-11 <1.6

MW-12 3930

MW-12i (6210)

MW-2 749/659

RW-3 12200 / 11700

RW-2 1620

MW-21

MW-1

MW-24

RW-1

MW-3 DRY

MW-20 286

MW-25 2.0J/2.5J

MW-23i (4.9/4.5)

MW-23 <20.0

MW-19i (<1.6)

MW-19 <1.6

MW-27 <1.6

MW-14 748

MW-14i (16.0)

MW-X

MW-OXR 9410

MW-6 <1.6

MW-15 <1.6

MW-15i (<1.6)

MW-16 <1.6

MW-16i (<1.6)

MW-18 <1.6

MW-17i (<1.6)

MW-17 <1.6

MW-5 <1.6

ND 5 50 500 5000

Approximate location of suspected out-of-service private water supply well

TRANSMISSION LINE

GRASS

VACUUM

ASPHALT

GRAVEL

ISLAND

CHAINLNK FENCE

Note:

1) Groundwater samples from newly installed groundwater monitoring wells 12430-MW23I, 12430-MW27, and 12430-MW28 were collected on October 3, 2017.
2) Groundwater samples from previously installed groundwater monitoring wells were collected between April 10, 2017 and April 15, 2017.

Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J Toluene Concentration in Micrograms Per Liter

(2.5J) Toluene Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval

Toluene Isoconcentration Line

N

Title	Toluene Isoconcentration Map – April & October 2017
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	10/15/2017
Job No.	J17-232-B

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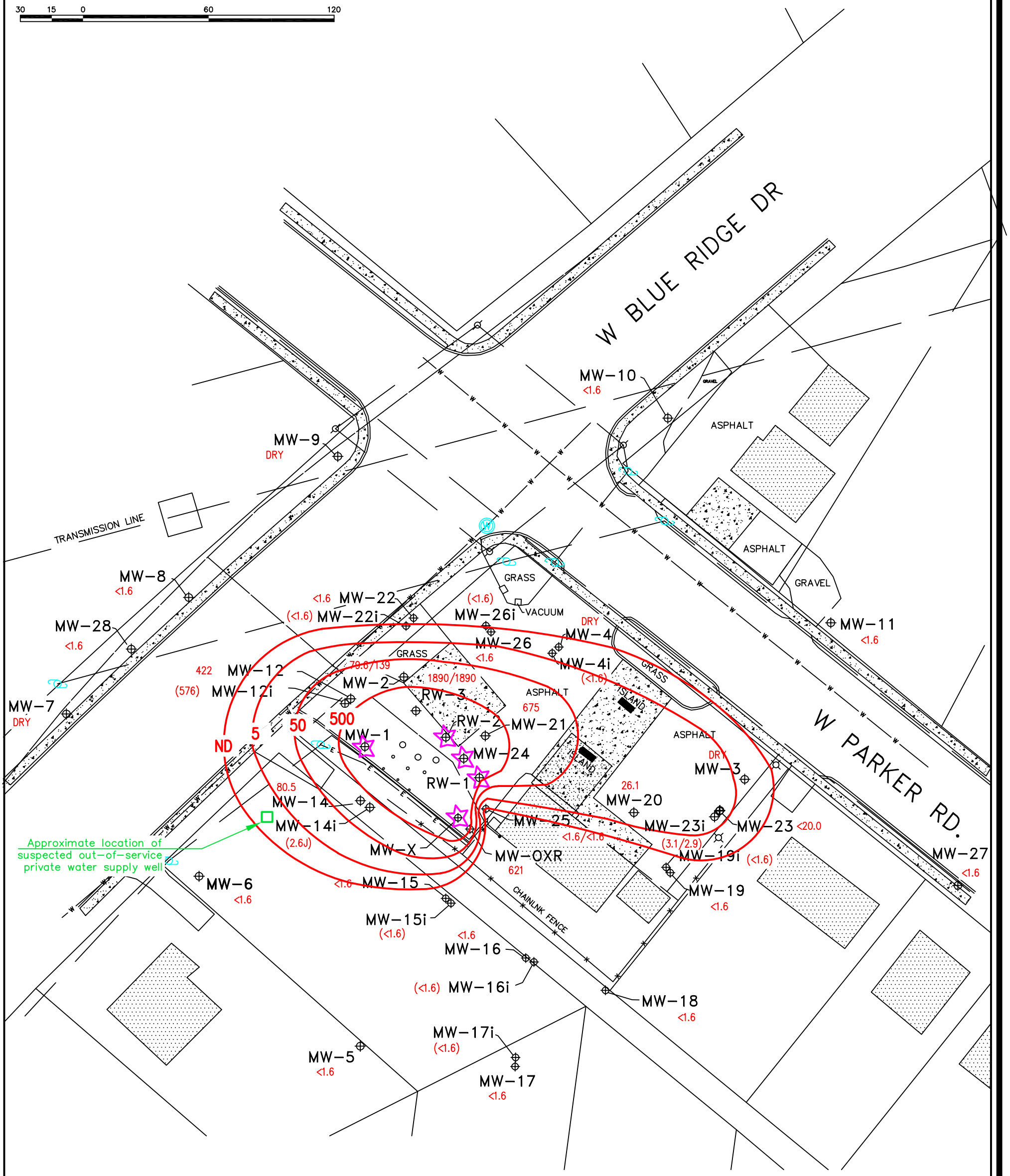
Figure No. 3b

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120



Note:

1) Groundwater samples from newly installed groundwater monitoring wells 12430-MW23I, 12430-MW27, and 12430-MW28 were collected on October 3, 2017.
2) Groundwater samples from previously installed groundwater monitoring wells were collected between April 10, 2017 and April 15, 2017.

Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Ethylbenzene Concentration in Micrograms Per Liter

(2.5J) — Ethylbenzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval

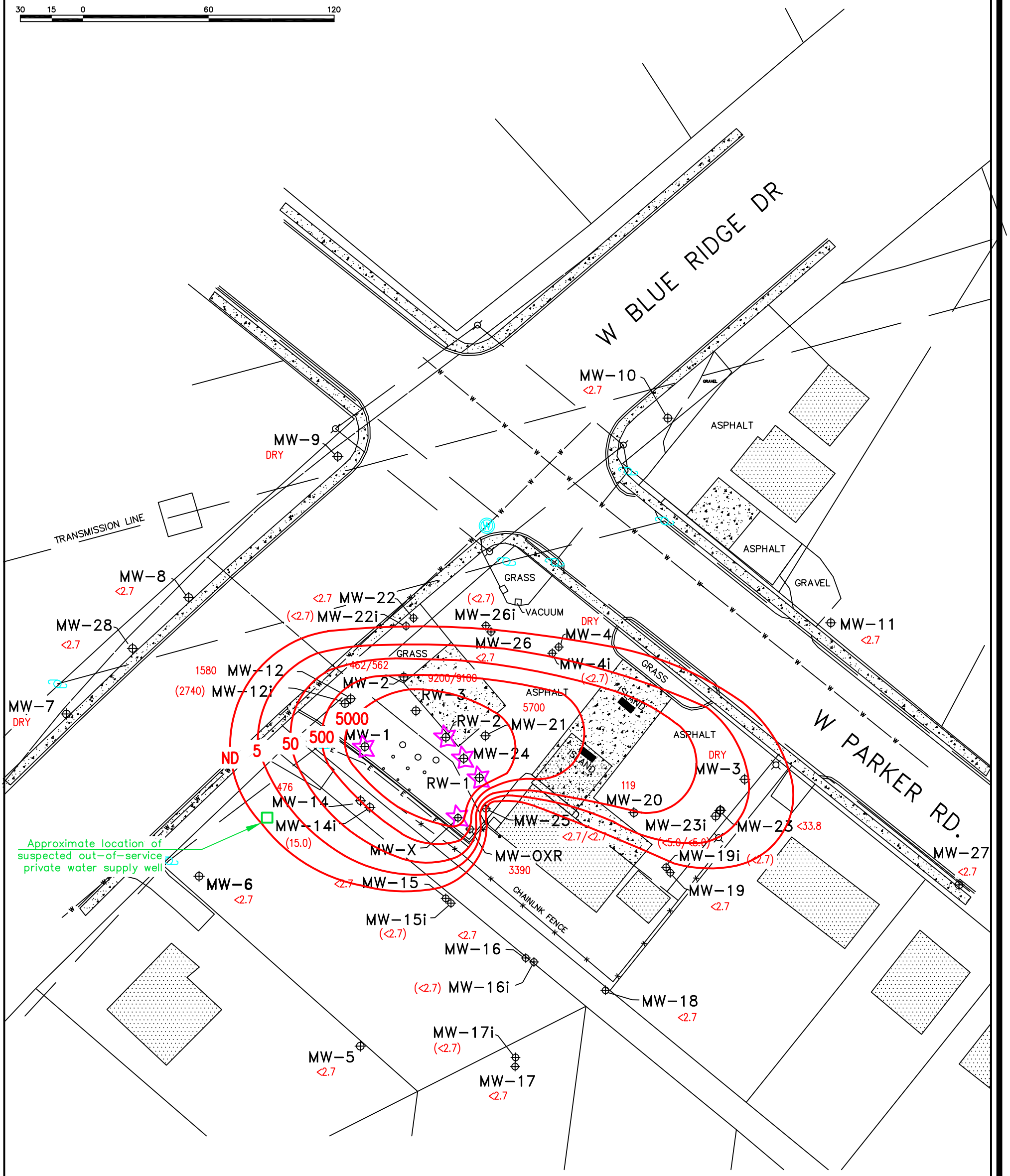
Ethylbenzene Isoconcentration Line

N

Title	Ethylbenzene Isoconcentration Map – April & October 2017		
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County		
Date	10/15/2017	petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 3c
Job No.	J17-232-B		

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; 2 October 2017

30 15 0 60 120



Note:

1) Groundwater samples from newly installed groundwater monitoring wells 12430-MW23I, 12430-MW27, and 12430-MW28 were collected on October 3, 2017.
2) Groundwater samples from previously installed groundwater monitoring wells were collected between April 10, 2017 and April 15, 2017.

Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Xylenes Concentration in Micrograms Per Liter

(2.5J) — Xylenes Concentration In Micrograms Per Liter Not Used For Contouring Purposes Due To The Depth Of The Screened Interval

Xylenes Isoconcentration Line

N

Title	Xylenes Isoconcentration Map – April & October 2017
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	10/15/2017
Job No.	J17-232-B

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Figure No. 3d

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX A

FIELD BORING LOG (12430-MW23I)

Job Name: Westside Quick Stop	**Job Number:** J17-232-B
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 8.5" & 5.5" Roller Cone	**Drill Rig:** AMS 9630
Driller Name: R. McCormack/R. Barkley	**Company:** ERGS, Inc.
Installation Date: October 1, 2017	**Logged By:** Jimmy S.

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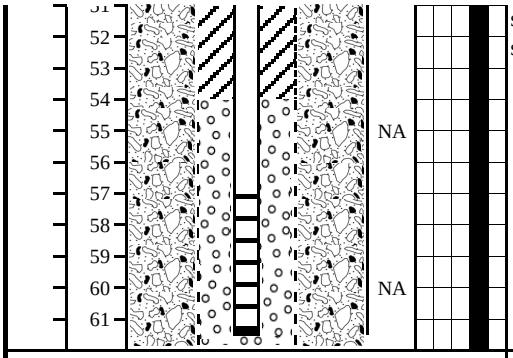
Elevation (feet msl)	Depth (feet)	Graphic Log	Well Diagram	Graphic Log	OVA/PID (PPM)	Dry / Slightly Moist / Moist / Wet / Groundwater	Soil Description
	1–9				NA		Asphalt Moderate brown (10R 4/6), dry, clayey silt
	10–24				NA		Moderate red (5R 4/6), dry, clayey, fine sandy silt
	25–34				NA		Moderate brown (5YR 3/4), dry to moist, clayey, fine to medium sandy silt
	35–49				NA		Dark yellowish brown (10YR 4/2), wet, clayey, silty, medium to course sand
	50–51				NA		Partially weathered rock sampling as moderate yellowish brown (10YR 5/4), wet, clayey,



silty, fine to medium sand. Drill refusal encountered at approximately 62 feet below ground surface.

Boring terminated at 62.0 feet below ground surface.

Legend

- Filter Sand Pack (54.0 - 62.0 feet BGS)
- Bentonite Seal (51.0 - 54.0 feet BGS)
- Bentonite-Cement Grout (0 - 51.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 62.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 28.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105947.632
Easting	=	1570071.009
Top of Casing Elevation	=	1008.21
Ground Surface Elevation	=	1008.66
Total Well Depth	=	61.69
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	56.49-61.49
6-inch Outer Casing Depth	=	50

FIELD BORING LOG (12430-MW27)

Job Name: Westside Quick Stop	**Job Number:** J17-232-B
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: R. McCormack/R. Barkley	**Company:** ERGS, Inc.
Installation Date: September 7, 2017	**Logged By:** Jimmy S.

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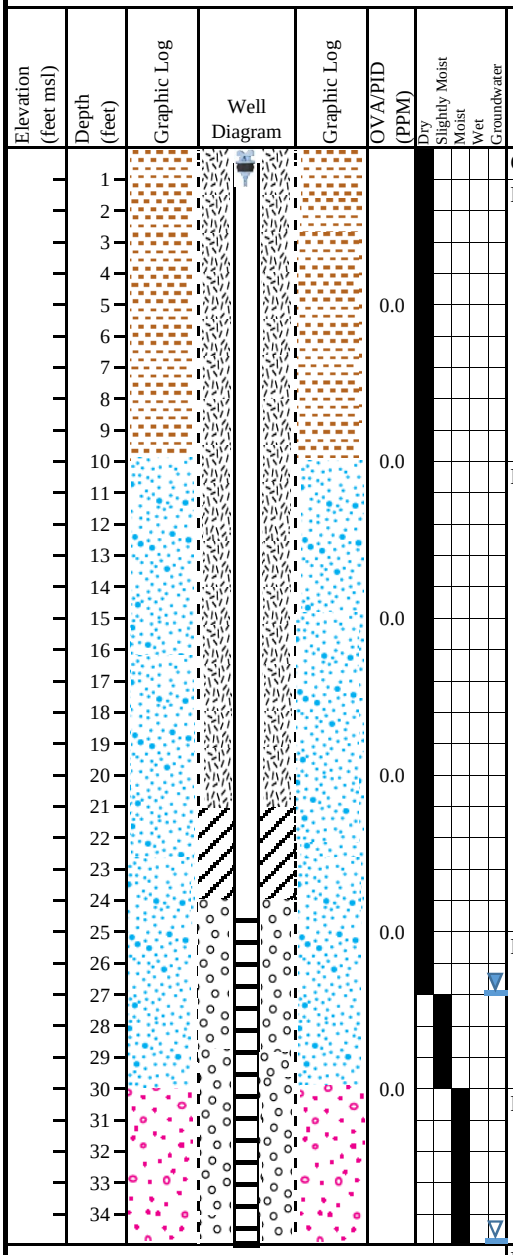

Soil Description
Grass/Organic Topsoil
Moderate brown (10R 4/6), dry, clayey silt
Moderate red (5R 4/6), dry, clayey, fine sandy silt
Moderate brown (5YR 3/4), dry to slightly moist, clayey, fine to medium sandy silt
Dark yellowish brown (10YR 4/2), moist to wet, clayey, silty, medium to course sand
Boring terminated at 35.0 feet below ground surface.

Legend

- Filter Sand Pack (24.0 - 35.0 feet BGS)
- Bentonite Seal (21.0 - 24.0 feet BGS)
- Bentonite-Cement Grout (0 - 24.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay

Notes

Boring terminated at 35.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 27.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105914.125
Easting	=	1570188.735
Top of Casing Elevation	=	1006.96

 Silty Clay	Ground Surface Elevation	=	1007.24
 Clay	Total Well Depth	=	34.7
 Silt	Screen Length	=	10
 Partially Weathered Rock	Screen Size	=	0.01
 Bedrock - Metamorphic	Screened Interval Depth	=	24.50-34.50
 Bedrock - Igneous	6-inch Outer Casing Depth	=	
 Bedrock - Sedimentary			
Other -			

FIELD BORING LOG (12430-MW28)

Job Name: Westside Quick Stop	**Job Number:** J16-232-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9530
Driller Name: R. McCormack/R. Barkley	**Company:** ERGS, Inc.
Installation Date: September 7, 2017	**Logged By:** Jimmy S.

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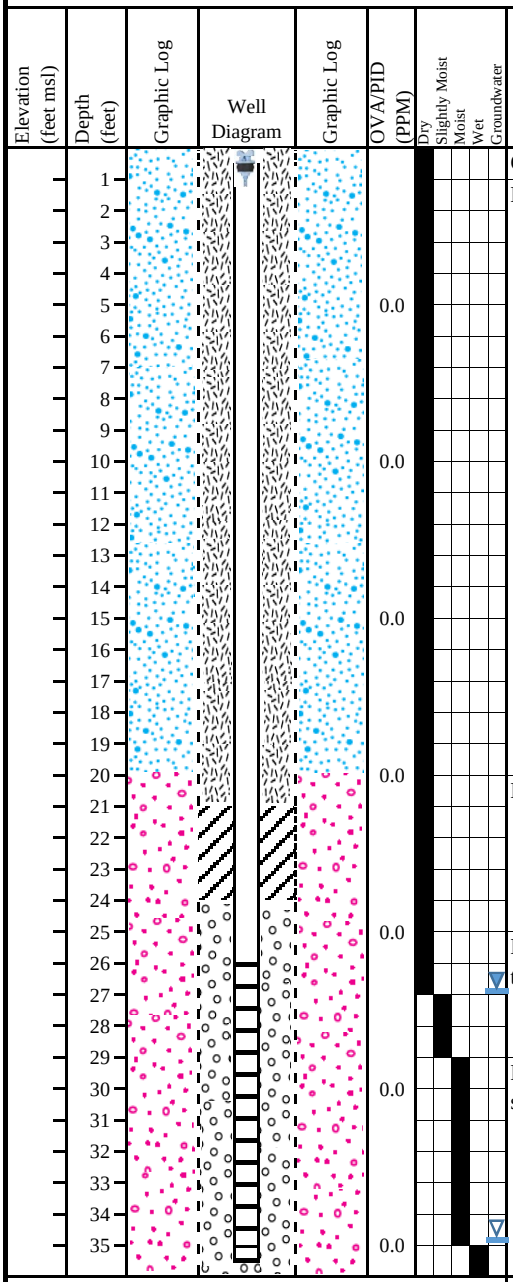


Soil Description
Grass/Organic Topsoil
Blackish red (5R 2/2), dry, moderately micaceous, medium to course sandy, silt
Dusky red (5R 3/4), dry, slightly clayey, silty, fine to course sand
Dark reddish brown (10R 3/4), dry To slightly moist, slightly micaceous, clayey, silty, fine to course sand
Dark reddish brown (10R 3/4), moist to wet, slightly micaceous, clayey, silty, fine to course sand
Boring terminated at 36.0 feet below ground surface.

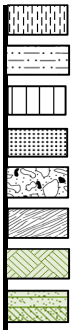
Legend

- Filter Sand Pack (24.0 - 36.0 feet BGS)
- Bentonite Seal (21.0 - 24.0 feet BGS)
- Bentonite-Cement Grout (0 - 21.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt

Notes

Boring terminated at 36.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 27.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1106030.074
Easting	=	1569795.342



Sandy Clay
Silty Clay
Clay
Silt
Partially Weathered Rock
Bedrock - Metamorphic
Bedrock - Igneous
Bedrock - Sedimentary
Other -

Top of Casing Elevation	=	1006.76
Ground Surface Elevation	=	1007.08
Total Well Depth	=	35.91
Screen Length	=	10
Screen Size	=	0.01
Screened Interval Depth	=	25.71-35.71
6-inch Outer Casing Depth	=	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **SCDHEC**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip:
Phone:

2. LOCATION OF WELL: **COUNTY:** **Greenville**
Name: **Westside Quick Stop**
Address: **821 West Parker Road**
City: **Greenville, SC**
1105947.632 1570071.009

3. PUBLIC SYSTEM NAME: 12430 - MW23I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal **51** - **54** ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: **MWA #** 26386 **UST #** 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (**Monitor Well**) Replacement

9. WELL DEPTH (completed)
Date Started: **9/30/2017**
61.69 ft. Date Completed: **10/1/2017**

10. CASING: (**Threaded**) Welded
Diameter: **2"**
Type: **PVC**
Top of Casing Elevation **2.0** in. to **56.49** ft. depth
1008.21 **6.0** in. to **50.0** ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **2"**
Slot/Gauge: **0.010"** Length: **5**
Set Between: **56.49** ft. and **61.49** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **28.00** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Sand**
Installed from: **54.0** ft. to **62.0** ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From **0.0** ft. to **51.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley **CERT NO.: 934**
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: **10/1/17**

If D Level Driller, provide supervising driller's name.
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **SCDHEC**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip:
Phone:

2. LOCATION OF WELL: **COUNTY:** **Greenville**
Name: **Westside Quick Stop**
Address: **821 West Parker Road**
City: **Greenville, SC**
1106030.074 1569795.342

3. PUBLIC SYSTEM NAME: 12430 - MW28

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal **21** - **24** ft BGS

6. TYPE: Mud Rotary | Jetted | Bored
Dug | Air Rotary | Driven
Cable tool | Auger | Other

7. PERMIT NUMBER: **MWA #** 26386 **UST #** 12430

8. USE:
Residential | Public Supply | Process
Irrigation | Air Conditioning | Emergency
Test Well | **Monitor Well** | Replacement

9. WELL DEPTH (completed)
Date Started: **9/7/2017**
35.91 ft. Date Completed: **9/7/2017**

10. CASING: **Threaded** Welded
Diameter: **2"**
Type: **PVC**
Top of Casing Elevation **2.0** in. to **25.71** ft. depth
1006.76 **6.0** in. to **0.0** ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **2"**
Slot/Gauge: **0.010"** Length: **10**
Set Between: **25.71** ft. and **35.71** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **27.00** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Sand**
Installed from: **24.0** ft. to **36.0** ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite **Bentonite/Cement** Other
Depth: From **0.0** ft. to **21.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible | Jet (shallow) | Turbine
Jet (deep) | Reciprocating | Centrifugal

19. WELL DRILLER: Robyn Barkley **CERT NO.: 934**
Address: ERGS, LLC Level: (A) **B** C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: **9/7/17**

If D Level Driller, provide supervising driller's name.
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **SCDHEC**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip:
Phone:

2. LOCATION OF WELL: **COUNTY:** **Greenville**
Name: **Westside Quick Stop**
Address: **821 West Parker Road**
City: **Greenville, SC**
1105914.125 1570188.735

3. PUBLIC SYSTEM NAME: 12430 - MW27

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal **21** - **24** ft BGS

6. TYPE: Mud Rotary | Jetted | Bored
Dug | Air Rotary | Driven
Cable tool | (Auger) | Other

7. PERMIT NUMBER: **MWA #** 26386 **UST #** 12430

8. USE:
Residential | Public Supply | Process
Irrigation | Air Conditioning | Emergency
Test Well | (**Monitor Well**) | Replacement

9. WELL DEPTH (completed)
Date Started: **9/7/2017**
34.70 ft. Date Completed: **9/7/2017**

10. CASING: (**Threaded**) Welded
Diameter: **2"**
Type: **PVC**
Top of Casing Elevation **2.0** in. to **24.5** ft. depth
1006.96 **6.0** in. to **0.0** ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **2"**
Slot/Gauge: **0.010"** Length: **10**
Set Between: **24.50** ft. and **34.50** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **27.00** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Sand**
Installed from: **24.0** ft. to **35.0** ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From **0.0** ft. to **21.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible | Jet (shallow) | Turbine
Jet (deep) | Reciprocating | Centrifugal

19. WELL DRILLER: Robyn Barkley **CERT NO.: 934**
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: **9/7/17**

If D Level Driller, provide supervising driller's name.
Ryan McCormack 2174D

Well Development Field Form

Facility Name: Westside Quick Stop | Site ID#: #12430

Date: 9/2/17 | Field Personnel: R. McCormack / R. Barkley / T. Beaver

Drilling Company: Environmental Remediation & Geophysical Services (ERGS) | Driller's Name: R. McCormack / R. Barkley

Driller's Certification Number: 2174-D / 934-A | Weather Conditions: ~75° / Clear

Well Development Method

Surge Block (X) | Submersible Pump ( ) | Air Lifting ( )

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ( ) | Solid Flight Augers ( ) | Direct Push ( )

Air Rotary ( ) | Mud Rotary (X) | Sonic ( )

Monitoring Well ID# 23± | Well Casing Diameter 2 inches | Borehole Diameter ~6 inches

Depth to Ground Water (DGW) 27.14 ft. | Screen Length/Slot Size 5 ft./ 0.01 in.

Total Well Depth (TWD) 60 ft. | Screen Interval 55 ft. to 60 ft.

Length of water column (LWC=TWD-DGW) 32.86 ft. | Type of Drilling Fluids used: Baroid EZ mud

Total Gallons of Water Removed: 21 gals. | Drilling Fluids recovered ~5 gals.

Time (military)	0713	0721	0735	0741	0746	0752	0759
pH (s.u.)*	6.20	5.43	5.17	5.14	5.26	5.25	5.26
Specific Conductivity (mmhos/cm)*	125	71	46	45	45	45	45
Water Temperature (C)*	23.46	22.14	22.01	22.03	22.02	22.01	22.01
Turbidity (NTU) *	+1000	375	692	104	22.18	16.10	9.47
Odor	Mod						
Cumulative Gallons of Water Removed	10 gals	14 gals	17 gals	18 gals	19 gals	20 gals	21 gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Robyn Barkley | Date: 9/2/17

Well Development Field Form

Facility Name: Westside Quick Stop | Site ID#: #12430

Date: 9/7/17 | Field Personnel: R. McCormack / R. Barkley / T. Beaver

Drilling Company: Environmental Remediation & Geophysical Services (ERGS) | Driller's Name: R. McCormack / R. Barkley

Driller's Certification Number: 2174-D / 934-A | Weather Conditions: ~70°F / Clear

Well Development Method

Surge Block ☒ | Submersible Pump ☒ | Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ☒ | Solid Flight Augers ○ | Direct Push ○

Air Rotary ○ | Mud Rotary ○ | Sonic ○

Monitoring Well ID# MW27 | Well Casing Diameter 2 inches | Borehole Diameter ~7.5 inches

Depth to Ground Water (DGW) 27.97 ft. | Screen Length/Slot Size 10 ft./ 0.01 in.

Total Well Depth (TWD) 35 ft. | Screen Interval 25 ft. to 35 ft.

Length of water column (LWC=TWD-DGW) 7.03 ft. | Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 8 gals. | Drilling Fluids recovered N/A gals.

Time (military)	1745	1800	1810	1820	1830	1840	
pH (s.u.)*	6.97	6.15	6.01	6.05	6.03	6.03	
Specific Conductivity (mmhos/cm)*	85	146	82	60	60	60	
Water Temperature (C)*	21.46	22.37	22.51	22.43	22.40	22.40	
Turbidity (NTU) *	>1000	301	96	21.43	16.85	10	
Odor	None						
Cumulative Gallons of Water Removed	3 gals	4 gals	5 gals	6 gals	7 gals	8 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Robyn Barkley | Date: 9/7/17

Well Development Field Form

Facility Name: Westside Quick Stop | Site ID#: #12430

Date: 9/7/17 | Field Personnel: R. McCormack / R. Barkley / T. Beaver

Drilling Company: Environmental Remediation & Geophysical Services (ERGS) | Driller's Name: R. McCormack / R. Barkley

Driller's Certification Number: 2174-D / 934-A | Weather Conditions: ~70°F / Clear

Well Development Method

Surge Block ☒ | Submersible Pump ☒ | Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ☒ | Solid Flight Augers ○ | Direct Push ○

Air Rotary ○ | Mud Rotary ○ | Sonic ○

Monitoring Well ID# MW28 | Well Casing Diameter 2 inches | Borehole Diameter ~7.5 inches

Depth to Ground Water (DGW) 27.51 ft. | Screen Length/Slot Size 10 ft./ 0.01 in.

Total Well Depth (TWD) 35 ft. | Screen Interval 25 ft. to 35 ft.

Length of water column (LWC=TWD-DGW) 7.49 ft. | Type of Drilling Fluids used: N/A

Total Gallons of Water Removed: 13 gals. | Drilling Fluids recovered N/A gals.

Time (military)	1607	1615	1630	1645	1700		
pH (s.u.)*	6.72	6.49	6.17	6.11	6.10		
Specific Conductivity (mmhos/cm)*	75	62	38	40	40		
Water Temperature (C)*	21.57	22.13	22.01	21.93	21.90		
Turbidity (NTU) *	>1000	192	68	20.13	9.56		
Odor	None						
Cumulative Gallons of Water Removed	4 gals	6 gals	8 gals	10 gals	13 gals	gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Robyn Barkley | Date: 9/7/17

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX B

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: GJTN 000734

GENERATOR

5. Generator's Name and Mailing Address: Pelo Tech Environmental, 2435 E North street, Suite 108-202, Greenville, SC 29615
Generator's Site Address (if different than mailing address)
Generator's Phone: (803) 606-2944

6. Transporter 1 Company Name | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: VLS Recovery Services, LLC, 765 S. Main Street, Moncks, SC 29461 | U.S. EPA ID Number: SCD 000726 468
Facility's Phone: (864) 962-9553

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON-Haz / Non Regulated well water RQ 16374	1	PVC Tank	330	gal	
2.	Lakewood Mobile Home Park Spartanburg, SC Purge/Dev. water	~35	gallons			
3.	Westside Quick Stop Mud/Dril Fluids UST #12430 Purge/Dev/Decon	~75	gallons			
4.	Gapway Baptist Church UST # 16117 Dev/Purge water	~170	gallons			

13. Special Handling Instructions and Additional Information
Powdersville Quick Stop UST ID 00483 Decon/Dev water ~50 gallons

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tyler Reese | Signature | Month: 10 | Day: 9 | Year: 17

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tyler Reese | Signature | Month: 10 | Day: 9 | Year: 17

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jon Brown | Signature | Month: 10 | Day: 9 | Year: 17

GC Labels • Printed in the USA
1-800-997-6966

DESIGNATED FACILITY'S COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	#25768962

GENERATOR

3. Generator's Name and Mailing Address 4. Generator's Phone (including area code)	PTE/ERGS 2435 E. North St Ste 1108-202 Greenville, SC 29615 864/436/6822	Various SCDHEC UST Regulated Sites.
5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
ERGS		864/436/6822
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Twin Chimneys Landfill 11075 Augusta Rd Honea Path, SC 29654	#231001-1102	864/231 9672

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Haz/Non Regulated Soil Cuttings Waste Profile #231001-1102	1	TNR	See weight Ticket ≈ 2.75	TONS
b. Westside Quick Stop UST #12430				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name	Signature	Month	Day	Year
PTE/ERGS	Ryan Mauldin	10	10	17

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year
PTE/ERGS	Ryan Mauldin	10	10	17
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space				
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.				
Printed/Typed Name	Signature	Month	Day	Year
Twin Chimneys Landfill				

ORIGINAL - RETURN TO GENERATOR

25768962
TICKET NUMBER

CAT SCALE®

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

2238
25768962

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

WEIGHMYTRUCK.COM WEIGH USING YOUR PHONE!

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE:	10-10-2017	STEER AXLE	4020 lb
		DRIVE AXLE	14040 lb
SCALE:	719	TRAILER AXLE	00 lb
LOCATION:	PILOT TRAVEL CENTER I-26 EXIT 52 CLINTON SC	* GROSS WEIGHT	18060 lb

W.S. Q.S.
18060-
12560
5500
÷ 2000
2.75
Tons

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

WEIGH NUMBER
8962

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: ERGS TRACTOR #: 001 TRAILER #: SDT

FEE: $11.00 WEIGHMASTER OR WEIGHER SIGNATURE: KARSON CODY FULL WEIGH TICKET # (IF REWEIGH):

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3059 07/16

18 11549
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGHMYTRUCK.COM
WEIGH USING YOUR PHONE!

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 1-19-2017

SCALE: 1241 745

LOCATION: 18311549 PILOT I 85 EXIT35 PIEDMONT SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	4140 lb
DRIVE AXLE	5360 lb
TRAILER AXLE	3060 lb
* GROSS WEIGHT	12560 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

White 3500 w/ High Side Dump Trailer (Empty)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: PETROTEC

TRACTOR #: 1001 TRAILER #: 0

WEIGH NUMBER 1541

FEE $2.00

WEIGHMASTER OR WEIGHER SIGNATURE: MISSY CLARK

FULL WEIGH TICKET # (IF REWEIGH): 18311541

DRIVER IN TRUCK UNLESS CHECKED HERE: ___

CUSTOMER COPY

© CAT Scale® Reg 3059 07/16

Solid Waste Division

Marcia L. Papin
Solid Waste Manager
Mpapin@greenvillecounty.org

(864) 243-9672

www.greenvillecounty.org

Expiration Date: October 25, 2018

Petra-Tech Environmental
Attn: Lindsey Grooms
2435 E. North Street
Suite 1108-202
Greenville South Carolina 29614

RE: Disposal Requirements for Drill Cuttings at Twin Chimneys Landfill – Facility ID #231001-1102

Mr. Grooms:

This office has determined that drill cuttings are suitable for disposal in the Twin Chimneys Landfill in Greenville County. I have received and reviewed your analytical data. Please have your hauler reference the special waste identification number SW-00065 when disposing of this material. The materials for disposal are as outlined:

Reddish brown, dry soil

All disposals are subject to the following conditions:

1. May be brought to the landfill during the hours of 7:30 a.m. to ~~3:00~~ 4:30 p. m., Monday through Friday.

2. Waste must be in solid form. No liquid or hazardous waste will be accepted.

3. Precautions must be taken to prevent leaking or spillage during transport.

4. Special handling waste must be brought in separately from other waste. Otherwise, the entire load will be charged at a special handling rate,

5. Drums must be triple rinsed, with holes punched in them. Lids must be removed prior to disposal.

6. The driver must notify the weigh master of the waste origin and the type of waste in the load.

7. All waste approved by this letter must come into the Twin Chimneys Landfill; otherwise, this letter becomes null and void.

8. The current charge will be _ per ton. Rates are subject to change by ordinance of County Council. If you or your haulers are not on the charge system, you must pay at the gate with cash or a company check.

9. This letter will run for FIVE YEARS ONLY. When a company notifies this office in writing of the unchanged nature of the waste stream and quantities involved, another approval may be issued pending the Solid Waste Department's evaluation. A Company whose waste stream and quantities have changed will need to reflect these changes in their communication.

10. Violations of any of the conditions in this approval will result in immediate termination of this approval by the Solid Waste Division.

11. Disposal must not have adverse effects upon the landfill proper, nor upon the safe and efficient operation of the landfill.

12. All containers deemed empty and landfilled will conform to the Solid Waste Division's definition of empty.

THERE SHALL BE NO EXCEPTIONS TO THIS POLICY

If you have any questions concerning this approval, please do not hesitate to contact this office at (864) 243-9672.

Sincerely,

Marcia Papin
Solid Waste Manager

cc: File

Greenville County Square 301 University Ridge. Suite 3800 Greenville. S. C. 29601-3660 Telefax (864) 243-5276

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX C

GROUNDWATER SAMPLING FIELD LOG

SITE NAME: Westside Quick Stop	SITE LOCATION: Greenville, South Carolina	
WELL NO: MW23I (12430)	WEATHER: Cloudy / Cool	DATE: 10/03/2017

PURGING DATA

Well Diameter (inches): 2	Total Well Depth Measured in Field (feet BTOC): 61.24	Screened Interval: 55 to 60 feet	Depth to Water (feet BTOC): 28.73	Purge Method: ESP
Well Tag Installation Date: 10/1/17	Well Tag Driller License Number 2174	Well Tag Sand 54 To 60	Well Tag Bentonite 51 To 54	Well Tag Grout 0 To 51

Outer Casing Diameter and Depth 50'

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	ODOR	DRY YES OR NO
0700	—	—	22.17	—	6.78	—	185	—	3.28	—	19	—	mod	NO
0708	5	5	21.46	.71	6.31	.47	73	112	1.96	1.32	643	624	↓	↓
0716	3	8	21.38	.08	5.92	.39	60	13	0.92	1.04	107	536		
0722	3	11	21.35	.03	5.76	.16	65	5	0.71	.21	192	85		
0731	3	14	21.37	.02	5.19	.57	65	—	0.75	.04	75	117		
0736	2	16	21.35	.02	5.15	.04	60	5	0.75	—	16.11	59		
0740	2	18	21.34	.01	5.17	.02	60	—	0.77	.02	12.87	4		
0745	1	19	21.33	.01	5.17	—	60	—	0.75	.02	9.13	3	✓	✓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47

STABILIZATION CRITERIA

pH: ± 0.2 units
Dissolved Oxygen: ± 0.2 mg/L or ± 10%
Temperature: ± 0.2 °C
Turbidity: ≤ 10 NTU or ± 10%
Specific Conductance: ± 5%

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jimmy Slagh	SAMPLER(S) SIGNATURE(S): JS	SAMPLING DATE: 10/03/2017	SAMPLING TIME: 0745
SAMPLING METHOD B	DUPLICATE COLLECTED: (YES) OR NO	FIELD-FILTERED: YES OR (NO) FILTER SIZE: Filtration Equipment Type:	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	ARE SAMPLE CONTAINERS PRE-PRESERVED FROM LAB	
✓	3	AG	40ml	HCL	Y	8260B BTEX+M+N+1,2-DCA+8-Oxygenates
✓	3	AG	40ml	HCL	Y	8011 EDB
✓	1	PE	250ml	HNO3	Y	Total Lead

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

GROUNDWATER SAMPLING FIELD LOG

SITE NAME: Westside Quick Stop		SITE LOCATION: Greenville, South Carolina
WELL NO: MW27 (12430)	WEATHER: Cloudy / Cool	DATE: 10/03/2017

PURGING DATA

Well Diameter (inches): 2	Total Well Depth Measured in Field (feet BTOC): 34.42	Screened Interval: 25 to 35 feet	Depth to Water (feet BTOC): 27.26	Purge Method: ESP
Well Tag Installation Date: 9/7/17	Well Tag Driller License Number 2174	Well Tag Sand 24 To 35	Well Tag Bentonite 21 To 24	Well Tag Grout 0 To 21
Outer Casing Diameter and Depth N/A				

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	ODOR	DRY YES OR NO
0800	—	—	22.94	—	6.43	—	85	—	2.97	—	26	—	NO	NO
0810	3	3	22.01	.93	6.24	.19	60	25	2.06	.91	549	523		
0815	2	5	21.83	.18	6.19	.05	45	15	2.18	.12	73	476		
0820	1	6	21.47	.36	6.15	.04	40	5	2.15	.03	62	11		
0825	1	7	21.47	—	6.15	—	40	—	2.15	—	18.13	44		
0830	1	8	21.46	.01	6.17	.02	40	—	2.15	—	9.45	9		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47

STABILIZATION CRITERIA

pH: ± 0.2 units
Dissolved Oxygen: ± 0.2 mg/L or ± 10%
Temperature: ± 0.2 °C
Turbidity: ≤ 10 NTU or ± 10%
Specific Conductance: ± 5%

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jimmy Slagh	SAMPLER(S) SIGNATURE(S): JS	SAMPLING DATE: 10/03/2017	SAMPLING TIME: 0830
SAMPLING METHOD B	DUPLICATE COLLECTED YES OR (NO)	FIELD-FILTERED: YES OR (NO) FILTER SIZE: Filtration Equipment Type:	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	ARE SAMPLE CONTAINERS PRE-PRESERVED FROM LAB	
✓	3	AG	40ml	HCL	Y	8260B BTEX+M+N+1,2-DCA+8-Oxygenates
✓	3	AG	40ml	HCL	Y	8011 EDB
✓	1	PE	250ml	HNO3	Y	Total Lead

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

GROUNDWATER SAMPLING FIELD LOG

SITE NAME: Westside Quick Stop		SITE LOCATION: Greenville, South Carolina
WELL NO: MW28 (12430)	WEATHER: Cloudy / Cool	DATE: 10/03/2017

PURGING DATA

Well Diameter (inches): 2	Total Well Depth Measured in Field (feet BTOC): 35.59	Screened Interval: 25 to 35 feet	Depth to Water (feet BTOC): 26.82	Purge Method: ESP
Well Tag Installation Date: 9/7/17	Well Tag Driller License Number: 2174	Well Tag Sand: 24 To 35	Well Tag Bentonite: 21 To 24	Well Tag Grout: 0 To 21

Outer Casing Diameter and Depth: N/A

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	ODOR	DRY YES OR NO
0845	—	—	22.17	—	6.93	—	121	—	3.27	—	72	—	NO	NO
0850	2	2	22.18	.01	6.71	.22	80	11	2.18	1.09	199	127		
0855	2	4	22.93	.75	6.21	.50	62	18	2.56	.38	384	185		
0900	1	5	22.61	.32	6.25	.04	60	2	2.39	.17	62	322		
0905	1	6	22.60	.01	6.25	—	50	10	2.31	.08	21.01	41		
0910	1	7	22.59	.05	6.24	.01	50	—	2.32	.01	13.08	8		
0915	1	8	22.60	.05	6.21	.03	50	—	2.31	.01	9.52	4	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47

STABILIZATION CRITERIA

pH: ± 0.2 units
Temperature: ± 0.2 °C
Specific Conductance: ± 5%
Dissolved Oxygen: ± 0.2 mg/L or ± 10%
Turbidity: ≤ 10 NTU or ± 10%

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Jimmy Slagh	SAMPLER(S) SIGNATURE(S): JS	SAMPLING DATE: 10/03/2017	SAMPLING TIME: 0915
SAMPLING METHOD: B	DUPLICATE COLLECTED: YES OR (NO)	FIELD-FILTERED: YES OR (NO) FILTER SIZE: Filtration Equipment Type:	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION		INTENDED ANALYSIS AND/OR METHOD
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	ARE SAMPLE CONTAINERS PRE-PRESERVED FROM LAB	
✓	3	AG	40ml	HCL	Y	8260B BTEX+M+N+1,2-DCA+8-Oxygenates
✓	3	AG	40ml	HCL	Y	8011 EDB
✓	1	PE	250ml	HNO3	Y	Total Lead

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX D

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

October 13, 2017

Trever Slack
Petra-Tech Environmental, LLC
2435 E. North Street
Suite 1108-202
Greenville, SC 29615

RE: Project: Westside Quick Stop
Pace Project No.: 92358177

Dear Trever Slack:
Enclosed are the analytical results for sample(s) received by the laboratory on October 06, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Westside Quick Stop
Pace Project No.: 92358177

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Westside Quick Stop
Pace Project No.: 92358177

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92358177001	**12430-MW27**	Water	10/03/17 08:30	10/06/17 14:00
92358177002	**12430-MW28**	Water	10/03/17 09:15	10/06/17 14:00
92358177003	**12430-MW23 I**	Water	10/03/17 07:45	10/06/17 14:00
92358177004	**12430-DUP A**	Water	10/03/17 07:50	10/06/17 14:00
92358177005	**Field Blank**	Water	10/03/17 07:55	10/06/17 14:00
92358177006	**Trip Blank**	Water	10/03/17 00:00	10/06/17 14:00

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: Westside Quick Stop
Pace Project No.: 92358177

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92358177001	**12430-MW27**	EPA 8011	KPS	2	PASI-C
		EPA 6010	DS	1	PASI-A
		EPA 8260	ZDO	18	PASI-C
92358177002	**12430-MW28**	EPA 8011	KPS	2	PASI-C
		EPA 6010	DS	1	PASI-A
		EPA 8260	ZDO	18	PASI-C
92358177003	**12430-MW23 I**	EPA 8011	KPS	2	PASI-C
		EPA 6010	DS	1	PASI-A
		EPA 8260	ZDO	18	PASI-C
92358177004	**12430-DUP A**	EPA 8011	KPS	2	PASI-C
		EPA 6010	DS	1	PASI-A
		EPA 8260	ZDO	18	PASI-C
92358177005	**Field Blank**	EPA 8011	KPS	2	PASI-C
		EPA 8260	ZDO	18	PASI-C
92358177006	**Trip Blank**	EPA 8260	SWB	18	PASI-C

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Westside Quick Stop
Pace Project No.: 92358177

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92358177003	**12430-MW23 I**					
EPA 8260	tert-Amyl Alcohol	202	ug/L	100	10/11/17 04:59	
EPA 8260	Benzene	115	ug/L	5.0	10/11/17 04:59	
EPA 8260	Diisopropyl ether	16.3	ug/L	5.0	10/11/17 04:59	
EPA 8260	Ethylbenzene	3.1J	ug/L	5.0	10/11/17 04:59	
EPA 8260	Methyl-tert-butyl ether	9.3	ug/L	5.0	10/11/17 04:59	
EPA 8260	Naphthalene	3.3J	ug/L	5.0	10/11/17 04:59	
EPA 8260	Toluene	4.9J	ug/L	5.0	10/11/17 04:59	
92358177004	**12430-DUP A**					
EPA 8260	tert-Amyl Alcohol	199	ug/L	100	10/11/17 05:16	
EPA 8260	Benzene	105	ug/L	5.0	10/11/17 05:16	
EPA 8260	Diisopropyl ether	14.8	ug/L	5.0	10/11/17 05:16	
EPA 8260	Ethylbenzene	2.9J	ug/L	5.0	10/11/17 05:16	
EPA 8260	Methyl-tert-butyl ether	8.4	ug/L	5.0	10/11/17 05:16	
EPA 8260	Naphthalene	3.3J	ug/L	5.0	10/11/17 05:16	
EPA 8260	Toluene	4.5J	ug/L	5.0	10/11/17 05:16	

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92358177

Sample: 12430-MW27 **Lab ID: 92358177001** Collected: 10/03/17 08:30 Received: 10/06/17 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/09/17 15:32	10/09/17 21:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	10/09/17 15:32	10/09/17 21:18	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Lead	ND	ug/L	5.0	2.5	1	10/07/17 19:10	10/10/17 15:51	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/11/17 04:24	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/11/17 04:24	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/17 04:24	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/11/17 04:24	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/11/17 04:24	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/11/17 04:24	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/11/17 04:24	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/11/17 04:24	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/11/17 04:24	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/11/17 04:24	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/11/17 04:24	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/11/17 04:24	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/11/17 04:24	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/11/17 04:24	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/17 04:24	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/11/17 04:24	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		10/11/17 04:24	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		10/11/17 04:24	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92358177

Sample: 12430-MW28 **Lab ID: 92358177002** Collected: 10/03/17 09:15 Received: 10/06/17 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/09/17 15:32	10/09/17 21:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	10/09/17 15:32	10/09/17 21:54	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Lead	ND	ug/L	5.0	2.5	1	10/07/17 19:10	10/10/17 16:03	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/11/17 04:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/11/17 04:42	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/11/17 04:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/11/17 04:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/11/17 04:42	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/11/17 04:42	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/11/17 04:42	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/11/17 04:42	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/11/17 04:42	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/11/17 04:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/11/17 04:42	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/11/17 04:42	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/11/17 04:42	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/11/17 04:42	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/17 04:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/11/17 04:42	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		10/11/17 04:42	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		10/11/17 04:42	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92358177

Sample: 12430-MW23 I **Lab ID: 92358177003** Collected: 10/03/17 07:45 Received: 10/06/17 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/09/17 15:33	10/09/17 22:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	142	%	60-140		1	10/09/17 15:33	10/09/17 22:12	301-79-56	S3
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Lead	ND	ug/L	5.0	2.5	1	10/07/17 19:10	10/10/17 16:43	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**202**	ug/L	100	76.8	1		10/11/17 04:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/11/17 04:59	994-05-8	
Benzene	**115**	ug/L	5.0	1.7	1		10/11/17 04:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/11/17 04:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/11/17 04:59	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/11/17 04:59	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/11/17 04:59	107-06-2	
Diisopropyl ether	**16.3**	ug/L	5.0	1.7	1		10/11/17 04:59	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/11/17 04:59	64-17-5	
Ethylbenzene	**3.1J**	ug/L	5.0	1.6	1		10/11/17 04:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/11/17 04:59	637-92-3	
Methyl-tert-butyl ether	**9.3**	ug/L	5.0	1.7	1		10/11/17 04:59	1634-04-4	
Naphthalene	**3.3J**	ug/L	5.0	2.0	1		10/11/17 04:59	91-20-3	
Toluene	**4.9J**	ug/L	5.0	1.6	1		10/11/17 04:59	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/17 04:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		10/11/17 04:59	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		10/11/17 04:59	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/11/17 04:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92358177

Sample: 12430-DUP A **Lab ID: 92358177004** Collected: 10/03/17 07:50 Received: 10/06/17 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	10/09/17 15:33	10/09/17 22:48	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	10/09/17 15:33	10/09/17 22:48	301-79-56	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010A								
Lead	ND	ug/L	5.0	2.5	1	10/07/17 19:10	10/10/17 16:46	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**199**	ug/L	100	76.8	1		10/11/17 05:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/11/17 05:16	994-05-8	
Benzene	**105**	ug/L	5.0	1.7	1		10/11/17 05:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/11/17 05:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/11/17 05:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/11/17 05:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/11/17 05:16	107-06-2	
Diisopropyl ether	**14.8**	ug/L	5.0	1.7	1		10/11/17 05:16	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/11/17 05:16	64-17-5	
Ethylbenzene	**2.9J**	ug/L	5.0	1.6	1		10/11/17 05:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/11/17 05:16	637-92-3	
Methyl-tert-butyl ether	**8.4**	ug/L	5.0	1.7	1		10/11/17 05:16	1634-04-4	
Naphthalene	**3.3J**	ug/L	5.0	2.0	1		10/11/17 05:16	91-20-3	
Toluene	**4.5J**	ug/L	5.0	1.6	1		10/11/17 05:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/11/17 05:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/11/17 05:16	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		10/11/17 05:16	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		10/11/17 05:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92358177

Sample: Field Blank **Lab ID: 92358177005** Collected: 10/03/17 07:55 Received: 10/06/17 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	10/09/17 15:34	10/10/17 00:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	10/09/17 15:34	10/10/17 00:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/10/17 15:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/10/17 15:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/10/17 15:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/10/17 15:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/10/17 15:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/10/17 15:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/10/17 15:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/10/17 15:44	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/10/17 15:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/10/17 15:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/10/17 15:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/10/17 15:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/10/17 15:44	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/10/17 15:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/10/17 15:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		10/10/17 15:44	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		10/10/17 15:44	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		10/10/17 15:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92358177

Sample: Trip Blank **Lab ID: 92358177006** Collected: 10/03/17 00:00 Received: 10/06/17 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		10/12/17 15:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		10/12/17 15:11	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		10/12/17 15:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		10/12/17 15:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		10/12/17 15:11	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		10/12/17 15:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		10/12/17 15:11	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		10/12/17 15:11	108-20-3	
Ethanol	ND	ug/L	200	131	1		10/12/17 15:11	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		10/12/17 15:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		10/12/17 15:11	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		10/12/17 15:11	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		10/12/17 15:11	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		10/12/17 15:11	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		10/12/17 15:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/12/17 15:11	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		10/12/17 15:11	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		10/12/17 15:11	2037-26-5	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

QC Batch: 381333 Analysis Method: EPA 6010
QC Batch Method: EPA 3010A Analysis Description: 6010 MET
Associated Lab Samples: 92358177001, 92358177002, 92358177003, 92358177004

METHOD BLANK: 2113507 Matrix: Water
Associated Lab Samples: 92358177001, 92358177002, 92358177003, 92358177004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead	ug/L	ND	5.0	2.5	10/10/17 12:12	

LABORATORY CONTROL SAMPLE: 2113508

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	495	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2113509 2113510

Parameter	Units	92357854001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	ND	500	500	466	471	93	94	75-125	1	20	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

QC Batch: 381697 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92358177005

METHOD BLANK: 2115263 Matrix: Water
Associated Lab Samples: 92358177005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/10/17 15:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/10/17 15:09	
Benzene	ug/L	ND	5.0	1.7	10/10/17 15:09	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/10/17 15:09	
Ethanol	ug/L	ND	200	131	10/10/17 15:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/10/17 15:09	
Ethylbenzene	ug/L	ND	5.0	1.6	10/10/17 15:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/10/17 15:09	
Naphthalene	ug/L	ND	5.0	2.0	10/10/17 15:09	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/10/17 15:09	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/10/17 15:09	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/10/17 15:09	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/10/17 15:09	
Toluene	ug/L	ND	5.0	1.6	10/10/17 15:09	
Xylene (Total)	ug/L	ND	5.0	5.0	10/10/17 15:09	
1,2-Dichloroethane-d4 (S)	%	91	70-130		10/10/17 15:09	
4-Bromofluorobenzene (S)	%	95	70-130		10/10/17 15:09	
Toluene-d8 (S)	%	109	70-130		10/10/17 15:09	

LABORATORY CONTROL SAMPLE: 2115264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.3	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	893	89	70-130	
Benzene	ug/L	50	49.1	98	70-130	
Diisopropyl ether	ug/L	50	54.3	109	70-130	
Ethanol	ug/L	2000	2180	109	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	46.0	92	70-130	
Methyl-tert-butyl ether	ug/L	50	50.1	100	70-130	
Naphthalene	ug/L	50	50.1	100	70-130	
tert-Amyl Alcohol	ug/L	1000	902	90	70-130	
tert-Amylmethyl ether	ug/L	100	99.4	99	70-130	
tert-Butyl Alcohol	ug/L	500	462	92	70-130	
tert-Butyl Formate	ug/L	400	336	84	70-130	
Toluene	ug/L	50	45.2	90	70-130	
Xylene (Total)	ug/L	150	134	89	70-130	
1,2-Dichloroethane-d4 (S)	%			105	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			98	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2115265 2115266

Parameter	Units	92357955013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	200	200	193	187	97	94	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	3530	3490	88	87	70-130	1	30	
Benzene	ug/L	ND	200	200	218	217	109	108	70-130	0	30	
Diisopropyl ether	ug/L	ND	200	200	201	212	101	106	70-130	5	30	
Ethanol	ug/L	ND	8000	8000	9610	9040	120	113	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	400	400	377	390	94	97	70-130	3	30	
Ethylbenzene	ug/L	992	200	200	1170	1170	88	89	70-130	0	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	187	195	93	98	70-130	4	30	
Naphthalene	ug/L	368	200	200	588	600	110	116	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	4000	4000	3450	3470	86	87	70-130	0	30	
tert-Amylmethyl ether	ug/L	ND	400	400	399	410	100	102	70-130	3	30	
tert-Butyl Alcohol	ug/L	ND	2000	2000	2210	1950	111	98	70-130	13	30	
tert-Butyl Formate	ug/L	ND	1600	1600	810	815	51	51	70-130	1	30	M1,P5
Toluene	ug/L	77.3	200	200	275	286	99	105	70-130	4	30	
1,2-Dichloroethane-d4 (S)	%						93	94	70-130			
4-Bromofluorobenzene (S)	%						95	97	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

QC Batch: 381721 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92358177001, 92358177002, 92358177003, 92358177004

METHOD BLANK: 2115480 Matrix: Water
Associated Lab Samples: 92358177001, 92358177002, 92358177003, 92358177004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/11/17 03:15	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/11/17 03:15	
Benzene	ug/L	ND	5.0	1.7	10/11/17 03:15	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/11/17 03:15	
Ethanol	ug/L	ND	200	131	10/11/17 03:15	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/11/17 03:15	
Ethylbenzene	ug/L	ND	5.0	1.6	10/11/17 03:15	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/11/17 03:15	
Naphthalene	ug/L	ND	5.0	2.0	10/11/17 03:15	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/11/17 03:15	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/11/17 03:15	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/11/17 03:15	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/11/17 03:15	
Toluene	ug/L	ND	5.0	1.6	10/11/17 03:15	
Xylene (Total)	ug/L	ND	5.0	5.0	10/11/17 03:15	
1,2-Dichloroethane-d4 (S)	%	89	70-130		10/11/17 03:15	
4-Bromofluorobenzene (S)	%	98	70-130		10/11/17 03:15	
Toluene-d8 (S)	%	105	70-130		10/11/17 03:15	

LABORATORY CONTROL SAMPLE: 2115481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.6	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	798	80	70-130	
Benzene	ug/L	50	48.8	98	70-130	
Diisopropyl ether	ug/L	50	51.5	103	70-130	
Ethanol	ug/L	2000	1920	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.6	98	70-130	
Ethylbenzene	ug/L	50	43.9	88	70-130	
Methyl-tert-butyl ether	ug/L	50	48.9	98	70-130	
Naphthalene	ug/L	50	49.9	100	70-130	
tert-Amyl Alcohol	ug/L	1000	816	82	70-130	
tert-Amylmethyl ether	ug/L	100	94.3	94	70-130	
tert-Butyl Alcohol	ug/L	500	417	83	70-130	
tert-Butyl Formate	ug/L	400	319	80	70-130	
Toluene	ug/L	50	44.8	90	70-130	
Xylene (Total)	ug/L	150	129	86	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			94	70-130	
Toluene-d8 (S)	%			97	70-130	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2115482 2115483

Parameter	Units	92357958009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	200	200	194	188	97	94	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	4000	4000	3220	3350	80	84	70-130	4	30	
Benzene	ug/L	224	200	200	442	455	109	115	70-130	3	30	
Diisopropyl ether	ug/L	ND	200	200	203	215	102	107	70-130	5	30	
Ethanol	ug/L	ND	8000	8000	8350	8900	104	111	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	400	400	384	391	96	98	70-130	2	30	
Ethylbenzene	ug/L	774	200	200	990	1000	108	113	70-130	1	30	
Methyl-tert-butyl ether	ug/L	ND	200	200	191	198	96	99	70-130	3	30	
Naphthalene	ug/L	420	200	200	627	662	103	121	70-130	5	30	
tert-Amyl Alcohol	ug/L	ND	4000	4000	2870	3290	72	82	70-130	14	30	
tert-Amylmethyl ether	ug/L	ND	400	400	385	386	96	96	70-130	0	30	
tert-Butyl Alcohol	ug/L	ND	2000	2000	2080	2260	104	113	70-130	8	30	
tert-Butyl Formate	ug/L	ND	1600	1600	513	558	32	35	70-130	8	30	P5
Toluene	ug/L	1130	200	200	1270	1290	70	80	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						94	92	70-130			
4-Bromofluorobenzene (S)	%						96	95	70-130			
Toluene-d8 (S)	%						99	101	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

QC Batch: 382076
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92358177006

METHOD BLANK: 2117201
Matrix: Water
Associated Lab Samples: 92358177006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	10/12/17 13:28	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	10/12/17 13:28	
Benzene	ug/L	ND	5.0	1.7	10/12/17 13:28	
Diisopropyl ether	ug/L	ND	5.0	1.7	10/12/17 13:28	
Ethanol	ug/L	ND	200	131	10/12/17 13:28	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	10/12/17 13:28	
Ethylbenzene	ug/L	ND	5.0	1.6	10/12/17 13:28	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	10/12/17 13:28	
Naphthalene	ug/L	ND	5.0	2.0	10/12/17 13:28	
tert-Amyl Alcohol	ug/L	ND	100	76.8	10/12/17 13:28	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	10/12/17 13:28	
tert-Butyl Alcohol	ug/L	ND	100	57.7	10/12/17 13:28	
tert-Butyl Formate	ug/L	ND	50.0	7.3	10/12/17 13:28	
Toluene	ug/L	ND	5.0	1.6	10/12/17 13:28	
Xylene (Total)	ug/L	ND	5.0	5.0	10/12/17 13:28	
1,2-Dichloroethane-d4 (S)	%	102	70-130		10/12/17 13:28	
4-Bromofluorobenzene (S)	%	96	70-130		10/12/17 13:28	
Toluene-d8 (S)	%	103	70-130		10/12/17 13:28	

LABORATORY CONTROL SAMPLE: 2117202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.7	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1100	110	70-130	
Benzene	ug/L	50	51.5	103	70-130	
Diisopropyl ether	ug/L	50	58.7	117	70-130	
Ethanol	ug/L	2000	1890	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	104	104	70-130	
Ethylbenzene	ug/L	50	52.2	104	70-130	
Methyl-tert-butyl ether	ug/L	50	52.9	106	70-130	
Naphthalene	ug/L	50	53.4	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1050	105	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	520	104	70-130	
tert-Butyl Formate	ug/L	400	454	113	70-130	
Toluene	ug/L	50	52.8	106	70-130	
Xylene (Total)	ug/L	150	158	106	70-130	
1,2-Dichloroethane-d4 (S)	%			98	70-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Toluene-d8 (S)	%			102	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

MATRIX SPIKE SAMPLE: 2117209

Parameter	Units	92358277005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.6	103	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	421	105	70-130	
Benzene	ug/L	ND	20	20.5	103	70-130	
Diisopropyl ether	ug/L	ND	20	22.2	109	70-130	
Ethanol	ug/L	ND	800	839	105	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	40.9	102	70-130	
Ethylbenzene	ug/L	ND	20	22.6	113	70-130	
Methyl-tert-butyl ether	ug/L	3.4J	20	24.2	104	70-130	
Naphthalene	ug/L	ND	20	20.6	103	70-130	
tert-Amyl Alcohol	ug/L	ND	400	406	102	70-130	
tert-Amylmethyl ether	ug/L	ND	40	40.0	100	70-130	
tert-Butyl Alcohol	ug/L	ND	200	282	141	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	21.1	105	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 2117210

Parameter	Units	92358277006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	108	1		
4-Bromofluorobenzene (S)	%	104	97	7		
Toluene-d8 (S)	%	106	109	3		

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(704)875-9092

QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92358177

QC Batch: 381437 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92358177001, 92358177002, 92358177003, 92358177004, 92358177005

METHOD BLANK: 2113809 Matrix: Water
Associated Lab Samples: 92358177001, 92358177002, 92358177003, 92358177004, 92358177005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	10/09/17 17:02	
1-Chloro-2-bromopropane (S)	%	113	60-140		10/09/17 17:02	

LABORATORY CONTROL SAMPLE & LCSD: 2113810 2113811

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.29	0.29	119	117	60-140	0	20	
1-Chloro-2-bromopropane (S)	%				110	103	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2113812 2113813

Parameter	Units	92358128007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.29	0.30	121	126	60-140	4	20	
1-Chloro-2-bromopropane (S)	%						105	106	60-140			

SAMPLE DUPLICATE: 2113814

Parameter	Units	92358178003 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	116	105	11		

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QUALIFIERS

Project: Westside Quick Stop
Pace Project No.: 92358177

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Westside Quick Stop
Pace Project No.: 92358177

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92358177001	**12430-MW27**	EPA 8011	381437	EPA 8011	381547
92358177002	**12430-MW28**	EPA 8011	381437	EPA 8011	381547
92358177003	**12430-MW23 I**	EPA 8011	381437	EPA 8011	381547
92358177004	**12430-DUP A**	EPA 8011	381437	EPA 8011	381547
92358177005	**Field Blank**	EPA 8011	381437	EPA 8011	381547
92358177001	**12430-MW27**	EPA 3010A	381333	EPA 6010	381391
92358177002	**12430-MW28**	EPA 3010A	381333	EPA 6010	381391
92358177003	**12430-MW23 I**	EPA 3010A	381333	EPA 6010	381391
92358177004	**12430-DUP A**	EPA 3010A	381333	EPA 6010	381391
92358177001	**12430-MW27**	EPA 8260	381721		
92358177002	**12430-MW28**	EPA 8260	381721		
92358177003	**12430-MW23 I**	EPA 8260	381721		
92358177004	**12430-DUP A**	EPA 8260	381721		
92358177005	**Field Blank**	EPA 8260	381697		
92358177006	**Trip Blank**	EPA 8260	382076		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: July 25, 2017 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.03	Issuing Authority: Pace Quality Office

Laboratory receiving samples:
Asheville ☒ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: Petra-Tech Env. **Projec**

WO# : 92358177

92358177

Courier: ☐ Commercial ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No **Seals Intact?** ☐ Yes ☒ No

Date/Initials Person Examining Contents: 10/12/11 AL

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 5

Type of Ice: ☒ Wet ☐ Blue ☐ None

Correction Factor: **Cooler Temp Corrected (°C):** 3.0

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☒ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

		Comments/Discrepancy:
Chain of Custody Present?	☒ Yes ☐ No ☐ N/A	1.
Samples Arrived within Hold Time?	☒ Yes ☐ No ☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes ☒ No ☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes ☒ No ☐ N/A	4.
Sufficient Volume?	☒ Yes ☐ No ☐ N/A	5.
Correct Containers Used?	☒ Yes ☐ No ☐ N/A	6.
-Pace Containers Used?	☒ Yes ☐ No ☐ N/A	
Containers Intact?	☒ Yes ☐ No ☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes ☒ No ☐ N/A	8.
Sample Labels Match COC?	☒ Yes ☐ No ☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT		
Headspace in VOA Vials (>5-6mm)?	☐ Yes ☒ No ☐ N/A	10.
Trip Blank Present?	☒ Yes ☐ No ☐ N/A	11.
Trip Blank Custody Seals Present?	☒ Yes ☐ No ☐ N/A	

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Sample Discrepancy: _____

Project Manager SCURF Review: (TE) **Date:** 10/10

Project Manager SRF Review: (TE) **Date:** 10/10

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers)

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

**Bottom half of box is to list number of bottles

Project # WO#: 92358177

PM: PTE Due Date: 10/13/17

CLIENT: 92-Petra-Tec

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP3Z-250 mL Plastic ZN Acetate & NaOH (>9)	BP3C-250 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	Cubitainer	VSGU-20 mL Scintillation vials (N/A)	GN
1						1										6												
2						1										6												
3						1										6												
4						1										6												
5						1 AD			10/6/17							6												
6																2												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
3	HNO3	4.5	10/6/17	1445	0.4	111705

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

Section A Required Client Information:

Company:	Petra-Tech Environmental, LLC
Address:	2435 East North Street, STE 1108-202
	Greenville, South Carolina 29615
Email To:	tslack@petratechenv.com
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	Trever Slack
Copy To:	
Purchase Order No.:	
Project Name:	Westside Quick Stop
Project Number:	J17-232-A

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 8260B	BTEX+MTBE+1,2DCA+8011	EDB	6010 Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	12430-MW27	WT	G	10/3/17			0830											X			X	X		92358177 001
2	12430-MW28						0915											X			X	X		002
3	12430-MW23I						0745											X			X	X		003
4	Dup A						0750											X			X	X		004
5	Field Blank						0755											X			X	X		005
6	Trip Blank			—			—											X						006
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		10.6.17	1235	S. Bell	10.6.17	1235				
	S. Bell	10.6.17	1400	A. Wilson Pace	10/6/17	1400	3.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX E









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Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	✓		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?			✓
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?			✓
11	Has the site-specific geology and hydrogeology been described?			✓
12	Has the primary soil type been described?	✓		
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?	✓		
17	Has the method of well development been detailed?	✓		
18	Has justification been provided for the locations of the monitoring wells?	✓		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	✓		
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?			✓
27	Does the report include a brief discussion of the fate & transport models used?			✓

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?			✓
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			✓
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)			✓
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)			✓
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)			✓
48	Have the well completion logs, DHEC Form 2099, and DHEC Form 1903 been provided? (Appendix E)			✓
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			✓
50	Have the disposal manifests been provided? (Appendix G)	✓		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			✓
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		

Explanation for missing and incomplete information?

Project Verifier (signature) Mary K Jones

(print name) Mary K Jones

Date 10 / 15 / 2017

dhec
Healthy People. Healthy Communities.

NOV 1 5 2017



SHREE GAJVAKRA LLC
ATTN: ANKUR PATEL
205 FAIRWAY DRIVE
LAURENS SOUTH CAROLINA 29360-7700

Re: **SSWP for GWS and Additional Assessment**
Westside Quick Stop, 821 West Parker Road, Greenville, SC
UST Permit # 12430
Release #2 Reported October 23, 2012
Tier II Assessment Addendum Report Received October 31, 2017.
Greenville County

Dear Mr. Patel:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by Petra-Tech Environmental on behalf of Environmental Laboratories. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs). The next appropriate scope of work at the site is to install two additional transition zone monitoring wells and conduct a comprehensive groundwater sampling event. Please install the wells near MW-18 and 27.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of monitoring well installation and groundwater sampling is necessary. The assessment must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Your contractor must complete the Site-Specific Work Plan (SSWP). The SSWP and Cost Proposal must be submitted within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence concerning this site, please reference UST Permit # 12430. If there are any questions concerning this project, you may contact me at (803) 898-0601 or by email at knightbt@dhec.sc.gov.

Sincerely,

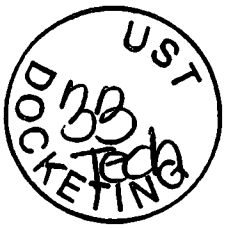
Tom Knight, P.G., Hydrogeologist
Assessment & Unregulated Petroleum Section
UST Management Division
Bureau of Land and Waste Management

cc: Environmental Laboratories, Inc., 2121 Roe Ford Rd., Greenville, SC 29617
Petra-Tech Environmental LLC, 2435 E. North Street, Ste 1108-202, Greenville, SC 29615
Technical file

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

December 14, 2017

SCDHEC - UST Management Division
Corrective Action Section
2600 Bull Street
Columbia, SC 29201-1708





Attention: Mr. Tom Knight, P.G.

Subject: **Site Specific Work Plan**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J17-528-A

Dear Mr. Knight:

On behalf of Environmental Laboratories, Inc. and Shree Gajvakra LLC, Petra-Tech Environmental, LLC submits herein the completed Site Specific Work Plan for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) Site Specific Work Plan Directive dated November 15, 2017.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Tom Knight, P.G. (SCDHEC Project Manager)
From: Trever Slack, P.G. (Contractor Project Manager)
Contractor: Petra-Tech Environmental, LLC UST Contractor Certification Number: UCC-436

Facility Name: Westside Quick stop UST Permit #: 12430
Facility Address: 821 West Parker Road, Greenville, South Carolina
Responsible Party: Shree Gajvakra LLC Phone: 864.271.9400
RP Address: 205 Fairway Drive, Laurens, South Carolina 29360-7700
Property Owner (if different): _____
Property Owner Address: _____
Current Use of Property: Fueling station / convenience store

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☑ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other _____
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH (8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other _____
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB (504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☑ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	1 Water Supply Wells	_____ Air	4 Field Blank
42 Monitoring Wells	_____ Surface Water	3 Duplicate	4 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: 2 Estimated Footage: 65 feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

_____

_____

UST Permit #: 12430 Facility Name: Westside Quick Stop

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 15 Field Work Completion: 60

Report Submittal: 90 # of Copies Provided to Property Owners: 1

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: 5 Tons Purge Water: 150 Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

Yes Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

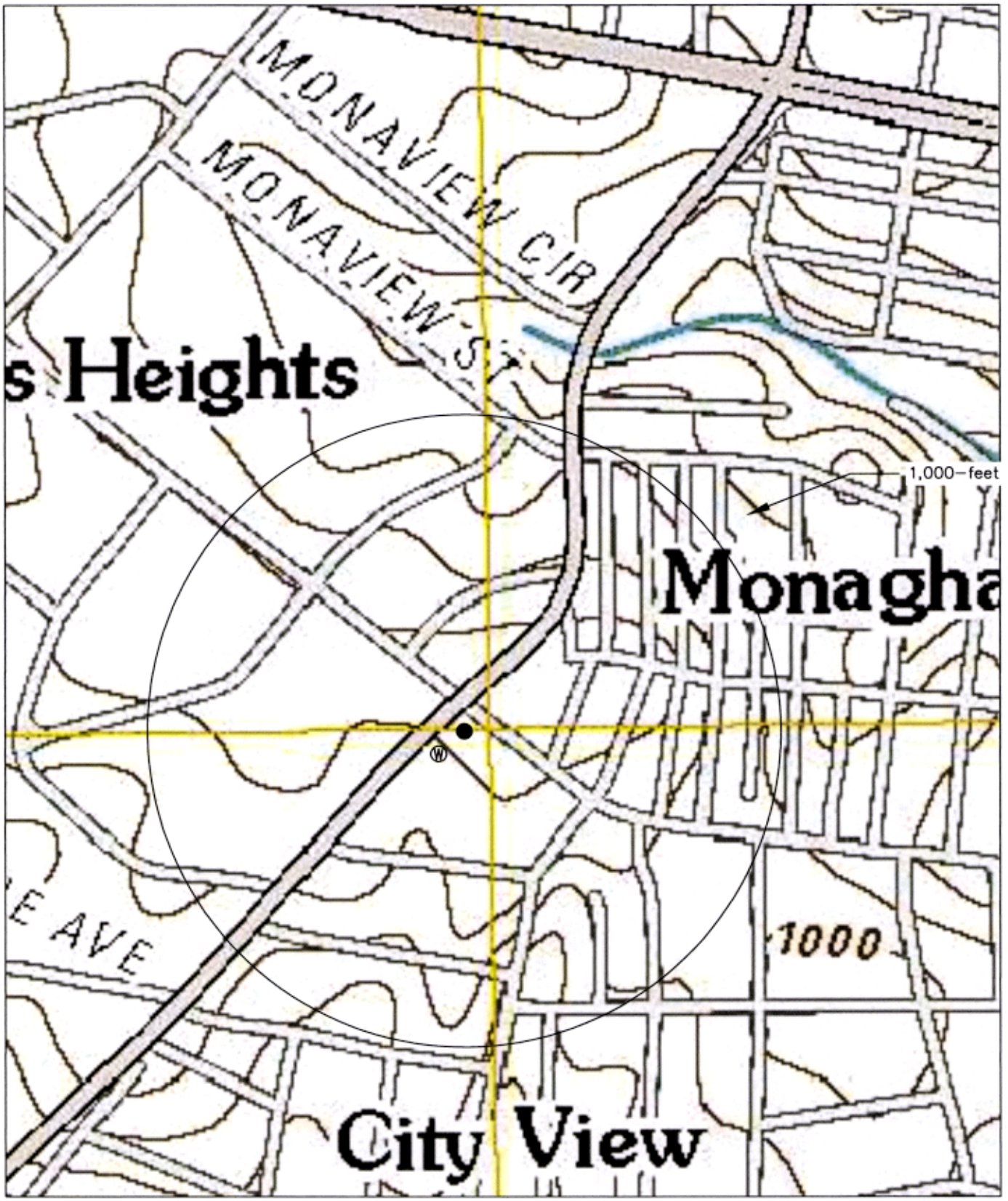
Name of Well Driller: _____

SCLLR Certification Number: _____

No Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



Reference: USGS 7.5-Minute series Greenville Quadrangle – 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

● SITE

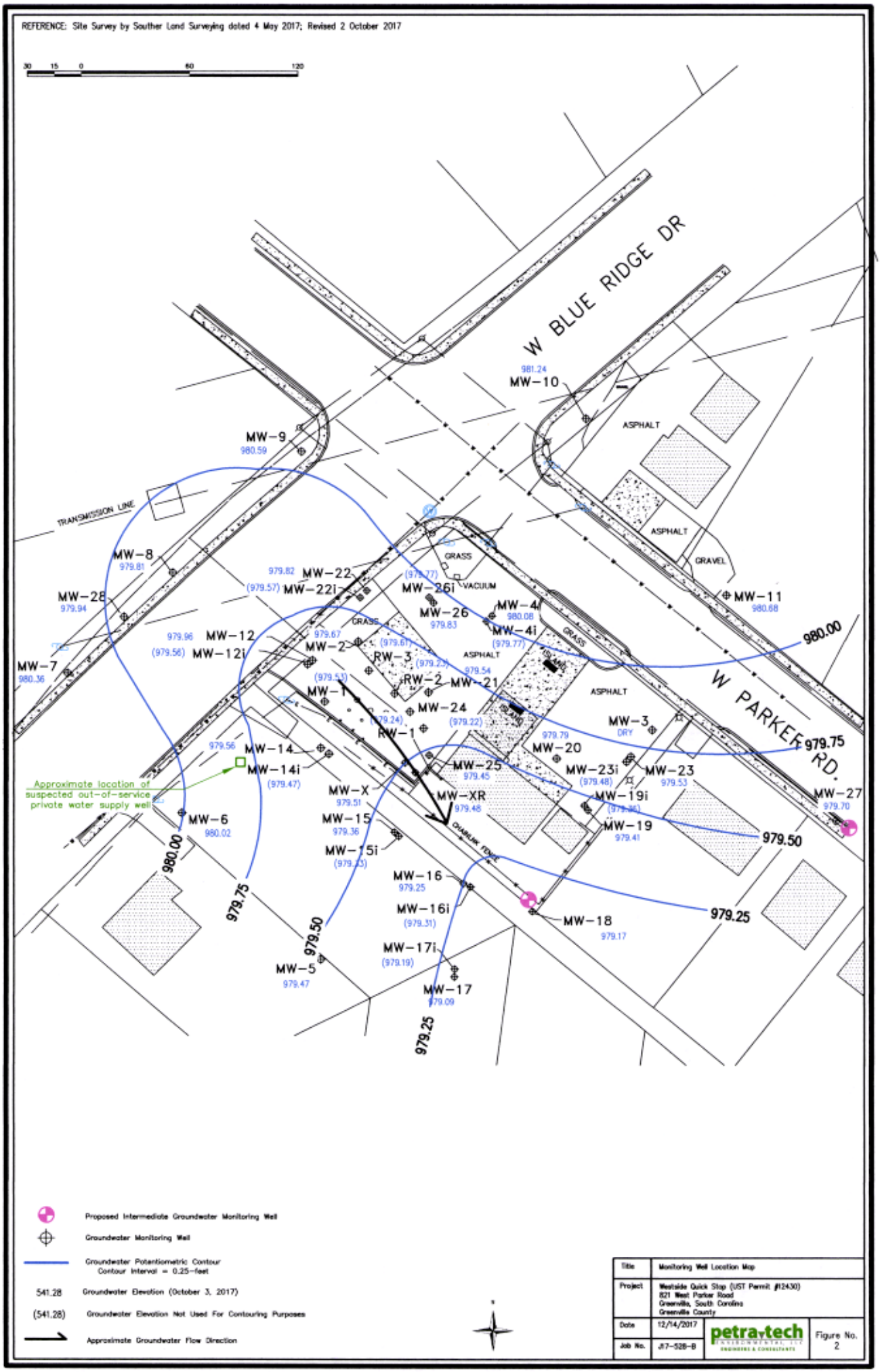
Ⓦ Private Water supply Well

N

Title	Site Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County
Date	12/14/2017
Job No.	J17-528-B

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 1


REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017
30 15 0 60 120
W BLUE RIDGE DR
W PARKER RD.
MW-10
981.24
MW-9
980.59
MW-8
979.81
MW-28
979.94
MW-7
980.36
MW-22
979.82
(979.57) MW-22i
MW-26i
(979.77)
MW-26
979.83
MW-4
980.08
MW-4i
(979.77)
MW-11
980.68
MW-12
979.96
(979.56) MW-12i
MW-2
979.67
(979.61)
RW-3
(979.23)
RW-2
MW-21
979.54
MW-1
(979.53)
MW-24
(979.22)
RW-1
(979.24)
MW-3
DRY
MW-20
979.79
MW-14
979.56
MW-14i
(979.47)
MW-25
979.45
MW-23i
(979.48)
MW-23
979.53
MW-X
979.51
MW-XR
979.48
MW-19i
(979.35)
MW-27
979.70
MW-6
980.02
MW-15
979.36
MW-15i
(979.33)
MW-19
979.41
MW-16
979.25
MW-16i
(979.31)
MW-18
979.17
MW-17i
(979.19)
MW-5
979.47
MW-17
979.09
980.00
979.75
979.50
979.25
GRASS
ASPHALT
GRAVEL
VACUUM
DRY
TRANSMISSION LINE
CHARLINE TRACE
Approximate location of suspected out-of-service private water supply well
Proposed Intermediate Groundwater Monitoring Well
Groundwater Monitoring Well
Groundwater Potentiometric Contour
Contour Interval = 0.25-feet
541.28 Groundwater Elevation (October 3, 2017)
(541.28) Groundwater Elevation Not Used For Contouring Purposes
Approximate Groundwater Flow Direction
Title Monitoring Well Location Map
Project Westside Quick Stop (UST Permit #12430)
821 West Parker Road
Greenville, South Carolina
Greenville County
Date 12/14/2017
Job No. 17-528-B
petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS
Figure No. 2

dhec
Healthy People. Healthy Communities

ASSESSMENT COMPONENT INVOICE
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 16, 2016

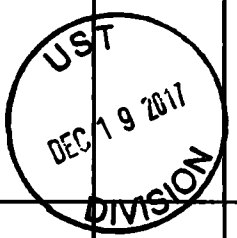
UST
DEC 19 2017
DIVISION

Facility Name: Westside Quick Stop

UST Permit #: 12430 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE	TOTAL
1. **Plan Preparation**				
A1. Site-specific Work Plan	1	each	$150.00	$150.00
B1. Tax Map		each	$70.00	$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00	$0.00
2. A1. **Receptor Survey** *		each	$551.00	$0.00
3. **Survey (500 ft x 500 ft)**				
A1. Comprehensive Survey		each	$1,040.00	$0.00
B. Subsurface Geophysical Survey				
1B. < 10 meters below grade		each	$1,300.00	$0.00
2B. > 10 meters below grade		each	$2,310.00	$0.00
C1. Geophysical UST or Drum Survey		each	$910.00	$0.00
4. **Mob/Demob**				
A1. Equipment	1	each	$1,020.00	$1,020.00
B1. Personnel	4	each	$423.00	$1,692.00
C1. Adverse Terrain Vehicle		each	$500.00	$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00	$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***				
AA. Standard		per foot	$15.00	$0.00
C1. Fractured Rock		per foot	$20.20	$0.00
7. A1. **Soil Leachability Model**		each	$60.00	$0.00
8. **Abandonment (per foot)***				
A1. 2" diameter or less		per foot	$3.10	$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50	$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00	$0.00
9. **Well Installation (per foot)***				
A1. Water Table (hand augered)		per foot	$10.60	$0.00
B1. Water Table (drill rig)	130	per foot	$38.00	$4,940.00
CC. Telescoping		per foot	$50.00	$0.00
DD. Rock Drilling		per foot	$58.00	$0.00
E1. 2" Rock Coring		per foot	$30.90	$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40	$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00	$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00	$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00	$0.00
K. Re-develop Existing Well		per foot	$11.00	$0.00

10. Groundwater Sample Collection / Gauge Depth to Water or Product *					
A1. Groundwater Purge	10	per well/receptor	$60.00		$600.00
B1. Air or Vapors		per receptor	$12.00		$0.00
C1. Water Supply	1	per well/receptor	$22.00		$22.00
D1. Groundwater (No Purge or Duplicate)	29	per well/receptor	$28.00		$812.00
E1. Gauge Well only	6	per well	$7.00		$42.00
F1. Sample Below Product		per well	$12.00		$0.00
G1. Passive Diffusion Bag		each	$26.00		$0.00
H1. Field Blank	4	each	$24.60		$98.40
11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(826	44	per sample	$122.00		$5,368.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	41	per sample	$45.20		$1,853.20
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)	4	per sample	$124.05		$496.20
M. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	$91.75		$367.00
N. EDB (504.1)	3	per sample	$79.50		$238.50
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. Free Product Recovery Rate Test*		each	$38.00		$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. Subsequent Survey*	1	each	$260.00		$260.00



17. Disposal (gallons or tons)*					
AA. Wastewater	150	gallon	$0.56		$84.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal	5	ton	$60.00		$300.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. Miscellaneous (attach receipts)					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. Tier I Assessment (Use DHEC 3665 form)		standard			$0.00
21. IGWA (Use DHEC 3666 form)		standard			$0.00
22. Corrective Action (Use DHEC 3667 form)		PFP Bid			$0.00
23. Aggressive Fluid & Vapor Recovery (AFVR)					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. Granulated Activated Carbon (GAC) filter system installation & service:					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. Well Repair					
A1. Additional Copies of the Report Delive	5	each	$50.00		$250.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$18,593.30		$2,231.20
TOTAL					$20,824.50

UST
DEC 19 2017
DIVISION

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

dhec
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MR MIKE WRIGHT
405 DOVE HILL CIRCLE
EASLEY SC 29640

Re: **Aggressive Fluid and Vapor Recovery Directive**
Westside Quick Stop, 821 West Parker Road, Greenville, SC
UST Permit # 12430, CA# 56214
Release #1 Reported June 7, 2012
Tier II Assessment Report received October 31, 2017
Greenville County

Dear Mr. Wright:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (Agency) recognizes your commitment to continue work at this site using Environmental Laboratories, Inc. Per the referenced report free product is present in MW-1 (5.03 feet), MW-24 (6.27 feet), RW-1 (6.09 feet), RW-2 (4.65 feet) and sheens noted in wells MW0X and MW0XR.

Per the Tier II Assessment, the groundwater plume is not yet defined to the east. Due to this new information, additional assessment is needed to complete the delineation of impacts at the site; therefore, approval of the additional assessment and groundwater sampling will be forthcoming for Release Two.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the UST Quality Assurance Program Plan (QAPP) Revision 3.1. **Please be aware that the AFVR Procedures have been updated.** Two 96-hour events are approved. Please utilize wells MW-0X, MW-24 and RW-01 for one event and wells MW-1, MW-24 and RW-02 for the other event to be performed. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 32 feet. Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted as needed to the appropriate interval to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of Agency QAPP Revision 3.1 for the Underground Storage Tank Division is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

As soon as the beginning date of the AFVR events have been scheduled, please contact Tom Knight at knightbt@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

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

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

On all correspondence regarding this site, please reference UST Permit #12430. If there are any questions concerning this project, please contact me at (803) 898-0601 or by email at knightbt@dhec.sc.gov.

Sincerely,

T Knight

Tom Knight, P.G., Hydrogeologist
Assessment & Unregulated Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical file

Approved Cost Agreement 56214

Facility: 12430 WESTSIDE QUICK STOP
KNIGHTBT
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$38,681.250	4,641.75
23 EFR					
		A4 96 HOUR EVENT	2.0000	$12,567.500	25,135.00
		C4 OFF GAS TREATMENT 96 HOUR	2.0000	$780.000	1,560.00
		D SITE RECONNAISSANCE	1.0000	$203.250	203.25
		F1 EFFLUENT DISPOSAL	25,000.0000	$0.440	11,000.00
		G AFVR EQUIPMENT MOB	2.0000	$391.500	783.00
				Total Amount	43,323.00

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FEB 14 2018

SHREE GAJVAKRA LLC
ATTN: ANKUR PATEL
205 FAIRWAY DRIVE
LAURENS SOUTH CAROLINA 29360-7700



Re: **Letter of Concern**
Westside Quick Stop, 821 West Parker Road, Greenville, SC
UST Permit # 12430,
Greenville County

Dear Mr. Patel:

You requested that this office provide you with an update on the environmental conditions at the above referenced facility.

Our records revealed that three USTs owned by Shree Gajvakra LLC are currently in use and one tank is extended out of service. The tanks were last inspected August 29, and September 13, 2017.

On June 7, 2012, we received a report documenting subsurface contamination in the vicinity of the USTs. In response to the initial report of contamination, DHEC directed Westside Quick Stop Inc., the tank owner at the time of the release and the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. The next scope of work is an Aggressive Fluid Vapor Recovery event.

On October 23, 2012, we received a report documenting subsurface contamination in the vicinity of the USTs. In response to the initial report of contamination, we directed Shree Gajvakra LLC, the tank owner at the time of the release and the party responsible for performing this activity under state and federal law, to assess the extent and severity of the contamination. The next scope of work is a Groundwater Assessment with a comprehensive groundwater sampling.

The UST Management Division would also like to clarify for you the financial and liability issues surrounding the petroleum contamination at this facility. The release of petroleum products from the UST are qualified to receive funding from the State Underground Petroleum Environmental Response Bank (SUPERB) Account. This means that reasonable costs to up to $1,000,000 can be paid by the SUPERB Account for site rehabilitation actions associated for each release. Please note that both releases have meet the $25,000 deductable.

In 1997, the General Assembly amended Section 80 (B) of the SUPERB Act to clarify that persons who hold "indicia of ownership" primarily to protect a security interest in property impacted by a release from a UST are exempt from the requirements to conduct site rehabilitation activities other than necessary abatement actions to eliminate any imminent threat to human health or the environment. The "indicia of ownership" exemption includes those persons who acquire title to property through foreclosure or other means necessary to protect their security interest, provided that person does not participate in the management of the UST and is not otherwise engaged in petroleum production, marketing, or refining. This applies equally to subsequent lenders who acquire the USTs and property through foreclosure in the future.

The UST Management Division is not aware of any laws or regulations that prohibit the use or development of properties where a petroleum release has occurred. Any future work required by the Agency should not cause any damage to the building, disrupt deliveries, prevent access to customers, or block main access routes. To further assure you, any required activities associated with the petroleum release would be performed by a SC Certified Site Rehabilitation Contractor who maintains specific levels of insurance coverage for General and Professional Liability and Pollution/Property Damage. Such coverage is required by Section IV of the SUPERB Site Rehabilitation and Fund Access Regulations R. 61-98.

If there are any questions concerning this project, please contact me at (803) 898-0601 or by email at knightbt@dhec.sc.gov.

Sincerely,

Tom Knight, P.G., Hydrogeologist
Assessment & Unregulated Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Technical file

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FEB 2 2 2018

SHREE GAJVAKRA LLC
ATTN: ANKUR PATEL
205 FAIRWAY DRIVE
LAURENS SOUTH CAROLINA 29360-7700

Re: **Groundwater Sampling and Additional Assessment Directive**
Westside Quick Stop, 821 West Parker Road, Greenville, SC
UST Permit # 12430, CA#55855, UMW#26873
Release #2 Reported October 23, 2012
SSWP Received December 19, 2017
Greenville County

Dear Mr. Patel:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site-Specific Work Plan (SSWP) submitted by Petra-tech Environmental LLC on behalf of Environmental Laboratories Incorporated. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), Environmental Laboratories approved SSWP and Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The groundwater sampling event should begin immediately upon receipt of this letter. Cost agreement # 55855 has been approved for the amount shown on the enclosed cost agreement form. Please note the following changes to the cost agreement and SSWP:

- Item 12B1 – 2 slug tests have been added to the cost agreement. Please conduct slug tests in the two new wells.
- Item 11AA1 - Analyses for filtered lead have been added to the cost agreement. Please sample wells MW-2, MW-6, MW-10, MW-11 and MW-OXR for filtered lead.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within ninety (90) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Environmental Laboratories Inc can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by R.61-98.

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

On all correspondence concerning this site, please reference UST Permit # 12430. If there are any questions concerning this project, please contact me at (803) 898-0601 or by email at knightbt@dhec.sc.gov.

Sincerely,

Tom Knight, P.G., Hydrogeologist
Assessment Section
UST Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)
Monitoring Well Approval (MWA)

cc: Environmental Laboratories, Inc., 2121 Roe Ford Rd., Greenville, SC 29617 (w/ enc)
Petra-Tech Environmental LLC, 2435 E. North Street, Ste 1108-202, Greenville, SC 29615 (w/enc)
Technical File (w/ enc)

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Monitoring Well Approval Form

Approval is hereby granted to: Environmental Laboratories Inc.
(on behalf of): Shree Gajvakra LLC
Facility: Westside Quick Stop, 821 West Parker Rd, Greenville, SC
UST Permit Number: 12430
County: Greenville

This approval is for the installation of two (2) transition zone monitoring wells. The monitoring wells are to be installed in the approved locations. The monitoring wells are to be installed following the South Carolina Well Standards, R.61-71, and the applicable guidance documents.

Please note that R.61-71 requires the following:

1. All wells shall be drilled, constructed, and abandoned by a South Carolina certified well driller per R.61-71.D.1.
2. All monitoring wells shall be labeled as required by R.61-71.H.2.c.
3. A Water Well Record Form or other form provided or approved by DHEC shall be completed and submitted to DHEC within 30 days after well completion or abandonment unless another schedule has been approved by DHEC. The form should contain the "as-built" construction details and all other information required by R.61-71.H.1.f
4. All analytical data and water levels obtained from each monitoring well shall be submitted to DHEC within 30 days of receipt of laboratory results unless another schedule has been approved by DHEC as required by R.61-71.H.1.d.
5. If any of the information provided to DHEC changes, notification to Tom Knight (tel: (803) 898-0601 or e-mail: knightbt@dhec.sc.gov) shall be provided a minimum of twenty-four (24) hours prior to well construction as required by R.61-71.H.1.a.
6. All temporary monitoring wells shall be abandoned within 5 days of borehole completion using appropriate methods as required by R.61-71.H.4.c. All other wells shall be properly developed per R.61-71.H.2.d.
7. Agency approval is required prior to abandonment of all monitoring wells as required by R.61-71.H.1.a.

This approval is pursuant to the provisions of Section 44-55-40 of the 1976 South Carolina Code of Laws and R.61-71 of the South Carolina Well Standards and Regulations, dated May 27, 2016. A copy of this approval should be on the site during well installation.

Date of Issuance: February 8, 2018 **Approval #: UMW-26873**

Tom Knight, P.G., Hydrogeologist
Assessment & Unregulated Petroleum Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Approved Cost Agreement 55855

Facility: 12430 WESTSIDE QUICK STOP
KNIGHTBT
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	1.0000	$150.000	150.00
04 MOB/DEMOB					
		A1 EQUIPMENT	1.0000	$1,020.000	1,020.00
		B1 PERSONNEL	4.0000	$423.000	1,692.00
09 WELL INSTALLATION					
		B1 WATER TABLE (DRILL RIG)	130.0000	$38.000	4,940.00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	10.0000	$60.000	600.00
		C1 WATER SUPPLY	1.0000	$22.000	22.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	29.0000	$28.000	812.00
		E1 GAUGE WELL ONLY	6.0000	$7.000	42.00
		H1 FIELD BLANK	4.0000	$24.600	98.40
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	44.0000	$122.000	5,368.00
		AA1 FILTERED LEAD	6.0000	$13.800	82.80
		F1 EDB BY 8011	41.0000	$45.200	1,853.20
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	4.0000	$124.050	496.20
		M 7-OXYGENATES & ETHANOL (8260B)	4.0000	$91.750	367.00
		N EDB (504.1)	3.0000	$79.500	238.50
12 AQUIFER CHARACTERIZATION					
		B1 SLUG TEST	2.0000	$191.000	382.00
16 SUBSEQUENT SURVEY					
		A1 SUBSEQUENT SURVEY	1.0000	$260.000	260.00
17 DISPOSAL					
		AA WASTEWATER	150.0000	$0.560	84.00
		C1 SOIL TREATMENT DISPOSAL	5.0000	$60.000	300.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$19,058.100	2,286.97
25 WELL REPAIR					
		A1 ADDITIONAL COPIES OF REPORT	5.0000	$50.000	250.00
				Total Amount	21,345.07

Document Receipt Information

☐ **Hard Copy** ☑ **CD** ☐ **Email**

Date Received 6-4-18

Permit Number 13430

Project Manager Tom Knight

Name of Contractor Petro-Tech

UST Certification Number _____

Docket Number _____

Scanned 3 Tech

AFVR/MMPE updt

REPORT OF LONG-TERM AFVR/MMPE EVENTS

Westside Quick Stop
SCDHEC UST Permit #12430
821 West Parker Road
Greenville, South Carolina
Greenville County

Cost Agreement #56214

PTE Job No. J18-595-A

May 28, 2018

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

SCDHEC Certified UST Contractor No. 436

Petra-Tech Environmental
2435 East North Street
Suite 1108-202
Greenville, SC 29615

www.petratechenv.com

May 28, 2018

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

Attention: Mr. Tom Knight, P.G.
Hydrogeologist

Subject: **Report of Long-Term AFVR/MMPE Events**
Westside Quick stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430; CA#56214
PTE Job No. J18-595-A

Dear Mr. Knight:

Pursuant to the South Carolina Department of Health and Environmental Control's directive letter (cost agreement #56214), Petra-Tech Environmental, LLC submits herein the results of two 96-hour long-term AFVR/MMPE events performed at the Westside Quick Stop site. This report is being submitted on behalf of Mr. Mike Wright and Environmental Laboratories, Inc.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565



1.0 PROJECT INFORMATION

The subject property is located at 821 West Parker Road in Greenville, Greenville County, South Carolina (**Figure 1**) and currently operates as a retail petroleum fueling station and convenience store. According to the South Carolina Department of Health and Environmental Control Online Underground Storage Tank Registry database, three underground storage tanks (one 1,000-gallon kerosene and two 6,000-gallon regular gasoline) are currently in use at the site. Additionally, a 4,000-gallon super/premium gasoline underground storage tank is located at the site and is currently classified as extended-out-of-use. Two separate releases have been reported at the site.

The South Carolina Department of Health and Environmental Control issued an Aggressive Fluid Vapor Recovery directive letter for the subject site requiring the completion of two 96-hour long term AFVR/MMPE events – with one extraction event utilizing wells 12430-MW01, 12430-MW24, and 12430-RW02; and the other extraction event utilizing wells 12430-MW0X, 12430-MW-24, and 12430-RW01. The results of the long-term AFVR/MMPE event are included herein.

2.0 LONG-TERM AFVR/MMPE EVENT SUMMARY – 12430-MW0X, 12430-MW24, & 12430-RW01

A 96-hour long-term AFVR / MMPE event was completed at the subject site between Monday, May 14, 2018 and Friday, May 18, 2018. The 96-hour event was conducted on monitoring wells 12430-MW0X and 12430-MW24, and on recovery well 12430-RW01 (**Figure 2**). A geologist was on-site for initial event setup, and periodic observation and monitoring of the event throughout the week, and a field technician remained on-site throughout the event for monitoring and data collection. The long-term AFVR/MMPE event was performed using a Vermeer Ring-O-Matic 850 Super Deep Vacuum Unit equipped with a 28 horsepower diesel engine and Masport HXL15V vacuum pump with 27-inches of mercury and 350 cubic feet per minute vacuum capabilities.

Prior to initiating the event, Petra-Tech Environmental staff gauged the wells using a Solinst® Interface Meter. 4.11-feet of free-phase petroleum product was detected in groundwater monitoring well 12430-MW24 and 4.59-feet of free-phase petroleum product was detected in groundwater recovery well 12430-RW01 prior to the AFVR event. Free-phase petroleum product was not detected in groundwater monitoring well 12430-MW0X prior to the AFVR event. The long-term AFVR/MMPE event was initiated at 1500 on Monday, May 14, 2018 and concluded at 1500 on Friday, May 18, 2017. The general weather conditions observed during this period of time were variable; with daily high temperatures ranging from 79º to 91º Fahrenheit and low temperatures ranging from 69º to 71º Fahrenheit. Average daily wind speeds throughout the course of the event ranged from 3 to 8 miles per hour. 0.19-inches of rainfall was recorded on May 15, 2018; 1.13-inches of rainfall was recorded on May 16, 2018; 0.01-inches of rainfall was recorded on May 17, 2018, and 0.26-inches of rainfall was recorded on May 18, 2018.

Throughout the duration of the event, a continuous vacuum ranging from 20.0 to 25.0 inches of mercury was applied to monitoring wells 12430-MW0X and 12430-MW24, and on recovery well 12430-RW01. The extraction stinger was lowered at 6-inch intervals in the wells from the free-phase product / water table interface to a target depth of 32 feet below ground surface (or approximately 6-inches above the bottom of each well for those wells less than 32 feet deep) within the first 8-hours of the event. Stinger depths were varied thereafter to maximize free-phase petroleum product and vapor recovery based on conditions observed in the field. Vacuum and field measurements recorded throughout the event are summarized in **Attachment A**. The vacuum in addition to depth-to-water was also measured in adjacent monitoring wells 12430-MW0XR and 12430-MW25 using magnahelic gauges and an interface probe to evaluate the

vacuum's radius of influence. Radius of influence gauging data observed during the event is summarized in **Attachment A**.

Due to the close proximity of the site to places of public business, volatile air emissions were treated on-site utilizing a granulated activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured throughout the event using a MiniRAE® Lite 3000 Photo Ionization Detector (PID). Air emissions pre-treatment and post-treatment concentrations are summarized in **Attachment A**.

3.0 LONG-TERM AFVR/MMPE EVENT SUMMARY – 12430-MW01, 12430-MW24, & 12430-RW02

A 96-hour long-term AFVR/MMPE event was completed at the subject site between Friday, May 18, 2017 and Tuesday, May 22, 2018. The 96-hour event was conducted on monitoring wells 12430-MW01 and 12430-MW24, and on recovery well 12430-RW02 (**Figure 2**). A geologist was on-site for initial event setup, and periodic observation and monitoring of the event throughout the week, and a field technician remained on-site throughout the event for monitoring and data collection. The long-term AFVR/MMPE event was performed using a Vermeer Ring-O-Matic 850 Super Deep Vacuum Unit equipped with a 28 horsepower diesel engine and Masport HXL15V vacuum pump with 27-inches of mercury and 350 cubic feet per minute vacuum capabilities.

Prior to initiating the event, Petra-Tech Environmental staff gauged the wells using a Solinst® Interface Meter. 4.25-feet of free-phase petroleum product was detected in groundwater monitoring well 12430-MW01, 1.72-feet of free-phase petroleum product was detected in groundwater monitoring well 12430-MW24, and 3.80-feet of free-phase petroleum product was detected in groundwater recovery well 12430-RW02 prior to the AFVR event. The long-term AFVR/MMPE event was initiated at 1600 on Friday, May 18, 2018 and concluded at 1600 on Tuesday, May 22, 2018. The general weather conditions observed during this period of time were variable; with daily high temperatures ranging from 82º to 87º Fahrenheit and low temperatures ranging from 66º to 71º Fahrenheit. Average daily wind speeds throughout the course of the event ranged from 4 to 6 miles per hour. 0.26-inches of rainfall was recorded on May 18, 2018; 0.24-inches of rainfall was recorded on May 19, 2018; 1.75-inches of rainfall was recorded on May 20, 2018; and 0.04-inches of rainfall was recorded on May 22, 2018.

Throughout the duration of the event, a continuous vacuum ranging from 21.0 to 25.0 inches of mercury was applied to monitoring wells 12430-MW01 and 12430-MW24, and recovery well 12430-RW02. The extraction stinger was lowered at 6-inch intervals in the wells from the free-phase product / water table interface to a target depth of 32 feet below ground surface (or approximately 6-inches above the bottom of each well for those wells less than 32 feet deep) within the first 8-hours of the event. Stinger depths were varied thereafter to maximize free-phase petroleum product and vapor recovery based on conditions observed in the field. Vacuum and field measurements recorded throughout the event are summarized in **Attachment B**. The vacuum along with depth-to-water was also measured in adjacent monitoring wells 12430-MW02 and 12430-MW25 using magnahelic gauges and an interface probe to evaluate the radius of influence. Radius of influence gauging data observed during the event is summarized in **Attachment B**.

Due to the close proximity of the site to places of public business, volatile air emissions were treated on-site utilizing a granulated activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured throughout the event using a MiniRAE® Lite 3000 Photo Ionization Detector (PID). Air emissions pre-treatment and post-treatment concentrations are summarized in **Attachment B**.

4.0 RESULTS & RECOMMENDATIONS

A total volume of approximately 1,368 gallons of petroleum impacted liquid was recovered from the site during the 96-hour event conducted on groundwater monitoring wells 12430-MW0X and 12430-MW24, and on recovery well 12430-RW01. Of this amount, approximately 65 gallons was gauged as separated phase petroleum product. A total volume of approximately 1,655 gallons of petroleum impacted liquid was recovered from the site during the 96-hour event conducted on groundwater monitoring wells monitoring wells 12430-MW01 and 12430-MW24, and on recovery well 12430-RW02. Of this amount, approximately 45 gallons was gauged as separated phase petroleum product. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the events are provided in **Attachment C**.

A total of approximately 147.5 pounds of gasoline vapor which is equivalent to approximately 23.60 gallons of gasoline were calculated to have been recovered during the 96-hour long term AFVR/MMPE event on monitoring wells 12430-MW0X and 12430-MW24, and on recovery well 12430-RW01; and a total of approximately 142.7 pounds of gasoline vapor which is equivalent to approximately 22.83 gallons of gasoline were calculated to have been recovered during the 96-hour long term AFVR/MMPE event on groundwater monitoring wells 12430-MW01 and 12430-MW24, and on recovery well 12430-RW02. The emissions calculations for the event are provided as **Attachments A and B**.

Based on the results of the current scope of work, the 96-Hour Aggressive Fluid Vapor Recovery events were effective in removing petroleum product as both free-phase and vapor phase, and serve as a critical remedial measure in the removal of free-product at the site. Petra-Tech Environmental recommends a series of two additional 96-hour AFVR events at the site to continue free-phase petroleum product removal.

FIGURES



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

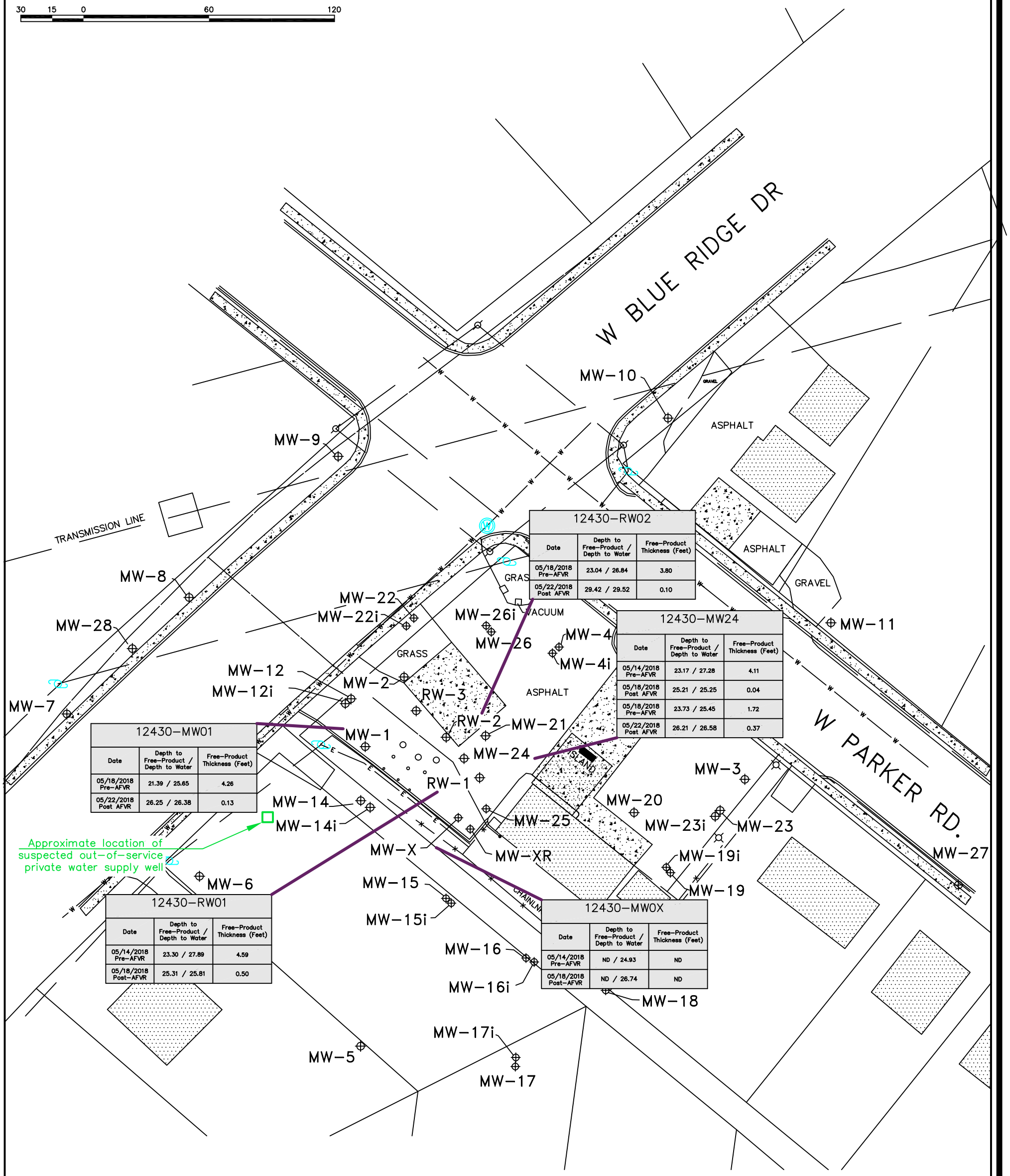
N

SITE

Title	Site Location Map		
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County		
Date	07/01/2016	petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 1
Job No.	J16-232-A		

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120



12430-RW02		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/18/2018 Pre-AFVR	23.04 / 26.84	3.80
05/22/2018 Post AFVR	29.42 / 29.52	0.10

12430-MW24		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/14/2018 Pre-AFVR	23.17 / 27.28	4.11
05/18/2018 Post AFVR	25.21 / 25.25	0.04
05/18/2018 Pre-AFVR	23.73 / 25.45	1.72
05/22/2018 Post AFVR	26.21 / 26.58	0.37

12430-MW01		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/18/2018 Pre-AFVR	21.39 / 25.65	4.26
05/22/2018 Post AFVR	26.25 / 26.38	0.13

12430-RW01		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/14/2018 Pre-AFVR	23.30 / 27.89	4.59
05/18/2018 Post-AFVR	25.31 / 25.81	0.50

12430-MW0X		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/14/2018 Pre-AFVR	ND / 24.93	ND
05/18/2018 Post-AFVR	ND / 26.74	ND

Groundwater Monitoring Well

Title	Well Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	05/28/2018
Job No.	J18-595-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2

WESTSIDE QUICK STOP – UST PERMIT #12430
LONG-TERM AFVR/MMPE EVENT

ATTACHMENT A

AFVR / MMPE Field Measurements & Emissions Calculations

Westside Quickstop - UST Permit #12430

12430-MW0X, 12430-MW24, & 12430-RW01

		Extraction Wells						Radius of Influence Monitoring				Emissions Field Measurements								Emission Calculations								
		12430-MW0X		12430-MW24		12430-RW01		12430-MW0XR		12430-MW25		System Vacuum	Effluent Velocity	Pipe Diameter	Effluent Temp.	Relative Humidity	Vapor Conc. Pre-Treatment	Vapor Conc. Post Treatment	Elapsed Time	Q_{std}	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Vacuum (in. H2O)	DTW (ft BTOC)	Vacuum (in. H2O)	DTW (ft BTOC)	(in. HG)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(hours)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
5/14/2018	1500	25.0	20.5	27.0	21.5	28.0	22.5	0.5	23.05	0.5	25.09	25.0	1,777	2	181.70	24.7	5,000.0	16.1	0.0	27.88	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.1924	1.3800	0.2208
	1530	25.5	20.5	27.0	21.5	28.0	23.0	0.5	25.30	0.0	25.24	24.0	1,851	2	191.00	20.2	5,000.0	7.2	0.5	28.63	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.2243	1.4169	0.2267
	1600	26.0	20.5	27.5	21.5	28.0	23.0	0.5	25.49	0.0	25.39	24.0	2,107	2	188.40	20.7	5,000.0	9.8	1.0	32.72	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3992	1.6193	0.2591
	1630	26.5	20.5	27.5	22.0	28.0	22.5	0.5	25.59	0.5	25.50	24.0	2,172	2	172.30	21.0	5,000.0	24.7	1.5	34.58	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4791	1.7118	0.2739
	1700	27.0	20.5	28.0	21.5	28.5	22.0	0.0	25.66	0.0	25.56	24.0	2,096	2	174.80	21.5	5,000.0	16.8	2.0	33.24	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4217	1.6454	0.2633
	1730	27.5	20.5	28.0	21.0	28.5	22.0	0.0	25.74	0.0	25.62	24.0	1,847	2	184.90	21.0	5,000.0	24.8	2.5	28.83	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.2332	1.4272	0.2284
	1800	28.0	20.5	28.5	21.5	28.5	21.5	0.0	25.78	0.0	25.65	24.0	1,906	2	187.60	18.9	5,000.0	18.1	3.0	29.63	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.2673	1.4666	0.2347
	1830	28.5	20.5	28.5	21.0	29.0	21.0	0.5	25.81	0.0	25.68	24.0	1,876	2	194.80	16.6	5,000.0	23.2	3.5	28.84	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.2336	1.4277	0.2284
	1900	29.0	20.5	29.0	20.5	29.0	21.0	0.0	25.84	0.0	25.70	24.0	2,092	2	189.60	19.9	5,000.0	17.6	4.0	32.42	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3867	1.6048	0.2568
	1930	29.5	20.5	29.0	21.0	29.0	21.5	0.0	25.87	0.0	25.73	24.0	2,176	2	174.60	20.4	5,000.0	19.5	4.5	34.52	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4765	1.7087	0.2734
	2000	29.5	20.5	29.5	21.0	29.5	21.5	0.0	25.90	0.0	25.75	24.0	2,048	2	175.80	21.2	5,000.0	15.4	5.0	32.43	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3870	1.6052	0.2568
	2030	29.5	20.5	29.5	20.5	29.5	21.5	0.5	25.92	0.0	25.77	23.0	2,092	2	172.60	22.8	5,000.0	20.6	5.5	33.29	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4240	1.6479	0.2637
	2100	29.5	20.5	30.0	21.0	30.0	21.0	0.0	25.93	0.0	25.79	24.0	2,148	2	170.60	24.0	5,000.0	13.8	6.0	34.29	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4667	1.6974	0.2716
	2130	29.5	20.0	30.5	21.5	30.5	21.5	0.0	25.94	0.0	25.80	24.0	2,063	2	173.60	23.6	5,000.0	10.9	6.5	32.78	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4020	1.6225	0.2596
	2200	29.5	20.5	31.0	21.0	31.0	21.0	0.0	25.94	0.0	25.81	24.0	2,089	2	171.80	23.4	5,000.0	12.2	7.0	33.29	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4237	1.6477	0.2636
	2230	29.5	20.5	31.5	21.0	31.5	21.5	0.0	25.95	0.0	25.81	24.0	1,986	2	169.90	23.8	5,000.0	18.4	7.5	31.74	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3576	1.5712	0.2514
	2300	29.5	20.5	32.0	20.5	32.0	21.5	0.5	25.95	0.5	25.82	24.0	2,002	2	170.20	24.1	5,000.0	23.8	8.0	31.98	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3679	1.5831	0.2533
	2330	29.5	20.5	32.0	21.0	32.0	21.5	0.0	25.96	0.0	25.82	24.0	2,136	2	176.30	25.3	5,000.0	16.5	8.5	33.80	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4454	1.6728	0.2677
	2400	29.5	20.5	32.0	21.0	32.0	21.0	0.0	25.96	0.0	25.82	24.0	2,547	2	175.20	26.7	5,000.0	13.2	9.0	40.37	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.7266	1.9982	0.3197
No readings recorded between 2400 and 0800																												
5/15/2018	0800	27.0	21.0	30.0	19.5	30.0	21.0	0.0	26.05	0.0	25.89	23.0	2,106	2	180.40	24.6	5,000.0	22.7	17.0	33.11	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4160	1.6388	0.2622
	0900	27.0	20.5	30.0	19.5	30.0	21.5	0.0	26.05	0.0	25.90	23.0	2,049	2	181.80	23.9	5,000.0	12.9	18.0	32.14	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3747	1.5909	0.2545
	1000	27.0	20.5	30.0	19.5	30.0	21.0	0.0	26.06	0.0	25.91	23.0	2,182	2	184.60	21.8	5,000.0	18.3	19.0	34.08	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4576	1.6868	0.2699
	1100	27.0	20.5	30.0	19.5	30.0	21.0	0.0	26.06	0.0	25.91	23.0	2,206	2	180.70	20.4	5,000.0	26.2	20.0	34.66	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4826	1.7158	0.2745
	1200	27.0	21.0	30.0	19.0	30.0	20.5	0.0	26.06	0.0	25.92	23.0	2,196	2	183.10	22.8	5,000.0	20.9	21.0	34.38	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4703	1.7016	0.2723
	1300	27.0	21.0	30.0	19.5	30.0	20.5	0.0	26.07	0.0	25.92	23.0	2,148	2	172.30	20.7	4,625.0	24.8	22.0	34.20	5,291.71	21,166.83	4	10,561.43	6.59E-04	1.3531	1.5659	0.2505
	1400	27.0	21.0	30.0	19.0	30.0	20.0	0.0	26.07	0.0	25.93	23.0	2,182	2	161.20	21.4	4,832.0	18.2	23.0	35.36	5,528.55	22,114.19	4	11,034.13	6.89E-04	1.4616	1.6916	0.2707
	1500	27.0	21.0	30.0	19.5	30.0	20.0	0.0	26.06	0.0	25.90	23.0	2,064	2	182.60	20.5	3,259.0	27.8	24.0	32.34	3,728.80	14,915.18	4	7,442.10	4.65E-04	0.9015	1.0433	0.1669
	1600	27.0	21.0	30.0	19.0	30.0	20.0	0.0	26.04	0.0	25.88	23.0	2,101	2	196.40	19.6	3,694.0	22.9	25.0	32.23	4,226.50	16,906.01	4	8,435.44	5.27E-04	1.0182	1.1784	0.1885
	1700	27.0	20.0	30.0	18.0	30.0	20.0	0.0	26.06	0.0	25.91	20.0	2,119	2	184.70	26.1	3,694.0	10.3	26.0	33.09	4,226.50	16,906.01	4	8,435.44	5.27E-04	1.0456	1.2101	0.1936
	1800	27.0	20.0	30.0	19.0	30.0	18.0	0.0	26.08	0.0	25.91	21.0	2,036	2	177.50	24.9	3,945.0	18.4	27.0	32.15	4,513.68	18,054.74	4	9,008.62	5.62E-04	1.0850	1.2557	0.2009
	1900	27.0	21.0	30.0	19.0	30.0	20.0	0.0	26.08	0.0	25.91	23.0	2,124	2	162.50	31.0	4,786.0	25.1	28.0	34.35	5,475.92	21,903.67	4	10,929.08	6.82E-04	1.4063	1.6275	0.2604
	2000	27.0	21.0	30.0	19.0	30.0	20.0	0.0	26.09	0.0	25.89	23.0	1,988	2	159.10	33.4	4,965.0	23.6	29.0	32.33	5,680.72	22,722.88	4	11,337.84	7.08E-04	1.3730	1.5890	0.2542
	2100	27.0	20.0	30.0	19.0	30.0	20.0	0.0	26.06	0.0	25.90	23.0	2,017	2	157.80	28.4	4,625.0	22.8	30.0	32.87	5,291.71	21,166.83	4	10,561.43	6.59E-04	1.3004	1.5049	0.2408
	2200	27.0	20.0	30.0	19.0	30.0	21.0	0.0	26.04	0.0	25.92	23.0	2,240	2	165.30	26.5	4,853.0	25.0	31.0	36.07	5,552.58	22,210.30	4	11,082.08	6.92E-04	1.4971	1.7326	0.2772
	2300	27.0	21.0	30.0	18.0	30.0	21.0	0.0	26.05	0.0	25.89	23.0	2,153	2	160.60	31.3	4,625.0	23.5	32.0	34.93	5,291.71	21,166.83	4	10,561.43	6.59E-04	1.3818	1.5991	0.2559
	2400	27.0	21.0	30.0	19.0	30.0	20.0	0.0	26.04	0.0	25.88	23.0	1,819	2	153.50	34.3	4,685.0	23.2	33.0	29.85	5,360.36	21,441.43	4	10,698.44	6.68E-04	1.1962	1.3844	0.2215
No readings recorded between 2400 and 0800																												

Date	Time	12430-MW0X Stinger Depth (feet)	12430-MW0X Vacuum (in. HG)	12430-MW24 Stinger Depth (feet)	12430-MW24 Vacuum (in. HG)	12430-RW01 Stinger Depth (feet)	12430-RW01 Vacuum (in. HG)	12430-MW0XR Vacuum (in. H2O)	12430-MW0XR DTW (ft BTOC)	12430-MW25 Vacuum (in. H2O)	12430-MW25 DTW (ft BTOC)	System Vacuum (in. HG)	Effluent Velocity (ft/min)	Pipe Diameter (in)	Effluent Temp. (F)	Relative Humidity (%)	Vapor Conc. Pre-Treatment (ppm)	Vapor Conc. Post Treatment (ppm)	Elapsed Time (hours)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
5/16/2018	0800	28.0	19.0	31.0	17.0	31.0	17.0	0.0	25.96	0.0	25.80	20.0	2,062	2	147.80	29.3	5,000.0	18.2	41.0	34.16	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4608	1.6906	0.2705
	1000	28.0	19.0	31.0	17.5	31.0	17.5	0.0	25.98	0.0	25.82	21.0	2,106	2	151.80	24.8	5,000.0	22.9	43.0	34.66	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4822	1.7154	0.2745
	1200	28.0	19.5	31.0	17.0	31.0	17.5	0.0	25.99	0.0	25.83	21.0	2,148	2	153.30	21.0	5,000.0	16.8	45.0	35.26	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.5081	1.7453	0.2792
	1400	28.0	19.5	31.0	17.5	31.0	18.0	0.0	26.00	0.0	25.83	21.0	2,041	2	157.60	23.7	5,000.0	18.9	47.0	33.27	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4230	1.6468	0.2635
	1600	28.0	21.0	31.0	19.0	31.0	20.0	0.0	26.00	0.0	25.82	22.0	1,793	2	165.70	29.1	5,000.0	20.1	49.0	28.85	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.2339	1.4280	0.2285
	1800	28.0	21.0	31.0	19.5	31.0	20.0	0.0	26.00	0.0	25.83	22.0	1,585	2	159.00	32.5	4,965.0	23.4	51.0	25.78	5,680.72	22,722.88	4	11,337.84	7.08E-04	1.0948	1.2671	0.2027
	2000	28.0	21.0	31.0	19.0	31.0	20.0	0.0	26.01	0.0	25.82	23.0	1,644	2	157.20	28.0	4,258.0	29.7	53.0	26.82	4,871.80	19,487.22	4	9,723.37	6.07E-04	0.9767	1.1304	0.1809
	2200	28.0	20.5	31.0	19.5	31.0	20.0	0.0	26.01	0.0	25.83	23.0	2,027	2	152.50	31.2	4,362.0	38.8	55.0	33.32	4,990.80	19,963.18	4	9,960.86	6.22E-04	1.2432	1.4387	0.2302
	2400	28.0	21.0	31.0	19.5	31.0	20.0	0.0	26.01	0.0	25.83	23.0	1,984	2	179.10	33.6	4,258.0	36.0	57.0	31.25	4,871.80	19,487.22	4	9,723.37	6.07E-04	1.1383	1.3174	0.2108
No readings recorded between 2400 and 0800																												
5/17/2018	0800	29.5	20.5	32.0	19.0	32.0	19.5	0.0	26.02	0.0	25.84	22.0	2,048	2	172.40	20.6	5,000.0	22.9	65.0	32.60	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3944	1.6138	0.2582
	1000	29.5	20.5	32.0	19.0	32.0	20.5	0.0	26.03	0.0	25.85	22.0	2,104	2	174.80	20.1	5,000.0	16.9	67.0	33.37	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4272	1.6517	0.2643
	1200	29.5	20.0	32.0	20.0	32.0	21.0	0.0	26.04	0.0	25.85	22.0	2,031	2	176.30	20.0	5,000.0	31.8	69.0	32.14	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3744	1.5906	0.2545
	1400	29.5	20.0	32.0	20.0	32.0	20.5	0.0	26.04	0.0	25.83	22.0	2,201	2	179.20	19.7	5,000.0	26.2	71.0	34.67	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.4827	1.7159	0.2745
	1600	29.5	20.0	32.0	21.0	32.0	20.5	0.0	26.00	0.0	25.80	22.0	2,048	2	181.40	19.3	5,000.0	18.3	73.0	32.15	5,720.77	22,883.06	4	11,417.76	7.13E-04	1.3749	1.5911	0.2546
	1800	29.5	20.0	32.0	21.0	32.0	20.0	0.0	26.02	0.0	25.81	22.0	2,109	2	185.70	21.7	3,625.0	23.1	75.0	32.88	4,147.56	16,590.22	4	8,277.88	5.17E-04	1.0196	1.1800	0.1888
	2000	29.5	25.5	32.0	20.0	32.0	20.0	0.0	26.02	0.0	25.83	22.0	2,211	2	170.20	26.5	4,863.0	28.9	77.0	35.32	5,564.02	22,256.07	4	11,104.92	6.93E-04	1.4693	1.7004	0.2721
	2200	29.5	25.5	32.0	20.0	32.0	20.5	0.0	26.04	0.0	25.84	22.0	2,093	2	173.60	28.0	3,854.0	29.0	79.0	33.26	4,409.57	17,638.26	4	8,800.81	5.49E-04	1.0964	1.2688	0.2030
	2400	29.5	20.0	32.0	20.0	32.0	20.0	0.0	26.04	0.0	25.84	22.0	2,057	2	169.60	25.2	4,536.0	21.7	81.0	32.89	5,189.88	20,759.51	4	10,358.20	6.47E-04	1.2762	1.4770	0.2363
No readings recorded between 2400 and 0800																												
5/18/2018	0800	29.5	18.0	32.0	17.0	32.0	16.0	0.0	25.84	0.0	25.69	20.0	2,063	2	174.80	20.4	4,685.0	14.9	89.0	32.72	5,360.36	21,441.43	4	10,698.44	6.68E-04	1.3112	1.5174	0.2428
	1000	29.5	19.0	32.0	17.5	32.0	17.5	0.0	25.86	0.0	25.71	20.0	1,984	2	178.90	20.0	4,258.0	20.4	91.0	31.26	4,871.80	19,487.22	4	9,723.37	6.07E-04	1.1387	1.3178	0.2109
	1200	29.5	19.5	32.0	17.5	32.0	18.0	0.0	25.88	0.0	25.72	20.0	2,107	2	181.90	19.8	4,529.0	18.7	93.0	33.05	5,181.87	20,727.48	4	10,342.21	6.46E-04	1.2802	1.4816	0.2371
	1400	29.5	19.5	32.0	17.5	32.0	18.5	0.0	25.89	0.0	25.72	20.0	2,098	2	183.60	19.7	4,531.0	22.5	95.0	32.82	5,184.16	20,736.63	4	10,346.78	6.46E-04	1.2720	1.4721	0.2355
	1500	29.5	19.5	32.0	17.5	32.0	18.5	0.0	25.89	0.0	25.72	20.0	2,105	2	185.00	19.5	4,825.0	22.3	96.0	32.86	5,520.54	22,082.16	4	11,018.14	6.88E-04	1.3561	1.5694	0.2511
								Average Values					2,057	2	173.75	23.8	4748.1	20.9	--	32.69	5,432.54	21,730.14	4.00	10842.50	0.000677	1.3277	1.5366	0.2459
												B_{ws}	0.126	B_{wsw}	0.076													

Total Pounds of Carbon (emissions) **127.4606**

Total Pounds of Gasoline (as emissions) **147.5105**

Total Gallons of Gasoline (as emissions) **23.6017**

NOTES:

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

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

K - number of carbons in calibration gas

C_{cm} - mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMR_g - pollutant mass removal of VOCs as gasoline

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

B_{ws} - water vapor % by volume

Extraction Well Information					
Extraction Well ID	**Time**	**Depth to Free-Product (feet BTOC)**	**Depth to Water (feet BTOC)**	**Total Well Depth (feet BTOC)**	**Target Stinger Depth (feet BTOC)**
12430-MW0X	Initial	--	24.93	30	29.5
	Post	--	26.74		
12430-MW24	Initial	23.17	27.28	35	32
	Post	25.21	25.25		
12430-RW01	Initial	23.30	27.89	40	32
	Post	25.31	25.81		

WESTSIDE QUICK STOP – UST PERMIT #12430
LONG-TERM AFVR/MMPE EVENT

ATTACHMENT B

AFVR / MMPE Field Measurements & Emissions Calculations

Westside Quickstop - UST Permit #12430

12430-MW01, 12430-RW02, & 12430-MW24

		Extraction Wells						Radius of Influence Monitoring				Emissions Field Measurements								Emission Calculations								
		12430-MW01		12430-RW02		12430-MW24		12430-MW02		12430-MW25		System Vacuum	Effluent Velocity	Pipe Diameter	Effluent Temp.	Relative Humidity	Vapor Conc. Pre-Treatment	Vapor Conc. Post Treatment	Elapsed Time	Q_{std}	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Vacuum (in. H2O)	DTW (ft BTOC)	Vacuum (in. H2O)	DTW (ft BTOC)	(in. HG)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(hours)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
5/18/2018	1600	26.0	22.0	26.0	22.0	26.0	21.0	0.0	23.76	0.0	25.44	23.0	2,206	2	188.40	22.0	5,000.0	12.6	0.0	31.14	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4650	1.6954	0.2713
	1630	26.0	22.0	26.0	21.0	26.0	20.5	0.0	23.76	0.0	25.44	25.0	2,183	2	189.60	21.2	5,000.0	17.5	0.5	30.76	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4470	1.6746	0.2679
	1700	26.5	22.0	26.5	21.0	26.5	20.0	0.0	23.77	0.0	25.44	24.0	2,047	2	190.90	20.7	5,000.0	14.9	1.0	28.79	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.3541	1.5672	0.2507
	1730	26.5	21.0	26.5	20.5	26.5	20.0	0.0	23.77	0.0	25.44	23.0	2,234	2	189.30	20.4	5,000.0	21.6	1.5	31.49	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4815	1.7145	0.2743
	1800	26.5	20.0	27.0	20.0	27.0	19.0	0.0	23.78	0.0	25.44	23.0	2,198	2	191.40	19.5	5,000.0	20.3	2.0	30.89	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4529	1.6815	0.2690
	1830	27.0	19.5	27.0	20.0	27.0	18.5	0.0	23.78	0.0	25.44	23.0	2,134	2	192.80	19.6	5,000.0	19.0	2.5	29.92	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4076	1.6290	0.2606
	1900	27.0	19.5	27.5	19.5	27.5	19.0	0.0	23.78	0.0	25.45	23.0	2,176	2	190.30	19.8	5,000.0	18.9	3.0	30.63	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4408	1.6675	0.2668
	1930	27.0	20.0	28.0	19.5	28.0	18.5	0.0	23.79	0.0	25.45	23.0	2,107	2	191.90	19.8	5,000.0	22.4	3.5	29.58	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.3917	1.6106	0.2577
	2000	27.5	20.0	28.5	19.0	28.5	18.5	0.0	23.79	0.0	25.45	24.0	2,198	2	188.20	19.4	5,000.0	24.6	4.0	31.04	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4601	1.6898	0.2704
	2030	27.5	19.5	29.0	19.0	29.0	18.5	0.0	23.79	0.0	25.45	24.0	2,254	2	186.40	20.4	5,000.0	26.8	4.5	31.92	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.5015	1.7377	0.2780
	2100	28.0	19.5	29.5	18.5	29.5	18.5	0.0	23.79	0.0	25.45	24.0	2,189	2	185.40	21.6	5,000.0	21.3	5.0	31.04	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4604	1.6902	0.2704
	2130	28.0	20.0	30.0	19.0	30.0	18.0	0.0	23.79	0.0	25.45	24.0	2,206	2	185.80	22.0	5,000.0	20.8	5.5	31.27	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4709	1.7022	0.2724
	2200	28.5	20.0	30.5	19.0	30.5	18.5	0.0	23.80	0.0	25.46	24.0	2,096	2	183.20	21.9	5,000.0	19.5	6.0	29.83	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4032	1.6239	0.2598
	2230	28.5	19.5	31.0	19.0	31.0	18.0	0.0	23.80	0.0	25.46	24.0	2,113	2	181.60	22.4	5,000.0	16.4	6.5	30.14	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4181	1.6411	0.2626
	2300	29.0	19.5	31.5	19.0	31.5	18.0	0.0	23.80	0.0	25.46	24.0	2,078	2	182.90	23.6	5,000.0	22.4	7.0	29.59	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.3918	1.6107	0.2577
	2330	29.0	19.5	31.5	18.5	31.5	18.0	0.0	23.80	0.0	25.46	24.0	2,158	2	183.70	24.8	5,000.0	15.3	7.5	30.69	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4435	1.6706	0.2673
	2400	29.5	19.0	32.0	18.5	32.0	18.0	0.0	23.80	0.0	25.46	24.0	2,631	2	186.50	26.5	5,000.0	16.2	8.0	37.25	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.7523	2.0280	0.3245
No readings recorded between 2400 and 0800																												
5/19/2018	0800	29.5	18.5	32.0	18.0	32.0	17.5	0.0	23.66	0.0	25.48	21.0	2,206	2	182.40	23.6	5,000.0	28.9	16.0	31.43	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4786	1.7112	0.2738
	0900	29.5	20.0	32.0	18.5	32.0	19.0	0.0	23.65	0.0	25.48	23.0	2,194	2	183.90	22.6	5,000.0	28.4	17.0	31.19	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4672	1.6980	0.2717
	1000	29.5	19.5	32.0	18.0	32.0	17.5	0.0	23.65	0.0	25.48	22.0	2,156	2	185.60	21.2	5,000.0	32.4	18.0	30.57	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4380	1.6642	0.2663
	1100	29.5	19.0	32.0	18.0	32.0	17.0	0.0	23.66	0.0	25.48	21.0	2,234	2	188.90	20.7	5,000.0	31.6	19.0	31.51	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4824	1.7156	0.2745
	1200	29.5	19.0	32.0	18.0	32.0	17.0	0.0	23.66	0.0	25.49	21.0	2,185	2	187.60	20.4	4,635.0	19.7	20.0	30.88	5,833.11	23,332.46	4	11,641.99	7.27E-04	1.3468	1.5586	0.2494
	1300	29.5	19.0	32.0	17.5	32.0	17.0	0.0	23.66	0.0	25.49	21.0	2,165	2	189.50	19.8	5,000.0	25.3	21.0	30.51	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4353	1.6611	0.2658
	1400	29.5	18.5	32.0	17.5	32.0	17.0	0.0	23.67	0.0	25.49	21.0	2,095	2	190.60	19.9	4,238.0	29.5	22.0	29.47	5,333.49	21,333.97	4	10,644.83	6.65E-04	1.1752	1.3601	0.2176
	1500	29.5	18.5	32.0	17.5	32.0	17.5	0.0	23.67	0.0	25.50	21.0	2,211	2	191.50	19.7	5,000.0	27.0	23.0	31.06	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.4613	1.6912	0.2706
	1600	29.5	18.5	32.0	18.0	32.0	17.5	0.0	23.67	0.0	25.50	21.0	2,306	2	192.80	19.6	5,000.0	33.9	24.0	32.33	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.5210	1.7603	0.2816
	1700	29.5	18.5	32.0	18.0	32.0	17.5	0.0	23.67	0.0	25.51	21.0	2,254	2	193.40	20.1	4,632.0	31.4	25.0	31.58	5,829.34	23,317.35	4	11,634.46	7.26E-04	1.3761	1.5925	0.2548
	1800	29.5	19.0	32.0	18.0	32.0	17.5	0.0	23.68	0.0	25.51	22.0	2,186	2	194.20	20.2	4,582.0	37.6	26.0	30.59	5,766.41	23,065.65	4	11,508.87	7.18E-04	1.3185	1.5259	0.2441
	1900	29.5	19.0	32.0	18.0	32.0	17.5	0.0	23.68	0.0	25.51	22.0	2,145	2	190.20	19.8	4,231.0	33.9	27.0	30.20	5,324.68	21,298.73	4	10,627.24	6.63E-04	1.2020	1.3911	0.2226
	2000	29.5	18.5	32.0	18.0	32.0	17.5	0.0	23.68	0.0	25.51	22.0	2,263	2	192.40	20.1	3,956.0	40.1	28.0	31.75	4,978.60	19,914.39	4	9,936.51	6.20E-04	1.1817	1.3676	0.2188
	2100	29.5	18.5	32.0	17.5	32.0	17.5	0.0	23.69	0.0	25.51	22.0	2,294	2	191.50	20.2	3,586.0	38.4	29.0	32.23	4,512.95	18,051.82	4	9,007.16	5.62E-04	1.0874	1.2584	0.2013
	2200	29.5	18.5	32.0	17.5	32.0	17.5	0.0	23.69	0.0	25.51	22.0	2,246	2	188.60	21.3	3,247.0	32.9	30.0	31.70	4,086.33	16,345.30	4	8,155.67	5.09E-04	0.9683	1.1206	0.1793
	2300	29.5	18.5	32.0	17.5	32.0	17.0	0.0	23.69	0.0	25.51	22.0	2,186	2	189.60	23.5	3,205.0	45.3	31.0	30.80	4,033.47	16,133.88	4	8,050.18	5.03E-04	0.9288	1.0749	0.1720
	2400	29.5	18.5	32.0	17.5	32.0	17.0	0.0	23.69	0.0	25.51	22.0	2,146	2	187.50	23.5	3,268.0	39.8	32.0	30.34	4,112.75	16,451.02	4	8,208.42	5.12E-04	0.9327	1.0795	0.1727
No readings recorded between 2400 and 0800																												

Date	Time	12430-MW01 Stinger Depth (feet)	12430-MW01 Vacuum (in. HG)	12430-RW02 Stinger Depth (feet)	12430-RW02 Vacuum (in. HG)	12430-MW24 Stinger Depth (feet)	12430-MW24 Vacuum (in. HG)	12430-MW12 Vacuum (in. H2O)	12430-MW12 DTW (ft BTOC)	12430-MW25 Vacuum (in. H2O)	12430-MW25 DTW (ft BTOC)	System Vacuum (in. HG)	Effluent Velocity (ft/min)	Pipe Diameter (in)	Effluent Temp. (F)	Relative Humidity (%)	Vapor Conc. Pre-Treatment (ppm)	Vapor Conc. Post Treatment (ppm)	Elapsed Time (hours)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
5/20/2018	0800	27.0	20.0	27.0	19.5	27.0	19.0	0.0	23.72	0.0	25.47	22.0	2,342	2	180.60	26.8	5,000.0	42.6	40.0	33.46	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.5742	1.8218	0.2915
	1000	27.0	20.0	27.0	19.0	27.0	19.5	0.0	23.73	0.0	25.48	22.0	2,307	2	184.90	26.8	5,000.0	39.5	42.0	32.74	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.5403	1.7826	0.2852
	1200	27.0	19.5	27.0	19.5	27.0	19.5	0.0	23.73	0.0	25.48	22.0	2,286	2	188.10	36.2	5,000.0	41.1	44.0	32.29	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.5188	1.7577	0.2812
	1400	27.0	19.5	28.0	19.0	28.0	19.0	0.0	23.74	0.0	25.49	22.0	2,336	2	190.60	36.8	4,962.0	38.5	46.0	32.86	6,244.64	24,978.56	4	12,463.34	7.78E-04	1.5343	1.7756	0.2841
	1600	27.0	20.0	28.0	19.0	28.0	19.0	0.0	23.74	0.0	25.49	22.0	2,350	2	193.40	36.2	5,000.0	35.4	48.0	32.92	6,292.46	25,169.85	4	12,558.78	7.84E-04	1.5486	1.7923	0.2868
	1800	27.0	20.0	28.0	19.5	28.0	19.0	0.0	23.75	0.0	25.49	22.0	2,298	2	196.20	36.2	4,625.0	29.6	50.0	32.05	5,820.53	23,282.12	4	11,616.88	7.25E-04	1.3948	1.6142	0.2583
	2000	27.0	19.5	29.0	19.5	29.0	19.0	0.0	23.75	0.0	25.49	22.0	2,309	2	195.40	34.5	4,325.0	33.7	52.0	32.25	5,442.98	21,771.92	4	10,863.35	6.78E-04	1.3122	1.5186	0.2430
	2200	27.0	20.0	29.0	20.0	29.0	18.5	0.0	23.75	0.0	25.50	22.0	2,318	2	190.50	36.2	3,685.0	35.0	54.0	32.62	4,637.55	18,550.18	4	9,255.82	5.78E-04	1.1308	1.3087	0.2094
	2400	27.0	19.0	29.0	19.5	29.0	19.0	0.0	23.75	0.0	25.50	22.0	2,302	2	186.30	36.8	4,259.0	28.9	56.0	32.60	5,359.92	21,439.68	4	10,697.57	6.68E-04	1.3064	1.5119	0.2419
No readings recorded between 2400 and 0800																												
5/21/2018	0800	28.0	23.0	30.0	19.0	30.0	18.5	0.0	23.69	0.0	25.49	24.0	2,206	2	182.30	30.5	4,325.0	40.6	64.0	31.44	5,442.98	21,771.92	4	10,863.35	6.78E-04	1.2792	1.4804	0.2369
	1000	28.0	22.0	30.0	19.5	30.0	18.5	0.0	23.69	0.0	25.49	23.0	2,395	2	184.90	26.5	3,265.0	33.1	66.0	33.99	4,108.98	16,435.92	4	8,200.89	5.12E-04	1.0442	1.2085	0.1934
	1200	28.0	20.5	30.0	19.5	30.0	17.5	0.0	23.62	0.0	25.49	22.0	2,351	2	188.70	23.4	3,215.0	37.6	68.0	33.17	4,046.05	16,184.22	4	8,075.30	5.04E-04	1.0034	1.1613	0.1858
	1400	28.0	20.0	30.0	20.0	30.0	17.0	0.0	23.65	0.0	25.50	22.0	2,387	2	190.90	26.8	4,258.0	31.9	70.0	33.57	5,358.66	21,434.65	4	10,695.06	6.68E-04	1.3447	1.5563	0.2490
	1600	28.0	20.0	31.0	20.5	31.0	17.0	0.0	23.67	0.0	25.50	22.0	2,328	2	194.80	32.8	3,628.0	29.4	72.0	32.54	4,565.81	18,263.25	4	9,112.65	5.69E-04	1.1108	1.2855	0.2057
	1800	28.0	20.0	31.0	19.5	31.0	17.5	0.0	23.72	0.0	25.51	23.0	2,314	2	193.70	26.5	3,254.0	33.9	74.0	32.40	4,095.14	16,380.54	4	8,173.26	5.10E-04	0.9920	1.1480	0.1837
	2000	28.0	20.0	31.0	19.5	31.0	17.0	0.0	23.74	0.0	25.51	22.0	2,360	2	194.60	30.8	2,543.0	27.6	76.0	33.00	3,200.35	12,801.39	4	6,387.40	3.99E-04	0.7895	0.9137	0.1462
	2200	28.0	20.0	31.0	20.0	31.0	17.0	0.0	23.75	0.0	25.52	22.0	2,402	2	189.60	36.5	2,518.0	36.1	78.0	33.85	3,168.88	12,675.54	4	6,324.60	3.95E-04	0.8018	0.9279	0.1485
	2400	28.0	20.0	32.0	19.5	32.0	17.5	0.0	23.75	0.0	25.52	22.0	2,380	2	183.10	39.5	3,251.0	31.8	80.0	33.87	4,091.36	16,365.44	4	8,165.72	5.10E-04	1.0361	1.1991	0.1919
No readings recorded between 2400 and 0800																												
5/22/2018	0800	29.5	21.0	32.0	19.0	32.0	18.5	0.0	23.83	0.0	25.42	22.0	2,384	2	181.50	36.2	2,563.0	33.9	88.0	34.02	3,225.52	12,902.07	4	6,437.63	4.02E-04	0.8203	0.9493	0.1519
	1000	29.5	21.0	32.0	19.5	32.0	18.0	0.0	23.83	0.0	25.42	22.0	2,349	2	188.30	31.2	2,947.0	40.6	90.0	33.16	3,708.78	14,835.11	4	7,402.15	4.62E-04	0.9196	1.0642	0.1703
	1200	29.5	20.0	32.0	19.0	32.0	18.0	0.0	23.84	0.0	25.43	22.0	2,406	2	191.60	36.5	2,563.0	28.6	92.0	33.80	3,225.52	12,902.07	4	6,437.63	4.02E-04	0.8150	0.9432	0.1509
	1400	29.5	20.5	32.0	19.0	32.0	17.5	0.0	23.84	0.0	25.43	22.0	2,297	2	193.60	32.5	2,531.0	34.1	94.0	32.17	3,185.25	12,740.98	4	6,357.26	3.97E-04	0.7660	0.8865	0.1418
	1600	29.5	21.0	32.0	18.5	32.0	17.5	0.0	23.84	0.0	25.43	21.0	2,365	2	194.30	32.0	2,514.0	32.9	96.0	33.08	3,163.85	12,655.40	4	6,314.56	3.94E-04	0.7826	0.9056	0.1449
								Average Values					2,254	2	188.88	25.8	4294.9	29.5	--	31.79	5,405.14	21,620.55	4.00	10787.82	0.000673	1.2845	1.4866	0.2379
												B_{ws}	0.205	B_{wsw}	0.1239													

Total Pounds of Carbon (emissions) 123.3160

Total Pounds of Gasoline (as emissions) 142.7140

Total Gallons of Gasoline (as emissions) 22.8342

NOTES:

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

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

K - number of carbons in calibration gas

C_{cm} - mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMR_g - pollutant mass removal of VOCs as gasoline

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

B_{ws} - water vapor % by volume

Extraction Well Information					
Extraction Well ID	**Time**	**Depth to Free-Product (feet BTOC)**	**Depth to Water (feet BTOC)**	**Total Well Depth (feet BTOC)**	**Target Stinger Depth (feet BTOC)**
12430-MW01	Initial	21.39	25.65	30	29.5
	Post	26.25	26.38		
12430-RW02	Initial	23.04	26.84	38	32
	Post	29.42	29.52		
12430-MW24	Initial	23.73	25.45	35	32
	Post	26.21	26.58		

WESTSIDE QUICK STOP – UST PERMIT #12430
LONG-TERM AFVR/MMPE EVENT

ATTACHMENT C

75699

SCALE TICKET

05/18/2018 01:18PM
Progressive 9924
RcD I.D. 38764
Inbound weight 24260 lb

05/18/2018 02:03PM
Progressive 9939
RcD I.D. 38764
Gross 24260 lb
Tare 12220 lb
Net 12040 lb

12040 ÷ 8.34 lbs/gal ≈ 1443.64 gallons

Scale Company: VLS

Weighed By: JA

Carrier: Petra tech

Customer: Petra tech

PO/BOL/Manifest WtN 001159

Tractor Number: 01

Trailer Number: Na

Driver Signature: _____

WHITE - Driver YELLOW - Driver CARD - Scale

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
			WYN 001454

5. Generator's Name and Mailing Address
Petra-Tech Environmental
2435 E. North Street, Suite 1008-202
Greenville, SC 29615
Generator's Phone: (803) 606-2944

Generator's Site Address (if different than mailing address)
various SCDHEC Regional Sites

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
VLS Recovery Services, LLC
305 S. Main Street
Moulton, SC 29602
Facility's Phone: (8611) 962-9963

U.S. EPA ID Number: SCR 000762468

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Haz / Non Regulated well water # 16374	6	PVC Tanks	~1	
2. Westside Quick Stop - UST 12430 AFVR/Contact water	~1655 gallons			
3. LiL Cricket #3841 - UST 06545 Development water	~40 gallons			
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tyler Beaver — Signature: [signature] — Month 5 Day 22 Year 18

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tyler Beaver — Signature: [signature] — Month 5 Day 22 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: F. Chappell — Signature: Franky Chappell — Month 5 Day 22 Year 18

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GC Labels • Printed in the USA
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHWC
913-897-6966

75848

SCALE TICKET

05/22/2018 03:38PM
Progressive 10180
RcD I.D. 4687
Inbound weight 28120 lb

05/22/2018 04:31PM
Progressive 10186
RcD I.D. 4687
Gross. 28120 lb
Tare 13980 lb
Net 14140 lb

14140 ÷ 8.34 = 1695.44 gallons

Scale Company: VLS

Weighed By: J.D.

Carrier: Petra tech

Customer: Petra tech

PO/BOL/Manifest WYN 001454

Tractor Number: 01

Trailer Number: Na

Driver Signature:

WHITE - Driver YELLOW - Driver CARD - Scale

Please print or type
Form designed for use on elite (12-pitch) typewriter

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				WTN 001159

5. Generator's Name and Mailing Address
Petro Tech Environmental
[illegible] E. North Street, Suite 1108-762
Greenville, SC 29615
Generator's Phone: (803) [illegible]

Generator's Site Address (if different than mailing address)
Various UST Regulated Sites

6. Transporter 1 Company Name — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
VLS Recovery Services, LLC
705 S. 14th Street
Aiken, SC 29602
Facility's Phone: (864) [illegible]

U.S. EPA ID Number
SCR 000762468

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Haz / Non Regulated [illegible] # [illegible]	6	Pre Tanks		
2. VLS Sampled pH 6-58			1443.64 gallons	
3. Pop In - Cayce, SC UST 06067 Development water ~75 gallons				
4. Westside Quick Stop - Greenville, SC UST 12430 ~1368.64 gallons				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Tyler Beaver — Signature: [signature] — Month 5 Day 18 Year 18

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Tyler Beaver — Signature: [signature] — Month 5 Day 18 Year 18

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Franky Chappell — Signature: Franky Chappell — Month 5 Day 18 Year 18

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

GC Labels • Printed in the USA
1-800-997-6966

COPY

Reorder Part# MANIFEST-C6NHWC
913-897-6966

Document Receipt Information

☒ Hard Copy ☒ CD ☐ Email

Date Received 7-5-18

Permit Number 12430

Project Manager Tom Knight

Name of Contractor Petra-Tech

UST Certification Number _____

Docket Number 3844cch

Scanned _____

Additional Assessment

ADDITIONAL ASSESSMENT REPORT

Westside Quick Stop
SCDHEC UST Permit #12430
Cost Agreement #55855
821 West Parker Road
Greenville, South Carolina
Greenville County

PTE Job No. J18-528-A

June 23, 2018

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

Petra-Tech Environmental
2435 East North Street
Suite 1108-202
Greenville, SC 29615

www.petratechenv.com

petra-tech
ENVIRONMENTAL, LLC

June 23, 2018

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

Attention: Mr. Tom Knight, P.G.

Subject: **Additional Assessment Report**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
Cost Agreement #55855
PTE Job No. J18-528-A

Dear Mr. Knight,

On behalf of Shree Gajvakra LLC and Environmental Laboratories, Inc., Petra-Tech Environmental, LLC submits herein the completed Additional Assessment Report for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive letter dated February 22, 2018.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565



1.0 INTRODUCTION

The subject property is located at 821 West Parker Road in Greenville, Greenville County, South Carolina (**Figure 1**) and currently operates as a retail petroleum fueling station and convenience store. The site is bordered primarily by residential properties with the exception of a commercial property to the northeast and northwest.

According to the South Carolina Department of Health and Environmental Control Online Underground Storage Tank Registry database, three underground storage tanks (one 1,000-gallon kerosene and two 6,000-gallon regular gasoline) are currently in use at the site. Additionally, a 4,000-gallon super/premium gasoline underground storage tank is located at the site and is currently classified as extended-out-of-use. Two separate releases have been reported at the site. An Initial Groundwater Assessment, Tier I Assessment, and initial Tier II Assessment were completed in response to these releases.

As a result of the detection of free-phase petroleum product in groundwater monitoring well 12430-MW01 during a May 2016 groundwater gauging event conducted by the South Carolina Department of Health and Environmental Control, an additional Tier II Assessment and two 96-hour long-term AFVR/MMPE events were completed at the site in early 2017. The results of the AFVR/MMPE events were submitted to the South Carolina Department of Health and Environmental Control in a *Report of Long-Term AFVR/MMPE Events* dated May 8, 2017; and the results of the additional Tier II Assessment were submitted to the South Carolina Department of Health and Environmental Control in a *Tier II Assessment Report* dated May 29, 2017.

Two additional 96-hour long-term AFVR/MMPE events were completed at the site in May 2018. The results of the AFVR/MMPE events were submitted to the South Carolina Department of Health and Environmental Control in a *Report of Long-Term AFVR/MMPE Events* dated May 28, 2018.

A directive for a groundwater sampling and additional assessment to provide further plume definition was issued by the South Carolina Department of Health and Environmental Control on February 22, 2018. Assessment activities included the installation of two additional groundwater monitoring wells followed by a comprehensive groundwater sampling event and slug tests in the two newly installed groundwater monitoring wells. The results of the additional assessment are contained herein.

2.0 ASSESSMENT INFORMATION

2.1 Summary of Monitoring Well Installation Activities

Two groundwater monitoring wells (12430-MW18I and 12430-MW27I) were installed from March 5, 2018 through March 7, 2018. The intermediate groundwater monitoring wells were advanced to the top of rock (drill refusal). Monitoring well installations were performed by Mr. Robyn Barkley (SC Licensed Well Driller #0934-A) and Mr. Ryan McCormack (SC Licensed Well Driller #2174-D). Quality Assurance verification for monitoring well installation activities was provided by Ms. Kaye Jones.

2.1.1 Type II Wells

Groundwater monitoring wells 12430-MW18I and 12430-MW27I were installed as Type II monitoring wells using an AMS 9630 PRO drill utilizing hollow stem auger (3.5-inch inside diameter) drilling techniques. The monitoring wells consist of 2-inch ID, schedule 40 PVC casing with flush-threaded joints. The bottom 5-foot section of each monitoring well is a manufactured well screen with 0.010-inch wide machined slots. Standard sand filter pack, bentonite seal, and grout were installed to the ground surface.

Total well depths for Type II wells are:

12430-MW18I	65.47 feet below ground surface
12430-MW27I	65.41 feet below ground surface

Well construction diagrams and 1903 Water Well Records are included in **Appendix A**. Well construction data is provided in **Table 1**.

2.1.2 General

At assigned intervals, drill cuttings were collected for soil classification and representative portions of the test samples were visually examined and classified by a geologist. Soil samples were screened at 5-foot intervals using a photo-ionization detector.

To help prevent cross-contamination, downhole drilling equipment was steam cleaned between borings. Approximately 1.5 tons of petroleum impacted drill cuttings generated during the installation of the monitoring wells were transported off-site for disposal. Waste transportation and disposal records are included in **Appendix B**.

Monitoring well installations were performed by a South Carolina licensed driller and were developed through a combination of surging and overpumping. The monitoring well locations were surveyed by a licensed surveyor (George B. Souther RLS, SC #21232) to establish horizontal control and vertical elevations of the top of PVC casing and ground surface.

2.2 Groundwater Sampling

A comprehensive groundwater sampling event was conducted at the site between March 12, 2018 and March 19, 2018 by Mr. Jimmy Slagh and Mr. Tyler Beaver of Petra-Tech Environmental, LLC. Quality Assurance verification was provided by Ms. Kaye Jones.

Newly installed groundwater monitoring wells and groundwater monitoring wells where the well screen did not bracket the water table were purged until it was determined that groundwater flow through the well screen was not inhibited by silt or fine sand, and field parameters had stabilized. Approximately 135 gallons of decontamination fluids and purge-water generated during the monitoring well drilling, development, and sampling were transported off-site for disposal. Waste transportation and disposal records are attached in **Appendix B**. Monitoring well purging and sampling logs are included in **Appendix C**.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were submitted to Pace Analytical Services for analysis of BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B, 1,2-dibromoethane (EDB) by EPA Method 8011. Additionally, groundwater samples from select monitoring wells (12430-MW02, 12430-MW06, 12430-MW11, and 12430-MW0XR) were submitted for laboratory analysis of dissolved lead by EPA Method 6010 MET ISP as directed by the South Carolina Department of Health and Environmental Control. One duplicate sample per twenty wells sampled and one field blank for each day in the field was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B and EDB by EPA Method 8011. Additionally, one trip blank for each sample cooler was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B.

2.3 Assessment Results

2.3.1 Groundwater Occurrence

Site-wide stabilized groundwater elevations were recorded on March 12, 2018. A tabulation of the groundwater level data is provided in **Table 1**. A water table elevation contour map showing the occurrence and direction of groundwater flow in the shallow and intermediate screened interval is presented as **Figures 2a** and **2b,** respectively. Groundwater flow from the source area is generally to the southeast.

2.3.2 Groundwater Monitoring Well Sampling Results

Of the thirty-eight groundwater monitoring wells sampled for laboratory analysis during the current scope of work, petroleum compounds were detected above South Carolina established Risk-Based Screening Levels in wells 12430-MW02, 12430-MW04, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23, 12430-MW23I, 12430-MW25, 12430-MW26, and 12430-RW03.

Petroleum compounds detected above South Carolina established Risk-Based Screening Levels include:

- Benzene 12430-MW02, 12430-MW04, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23, 12430-MW23I, 12430-MW25, 12430-MW26, 12430-RW03
- Toluene 12430-MW12, 12430-MW12I, 12430-MW20, 12430-RW03
- Ethylbenzene 12430-RW03
- Xylenes 12430-RW03
- MTBE 12430-MW21, 12430-MW23, 12430-MW23I, 12430-RW03
- Naphthalene 12430-MW12I, 12430-MW21, 12430-MW23I, 12430-RW03
- 1,2-DCA 12430-MW23

- EDB 12430-MW20, 12430-MW21, 12430-MW26
- ETBE
- ETBA
- TAME
- DIPE 12430-MW21, 12430-MW23I
- Ethanol
- TBF
- TBA
- TAA 12430-MW02, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23, 12430-MW23I, 12430-MW25

Free-phase petroleum product was detected in groundwater monitoring wells 12430-MW01 (4.89 feet), 12430-MW24 (4.26 feet), 12430-MW0X (sheen), 12430-RW01 (5.22 feet), and 12430-RW02 (3.31 feet).

The results of the additional monitoring well laboratory analyses are summarized in **Table 2** and are shown on **Figures 3a** through **3d**. Laboratory data sheets are provided in **Appendix D**.

3.0 AQUIFER EVALUATION

Slug tests were performed in newly installed monitoring wells 12430-MW18I and 12430-MW27I to determine the hydraulic conductivity of the formation material exposed to the well screen. A South Carolina Department of Health and Environmental Control *Summary of Slug Test Form* is provided in **Appendix E**. The data from the tests are presented on **Table 3**.

Hydraulic Conductivity

Hydraulic conductivity is defined as the ability of the aquifer material to conduct water under a hydraulic gradient. Slug tests were performed at the site during the current scope of work to measure the in-situ hydraulic conductivity of the aquifer and were evaluated using the Bouwer and Rice Method[1] for partially-penetrating wells in an unconfined aquifer (slug testing results are included in **Appendix E**).

The hydraulic conductivity values measured at the site were:

- 3.286×10^{-4} cm/sec and 2.472×10^{-4} cm/sec (12430-MW18I)
- 3.289×10^{-4} cm/sec and 2.822×10^{-4} cm/sec (12430-MW27I)

[1] Bouwer, H., and Rice, R., A Slug Test for Determining Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, *Water Resources Research*, v. 12, o. 423-428.

Groundwater Flow Velocity

The velocity of groundwater flow is derived from the equation:

$$V = \frac{Ki}{n_e}$$

Where

V is the flow velocity
K is the hydraulic conductivity
i is the horizontal hydraulic gradient; and
n_e is the effective porosity.

The geometric mean horizontal movement of groundwater at the site is approximately 1.47 feet/year in the shallow screened interval and 0.73 in the intermediate screened interval (based on hydrogeologic site data and hydraulic conductivities recorded during the current and previous site assessments). **Table 3** summarizes the groundwater flow velocity calculations.

4.0 CONCLUSIONS

Free-phase petroleum product remains at the site in groundwater monitoring wells 12430-MW01 (4.89 feet), 12430-MW24 (4.26 feet), 12430-RW01 (5.22 feet), 12430-RW02 (3.31-feet), and 12430-MW0X (sheen). Additional 96-hour Aggressive Fluid Vapor Recovery (AFVR) events should be implemented to continue free-phase petroleum product removal. Groundwater sampling events should be implemented on a semi-annual schedule to monitor migration of the groundwater contaminant plume.

TABLES

TABLE 1
Monitoring Well and Groundwater Surface Elevation Data
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW01	1005.56	1005.32	08/13/2013	-	17.97	-	987.35	30.00	15.00 - 30.00	990.56 - 975.56
			03/31/2015	-	22.63	-	982.69			
			04/10/2017	25.21	29.37	4.16	978.86			
			04/24/2017	24.83	29.29	4.46	979.15			
			10/03/2017	24.28	29.31	5.03	979.53			
			03/12/2018	21.69	26.58	4.89	982.16			
12430-MW02	1006.50	1006.20	08/13/2013	-	18.85	-	987.35	30.00	15.00 - 30.00	991.50 - 976.50
			03/31/2015	-	21.69	-	984.51			
			04/10/2017	-	27.44	-	978.76			
			10/03/2017	-	26.53	-	979.67			
			03/12/2018	-	23.82	-	982.38			
12430-MW03	1008.72	1008.49	08/13/2013	-	21.00	-	987.49	30.00	15.00 - 30.00	993.72 - 978.72
			03/31/2015	-	23.81	-	984.68			
			04/10/2017	DRY			NA			
			10/03/2017	DRY			NA			
			03/12/2018	-	26.51	-	981.98			
12430-MW04	1008.45	1008.27	03/31/2015	-	23.47	-	984.80	30.49	20.29 - 30.29	988.16 - 978.16
			04/10/2017	DRY			NA			
			10/03/2017	-	28.19	-	980.08			
			03/12/2018	-	25.86	-	982.41			
12430-MW04I	1008.35	1008.12	04/10/2017	-	29.36	-	978.76	53.17	47.97 - 52.97	960.38 - 955.38
			10/03/2017	-	28.35	-	979.77			
			03/12/2018	-	25.93	-	982.19			
12430-MW05	998.24	997.73	03/31/2015	-	13.01	-	984.72	20.80	10.60 - 20.60	987.64 - 977.64
			04/10/2017	-	18.61	-	979.12			
			10/03/2017	-	18.26	-	979.47			
			03/12/2018	-	15.20	-	982.53			
12430-MW06	998.58	998.27	03/31/2015	-	13.32	-	984.95	21.47	11.27 - 21.27	987.31 - 977.31
			04/10/2017	-	19.01	-	979.26			
			10/03/2017	-	18.25	-	980.02			
			03/12/2018	-	15.53	-	982.74			
12430-MW07	1006.27	1005.88	03/31/2015	-	19.61	-	986.27	31.04	20.84 - 30.84	985.43 - 975.43
			04/10/2017	DRY			NA			
			10/03/2017	-	25.52	-	980.36			
			03/12/2018	-	22.85	-	983.03			
12430-MW08	1007.86	1007.43	03/31/2015	-	22.71	-	984.72	31.10	20.90 - 30.90	986.96 - 976.96
			04/10/2017	-	28.58	-	978.85			
			10/03/2017	-	27.62	-	979.81			
			03/12/2018	-	25.04	-	982.39			
12430-MW09	1009.07	1008.55	03/31/2015	-	23.20	-	985.35	30.04	19.84 - 29.84	989.23 - 979.23
			04/10/2017	DRY			NA			
			10/03/2017	-	27.96	-	980.59			
			03/12/2018	-	25.74	-	982.81			
12430-MW10	1008.54	1008.22	03/31/2015	-	22.94	-	985.28	30.47	20.27 - 30.27	988.27 - 978.27
			04/10/2017	-	29.30	-	978.92			
			10/03/2017	-	26.98	-	981.24			
			03/12/2018	Car Parked Above Well						
12430-MW11	1008.26	1007.84	03/31/2015	-	22.82	-	985.02	30.83	20.63 - 30.63	987.63 - 977.63
			04/10/2017	-	29.37	-	978.47			
			10/03/2017	-	27.16	-	980.68			
			03/12/2018	-	25.70	-	982.14			
12430-MW12	1005.64	1005.35	04/10/2017	-	26.59	-	978.76	35.69	25.49 - 35.49	980.15 - 970.15
			10/03/2017	-	25.39	-	979.96			
			03/12/2018	-	23.41	-	981.94			
12430-MW12I	1005.65	1005.37	04/10/2017	-	26.65	-	978.72	45.63	40.43 - 45.43	965.22 - 960.22
			10/03/2017	-	25.81	-	979.56			
			03/12/2018	-	23.05	-	982.32			
12430-MW14	1000.38	1000.02	04/10/2017	-	21.25	-	978.77	25.57	15.37 - 25.37	985.01 - 975.01
			10/03/2017	-	20.46	-	979.56			
			03/12/2018	-	17.75	-	982.27			
12430-MW14I	1000.31	1000.11	04/10/2017	-	21.41	-	978.70	67.92	62.72 - 67.72	937.59 - 932.59
			10/03/2017	-	20.64	-	979.47			
			03/12/2018	-	17.93	-	982.18			
12430-MW15	1000.15	999.88	04/10/2017	-	21.18	-	978.70	26.83	16.63 - 26.63	983.52 - 973.52
			10/03/2017	-	20.52	-	979.36			
			03/12/2018	-	17.70	-	982.18			
12430-MW15I	1000.06	999.88	04/10/2017	-	21.24	-	978.64	62.13	56.93 - 61.93	943.13 - 938.13
			10/03/2017	-	20.55	-	979.33			
			03/12/2018	-	17.78	-	982.10			
12430-MW16	1001.01	1000.63	04/10/2017	-	22.10	-	978.53	27.71	17.51 - 27.51	983.50 - 973.50
			10/03/2017	-	21.38	-	979.25			
			03/12/2018	-	18.59	-	982.04			
12430-MW16I	1001.10	1000.72	04/10/2017	-	22.11	-	978.61	65.49	60.29 - 65.29	940.81 - 935.81
			10/03/2017	-	21.41	-	979.31			
			03/12/2018	-	18.65	-	982.07			
12430-MW17	1000.25	999.85	04/10/2017	-	21.36	-	978.49	28.82	18.62 - 28.62	981.63 - 971.63
			10/03/2017	-	20.76	-	979.09			
			03/12/2018	-	17.81	-	982.04			

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW17I	1000.44	1000.01	04/10/2017	-	21.46	-	978.55	60.41	55.21 - 60.21	945.23 - 940.23
			10/03/2017	-	20.82	-	979.19			
			03/12/2018	-	17.97	-	982.04			
12430-MW18	1003.14	1002.78	04/10/2017	-	24.38	-	978.40	29.30	19.10 - 29.10	984.04 - 974.04
			10/03/2017	-	23.61	-	979.17			
			03/12/2018	-	20.90	-	981.88			
12430-MW18I	1002.36	1001.89	03/12/2018	-	19.87	-	982.02	65.47	60.27 - 65.27	942.09 - 937.09
12430-MW19	1008.61	1008.24	04/10/2017	-	29.68	-	978.56	39.69	29.49 - 39.49	979.12 - 969.12
			10/03/2017	-	28.83	-	979.41			
			03/12/2018	-	26.07	-	982.17			
12430-MW19I	1008.55	1008.18	04/10/2017	-	29.57	-	978.61	70.68	65.48 - 70.48	943.07 - 938.07
			10/03/2017	-	28.82	-	979.36			
			03/12/2018	-	25.93	-	982.25			
12430-MW20	1008.40	1008.01	04/10/2017	-	29.41	-	978.60	40.87	30.67 - 40.67	977.73 - 967.73
			10/03/2017	-	28.22	-	979.79			
			03/12/2018	-	25.76	-	982.25			
12430-MW21	1007.16	1006.73	04/10/2017	-	28.06	-	978.67	35.14	24.94 - 34.94	982.22 - 972.22
			10/03/2017	-	27.19	-	979.54			
			03/12/2018	-	24.54	-	982.19			
12430-MW22	1007.45	1007.12	04/10/2017	-	28.31	-	978.81	35.06	24.86 - 34.86	982.59 - 972.59
			10/03/2017	-	27.30	-	979.82			
			03/12/2018	-	24.68	-	982.44			
12430-MW22I	1007.28	1007.03	04/10/2017	-	28.29	-	978.74	49.72	44.52 - 49.52	962.76 - 957.76
			10/03/2017	-	27.46	-	979.57			
			03/12/2018	-	24.73	-	982.30			
12430-MW23	1008.66	1008.24	04/10/2017	-	29.61	-	978.63	39.87	29.67 - 39.67	978.99 - 968.99
			10/03/2017	-	28.71	-	979.53			
			03/12/2018	-	26.14	-	982.10			
12430-MW23I	1008.66	1008.21	10/03/2017	-	28.73	-	979.48	61.69	56.49 - 61.49	952.17 - 947.17
			03/12/2018	-	26.02	-	982.19			
12430-MW24	1006.83	1006.39	04/10/2017	26.56	31.04	4.48	978.49	35.25	25.05 - 35.05	981.78 - 971.78
			04/24/2017	25.87	30.62	4.75	979.10			
			10/03/2017	25.29	31.56	6.27	979.22			
			03/12/2018	23.11	27.37	4.26	982.00			
12430-MW25	1007.57	1007.27	04/10/2017	-	28.72	-	978.55	38.20	28.00 - 38.00	979.57 - 969.57
			10/03/2017	-	27.82	-	979.45			
			03/12/2018	-	25.13	-	982.14			
12430-MW26	1007.68	1007.33	04/10/2017	-	28.52	-	978.81	36.45	26.25 - 36.25	981.43 - 971.43
			10/03/2017	-	27.50	-	979.83			
			03/12/2018	-	24.94	-	982.39			
12430-MW26I	1007.67	1007.27	04/10/2017	-	28.53	-	978.74	55.11	49.91 - 54.91	957.76 - 952.76
			10/03/2017	-	27.50	-	979.77			
			03/12/2018	-	24.91	-	982.36			
12430-MW27	1007.24	1006.96	10/03/2017	-	27.26	-	979.70	34.70	24.50 - 34.50	982.74 - 972.74
			03/12/2018	-	24.99	-	981.97			
12430-MW27I	1007.49	1007.08	03/12/2018	-	25.20	-	981.88	65.41	60.21 - 65.21	947.28 - 942.28
12430-MW28	1007.08	1006.76	10/03/2017	-	26.82	-	979.94	35.91	25.71 - 35.71	981.37 - 971.37
			03/12/2018	-	24.20	-	982.56			
12430-RW01	1007.18	1006.69	04/10/2017	27.34	29.98	2.64	978.56	40.69	20.49 - 40.49	986.69 - 966.69
			04/17/2017	26.99	30.19	3.20	978.74			
			10/03/2017	25.62	31.71	6.09	979.24			
			03/12/2018	23.14	28.36	5.22	981.98			
12430-RW02	1006.53	1006.23	04/10/2017	26.58	30.63	4.05	978.44	38.08	17.88 - 37.88	988.65 - 968.65
			04/24/2017	25.58	28.63	3.05	979.74			
			10/03/2017	25.61	30.26	4.65	979.23			
			03/12/2018	23.63	26.94	3.31	981.61			
12430-RW03	1006.17	1005.90	04/10/2017	-	27.19	-	978.71	40.00	19.80 - 39.80	986.37 - 966.37
			10/03/2017	-	26.29	-	979.61			
			03/12/2018	-	23.57	-	982.33			
12430-MWX	1007.47	1007.20	04/10/2017	28.53	NA	+1.47	NA	30.27	20.07 - 30.07	987.40 - 977.40
			04/17/2017	28.30	NA	+1.70	NA			
			10/03/2017	-	27.69	Sheen	979.51			
			03/12/2018	-	24.07	Sheen	983.13			
12430-MWXR	1007.67	1007.31	04/10/2017	-	28.66	-	978.65	38.25	28.05 - 38.05	979.62 - 969.62
			04/17/2017	28.43	28.45	0.02	978.87			
			10/03/2017	-	27.83	Sheen	979.48			
			03/12/2018	-	25.06	-	982.25			

NOTES:
Measurements are in feet
BGS - below ground surface
Elevations are NAVD 88

TABLE 2
Summary of Groundwater Analytical Results
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW01	08/13/2013	-	***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.90***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***27000***	<10	NT
			27000	***54000***	***2700***	***13000***	***5200***	<500	***0.93***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***28000***	<10	NT
	03/30/2015	-	***3000***	***6300***	***440***	***2500***	***800***	<20	<0.049	<7.4	<10	<75	<13	***68***	<960	<33	***180 J***	***1800***	<4.7	NT
			3000	***6200***	***420***	***2500***	***820***	<20	<0.0049	<7.4	<10	<75	<13	***67***	<960	<33	***190 J***	***1900***	<4.7	NT
	04/10/2017	4.16	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	4.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW02	08/13/2013	-	***1000***	***1000***	***200***	***570***	***23***	<20	<0.019	<20	<20	<400	<200	<100	<2000	<100	<400	***910***	<10	NT
	03/30/2015	-	***23000***	***51000***	***3200***	***15000***	***520***	***620***	***0.36***	<74	<100	<750	<130	***1600***	<9600	<330	<1100	***20000***	<4.7	NT
	04/11/2017	-	***851***	***659***	***139***	***562***	<8.5	<10.0	<0.021	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***687***	22.0	NT
	03/19/2018	-	***545***	***710***	***134***	***924***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1240***	NT	<2.5
			570	***494***	***108***	***817***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1020***	NT	<2.5
12430-MW03	08/13/2013	-	<1	<1	<1	<1	<1	<1	<0.020	<1	<1	<20	<10	<5	<100	<5	<20	<20	<10	NT
	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***9 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW04	03/30/2015	-	***41***	***31***	***6.7***	***63***	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	***4.4***	<19	<0.66	<2.3	***5.1 J***	***6.4 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	***241***	***11.3***	<3.2	***346***	<3.4	<4.0	<0.020	<3.6	<7.2	<64.2	<6.8	12.5	<262	<14.6	<115	<154	NT	NT
12430-MW04I	04/11/2017	-	***3.8 J***	***1.9 J***	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW05	03/31/2015	-	***0.22 J***	***0.70 J***	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW06	03/31/2015	-	***0.18 J***	***0.73 J***	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***14***	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	**46.4**	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	<2.5
12430-MW07	03/31/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	4.8 J	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW08	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***26***	***14 J***	<4.7	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW09	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW10	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.0049	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***3.6 J***	<1.5	<4.7	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***286***	NT
	03/12/2018	NOT SAMPLED - CAR PARKED ABOVE MONITORING WELL																		
12430-MW11	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***6.7 J***	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	***2.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***77.5 J***	***68.4***	NT
	03/12/2018		<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	<2.5

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW12	04/15/2017	-	***2050***	***3930***	***422***	***1580***	<34.0	<40.0	<0.019	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3010***	<2.5	NT
	03/19/2018		***1930***	***2840***	***383***	***1380***	<42.5	<50.0	<0.020	<45.0	<90.0	<802	<85.0	<42.5	<3280	<182	<1440	***3490***	NT	NT
12430-MW12I	04/15/2017	-	***2700***	***6210***	***576***	***2740***	<68.0	<80.0	<0.020	<72.0	<144	<1280	<136	<68.0	<5240	<292	<2310	***3680 J***	<2.5	NT
	03/19/2018		***1440***	***2880***	***231***	***1570***	<34.0	***41.8 J***	<0.020	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3830***	NT	NT
12430-MW14	04/11/2017	-	***746***	***748***	***80.5***	***476***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	***795 J***	<36.5	<288	***2050***	***3.1 J***	NT
			764	***749***	***79.6***	***462***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***2220***	***10.6***	NT
	03/12/2018	-	***526***	***535***	***59.1***	***374***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	<384	NT	NT
			520	***522***	***57.4***	***358***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1070***	NT	NT
12430-MW14I	04/11/2017	-	***33.4***	***16.0***	***2.6 J***	***15.0***	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***111***	<2.5	NT
	03/12/2018		***3.4 J***	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW15	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW15I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW16	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***2.8 J***	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW16I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW17	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW17I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW18	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW18I	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW19	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW19I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW20	04/10/2017	-	***341***	***286***	***26.1***	***119***	<4.2	<5.0	<0.020	<4.5	<9.0	<80.2	<8.5	***39.3***	<328	<18.2	<144	***1010***	<2.5	NT
	03/19/2018	-	***1620***	***1100***	***68.0***	***707***	<21.2	<25.0	***0.062***	<22.5	<45.0	<401	<42.5	***73.7***	<1640	<91.2	<721	***3740***	NT	NT
12430-MW21	04/15/2017	-	***5520***	***1620***	***675***	***5700***	***1240***	***285***	***0.42***	<72.0	<144	<1280	<136	***585***	<5240	<292	<2310	***4390***	<2.5	NT
	03/19/2018	-	***3230***	***487***	***197***	***3660***	***732***	***404***	***0.16***	<36.0	<72.0	<642	<68.0	***329***	<2620	<146	<1150	***4530***	NT	NT
12430-MW22	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW22I	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW23	04/10/2017	-	***1400***	<20.0	<20.0	<33.8	***47.4 J***	***72.4***	<0.020	<22.5	<45.0	<401	<42.5	***44.7 J***	<1640	<91.2	<721	***1030 J***	<2.5	NT
	03/19/2018	-	***381***	<6.4	<6.4	<20.0	***45.6***	***9.6 J***	<0.020	***8.8 J***	<14.4	<128	<13.6	***26.0***	<524	<29.2	<231	***909***	NT	NT
12430-MW23I	10/03/2017	-	***115***	***4.9 J***	***3.1 J***	<5.0	***9.3***	***3.3 J***	<0.019	<1.8	<3.6	<32.1	<3.4	***16.3***	<131	<7.3	<57.7	***202***	<2.5	NT
			105	***4.5 J***	***2.9 J***	<5.0	***8.4***	***3.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	***14.8***	<131	<7.3	<57.7	***199***	<2.5	NT
	03/19/2018	-	***4840***	***67.5 J***	***68.5 J***	<125	***291***	***125***	0.023	<45.0	<90.0	<802	<85.0	***395***	<3280	<182	<1440	***10400***	NT	NT
12430-MW24	04/10/2017	4.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	4.26	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW25	04/15/2017	-	***11.6***	***2.0 J***	<1.6	<2.7	***3.7 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
			11.4	***2.5 J***	<1.6	<2.7	***3.5 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	***166***	***42.4***	<3.2	***56.6***	***11.8***	<4.0	<0.020	<3.6	<7.2	<64.2	<6.8	***4.2 J***	<262	<14.6	<115	***390***	NT	NT
12430-MW26	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	***15.2***	<1.6	<1.6	***14.0***	<1.7	<2.0	***0.056***	<1.8	<3.6	<32.1	<3.4	***2.7 J***	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW26I	04/15/2017	-	***2.6 J***	***2.8 J***	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW27	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW27I	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW28	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
12430-MW0X	04/10/2017	>1.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	Sheen	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW0XR	04/11/2017	-	***3580***	***9410***	***621***	***3390***	***516***	<200	<0.020	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	***18.2***	NS
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	***30.8***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	***2.1 J***	<131	<7.3	<57.7	<76.8	NT	<2.5
12430-RW01	04/10/2017	2.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	5.22	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW02	04/10/2017	4.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	3.31	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW03	04/15/2017	-	***7020***	***12200***	***1890***	***9200***	***298 J***	***275 J***	<0.020	<180	<360	<3210	<340	***251 J***	<13100	<730	<5770	<7680	<2.5	NT
			6750	***11700***	***1890***	***9100***	***304 J***	***269 J***	<0.020	<180	<360	<3210	<340	***257 J***	<13100	<730	<5770	<7680	<2.5	NT
	03/19/2018	-	***5770***	***15400***	***2040***	***12100***	***205 J***	***261 J***	NT	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	NT	NT
FIELD BLANK 1	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
FIELD BLANK 2	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
TRIP BLANK 1	-	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	N/A	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
TRIP BLANK 2	-	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	NT	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
TRIP BLANK 3	-	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	NT	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT

NOTES:
RBSL - Risk Based Screening Level
Bold values indicate concentrations detected above the laboratory method detection limit.
Shaded values indicate concentrations exceeding RBSLs.
NE - Not Established
NT - Not Tested

TABLE 3
Groundwater Velocity
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

Shallow wells								
VELOCITY CALCULATION	**Hydraulic Conductivity (K) (centimeters/second)**	**Hydraulic Conductivity (K) (feet/day)**	**Hydraulic Conductivity (K) (feet/year)**	**Hydraulic Gradient (i) (unitless)**	**Effective Porosity (n) (unitless)**	**Groundwater Velocity (V) (feet/day)**	**Groundwater Velocity (V) (feet/year)**	**Groundwater Velocity (V) (meters/second)**
12430-MW16	6.139E-04	1.74	635.20	0.0011	0.27	7.22E-03	2.64	2.55E-08
	6.042E-04	1.71	625.16			7.11E-03	2.60	2.51E-08
12430-MW19	7.495E-05	0.21	77.55	0.0011	0.27	8.66E-04	0.32	3.05E-09
	7.522E-05	0.21	77.83			8.69E-04	0.32	3.06E-09
Mathematical Mean	3.421E-04	0.97	353.94	0.0011	0.27	4.02E-03	1.47	1.42E-08

Intermediate Wells								
VELOCITY CALCULATION	**Hydraulic Conductivity (K) (centimeters/second)**	**Hydraulic Conductivity (K) (feet/day)**	**Hydraulic Conductivity (K) (feet/year)**	**Hydraulic Gradient (i) (unitless)**	**Effective Porosity (n) (unitless)**	**Groundwater Velocity (V) (feet/day)**	**Groundwater Velocity (V) (feet/year)**	**Groundwater Velocity (V) (meters/second)**
12430-MW16I	2.980E-04	0.84	308.34	0.0006	0.27	1.88E-03	0.69	6.62E-09
	1.289E-04	0.37	133.37			8.12E-04	0.30	2.86E-09
12430-MW18I	3.286E-04	0.93	340.00	0.0006	0.27	2.07E-03	0.76	7.30E-09
	2.472E-04	0.70	255.78			1.56E-03	0.57	5.49E-09
12430-MW19I	5.263E-04	1.49	544.56	0.0006	0.27	3.32E-03	1.21	1.17E-08
	4.060E-04	1.15	420.09			2.56E-03	0.93	9.02E-09
12430-MW27I	3.289E-04	0.93	340.31	0.0006	0.27	2.07E-03	0.76	7.31E-09
	2.822E-04	0.80	291.99			1.78E-03	0.65	6.27E-09
Mathematical Mean	3.183E-04	0.90	329.30	0.0006	0.27	2.00E-03	0.73	7.07E-09

Notes:

Hydraulic conductivity values were obtained from slug tests performed by Petra-Tech Environmental, LLC.

Effective porosity values for the shallow and intermediate wells screened in a clayey, course to fine sandy silt were estimated from published values of effective porosity for a fine sand (ranging from 0.01 to 0.46; arithmetic mean 0.33) and silt (ranging from 0.01 to 0.39; arithmetic mean 0.20) (McWorter and Sunada 1977).

Hydraulic gradient for the shallow aquifer was calculated during previous assessments and is based on groundwater elevations from and distances between monitoring wells 12430-MW12 and 12430-MW19.

Hydraulic gradient for the intermediate aquifer was calculated during previous assessments and is based on groundwater elevations from and distances between monitoring wells 12430-MW12I and 12430-MW19I.

Groundwater velocity derived from the equation V = Ki/n.

FIGURES



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

N

SITE

Ⓦ Private Water supply Well

Title	Site Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County
Date	06/21/2018
Job No.	J18-528-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 1

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

MW-9 982.81

MW-8 982.39

MW-28 982.56

MW-7 983.03

MW-12 981.94 (982.32) MW-12i

MW-22 982.44 (982.30) MW-22i

MW-2 982.38

MW-26i (982.36)

MW-26 982.39

MW-4 982.41

MW-4i (982.19)

MW-11 982.14

RW-3 (981.61)

RW-2

MW-21 982.19

MW-1 (982.16)

MW-24 (982.00)

RW-1 (981.98)

MW-3 981.98

MW-20 982.25

MW-14 982.27

MW-14i (982.18)

MW-25 982.14

MW-23i (982.19)

MW-23 982.10

MW-X (983.13)

MW-XR (982.25)

MW-19i (982.25)

MW-19 982.17

MW-27 981.97

MW-27i (981.88)

MW-6 982.74

MW-15 982.18

MW-15i (982.10)

MW-16 982.04

MW-16i (982.07)

MW-18i (982.02)

MW-18 981.88

MW-17i (982.04)

MW-5 982.53

MW-17 982.04

MW-10 Not Available

Approximate location of suspected out-of-service private water supply well

TRANSMISSION LINE

GRASS

VACUUM

ASPHALT

GRAVEL

ISLAND

CHAIN LINK FENCE

982.50

982.25

982.00

Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.25-feet

541.28 Groundwater Elevation (March 12, 2018)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

Title	Groundwater Potentiometric Map – Shallow Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	06/22/2018
Job No.	J18-528-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2a

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD

Not Available

MW-10

MW-9 (982.81)

MW-8 (982.39)

MW-28 (982.56)

MW-7 (983.03)

MW-12 (981.94)

MW-12i 982.32

MW-22 (982.44)

MW-22i 982.30

MW-26i 982.36

MW-26 (982.39)

MW-4 (982.41)

MW-4i 982.19

MW-2 (982.38)

RW-3 (982.33)

RW-2 (981.61)

MW-21 (982.19)

MW-1 (982.16)

RW-1 (981.98)

MW-24 (982.00)

MW-14 (982.27)

MW-14i 982.18

MW-6 (982.74)

MW-X (983.13)

MW-15 (982.18)

MW-15i 982.10

MW-25 (982.14)

MW-XR (982.25)

MW-20 (982.25)

MW-3 (981.98)

MW-23i 982.19

MW-23 (982.10)

MW-19i 982.25

MW-19 (982.25)

MW-11 (982.14)

MW-27 (981.97)

MW-27i (981.88)

MW-16 (982.04)

MW-16i 982.07

MW-18i 982.02

MW-18 (981.88)

MW-17i 982.04

MW-17 (982.04)

MW-5 (982.53)

982.25

982.00

982.25

982.00

GRASS

ASPHALT

GRAVEL

VACUUM

ISLAND

CHAINLNK FENCE

TRANSMISSION LINE

Approximate location of suspected out-of-service private water supply well

Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.25-feet

541.28 Groundwater Elevation (March 12, 2018)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

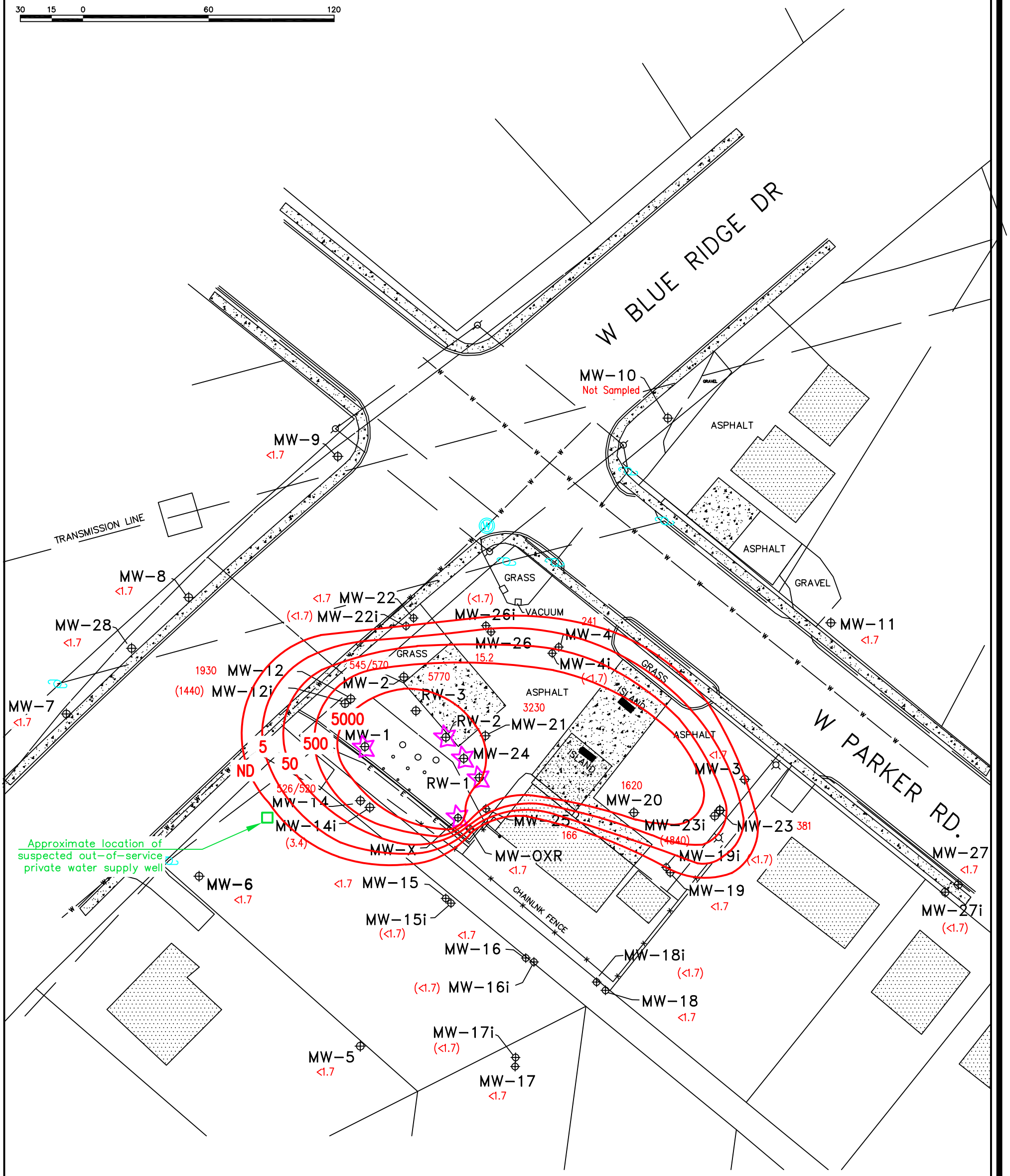
Title	Groundwater Potentiometric Map – Intermediate Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	06/22/2018
Job No.	J18-528-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2b

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120



Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Benzene Concentration in Micrograms Per Liter

(2.5J) — Benzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes

Benzene Isoconcentration Line

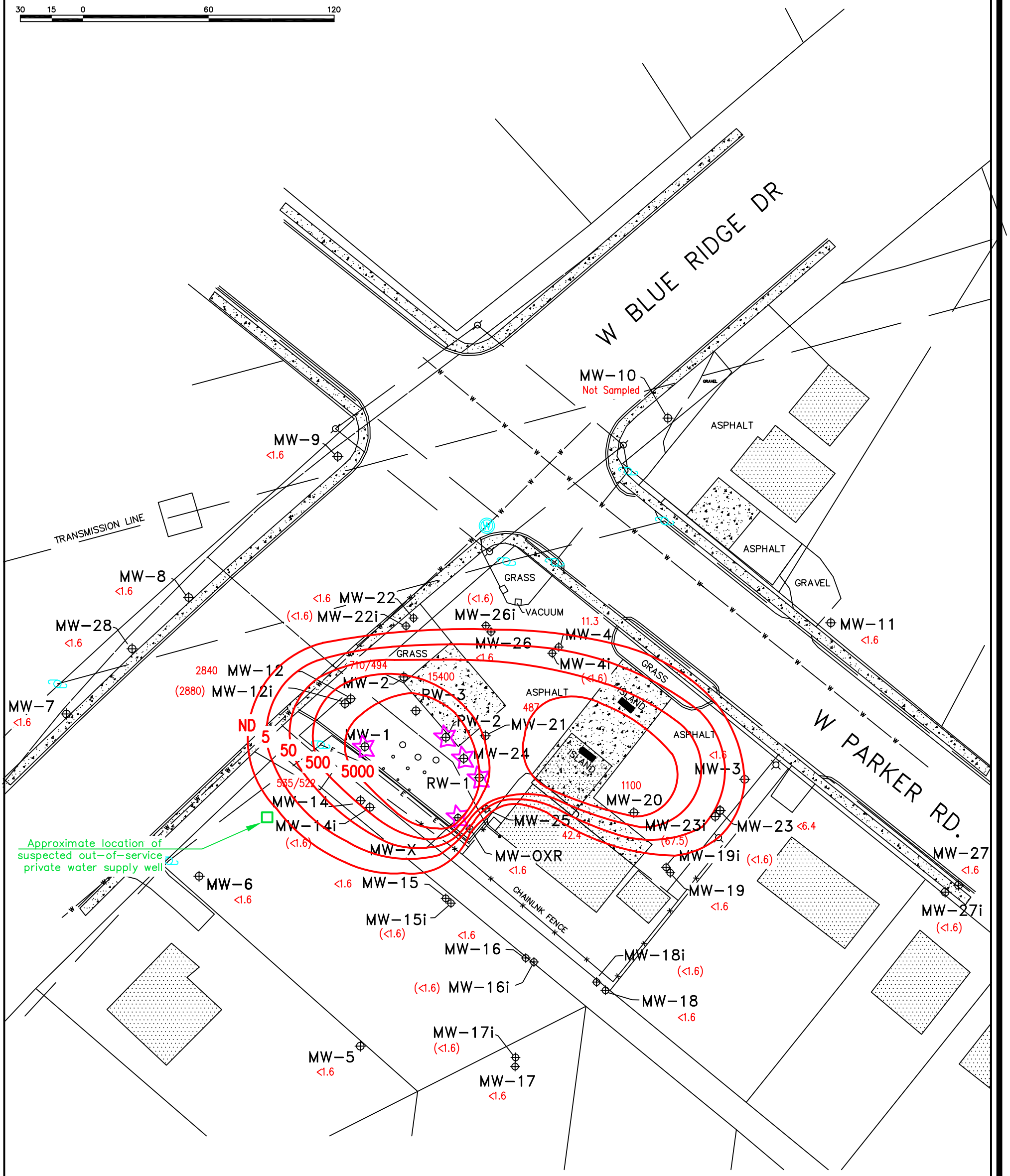
Title	Benzene Isoconcentration Map – March 2018
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	06/22/2018
Job No.	J18-528-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3a

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120



Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Toluene Concentration in Micrograms Per Liter

(2.5J) — Toluene Concentration In Micrograms Per Liter Not Used For Contouring Purposes

Toluene Isoconcentration Line

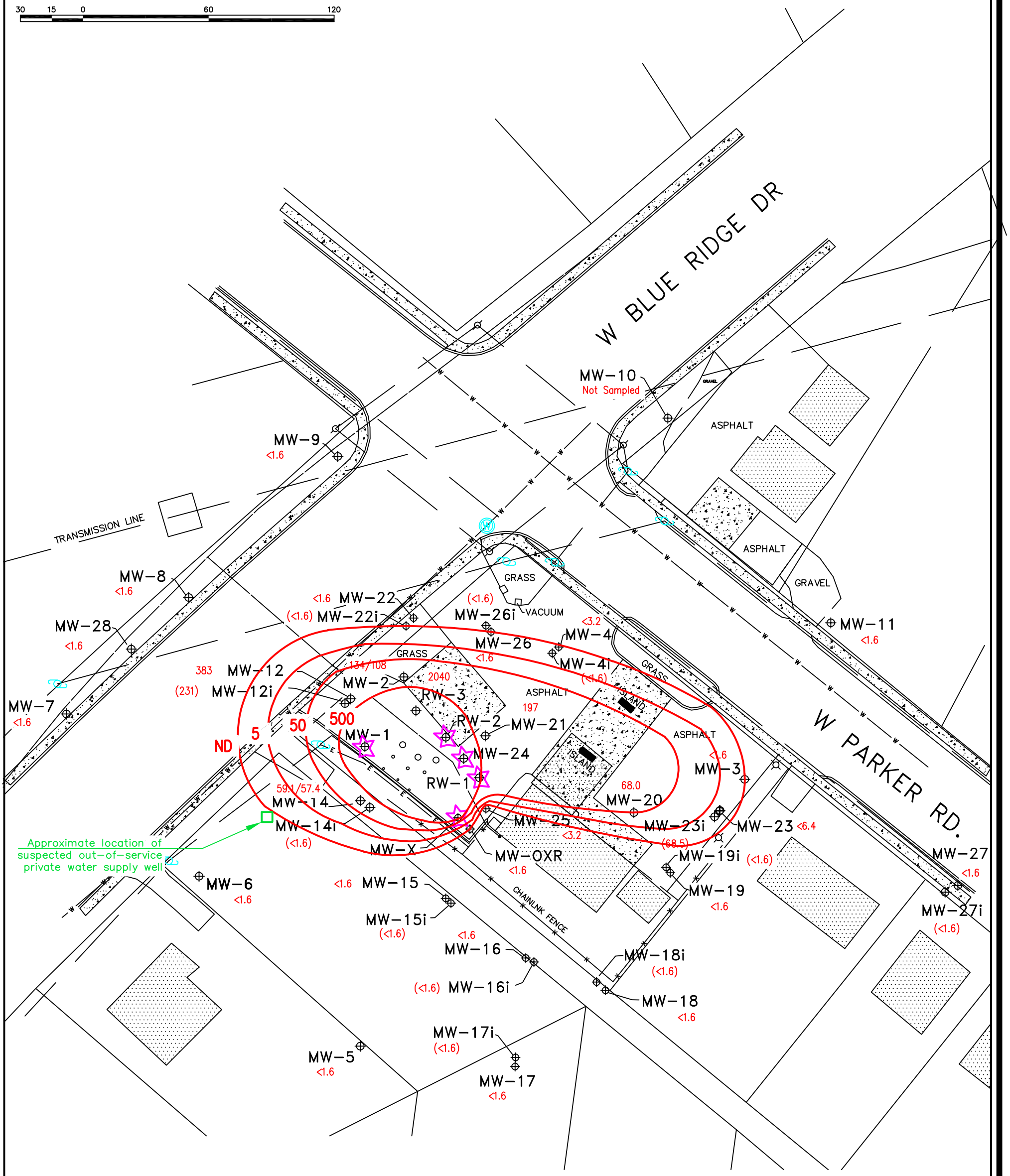
Title	Toluene Isoconcentration Map – March 2018
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	06/22/2018
Job No.	J18-528-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3b

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120



Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Ethylbenzene Concentration in Micrograms Per Liter

(2.5J) — Ethylbenzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes

Ethylbenzene Isoconcentration Line

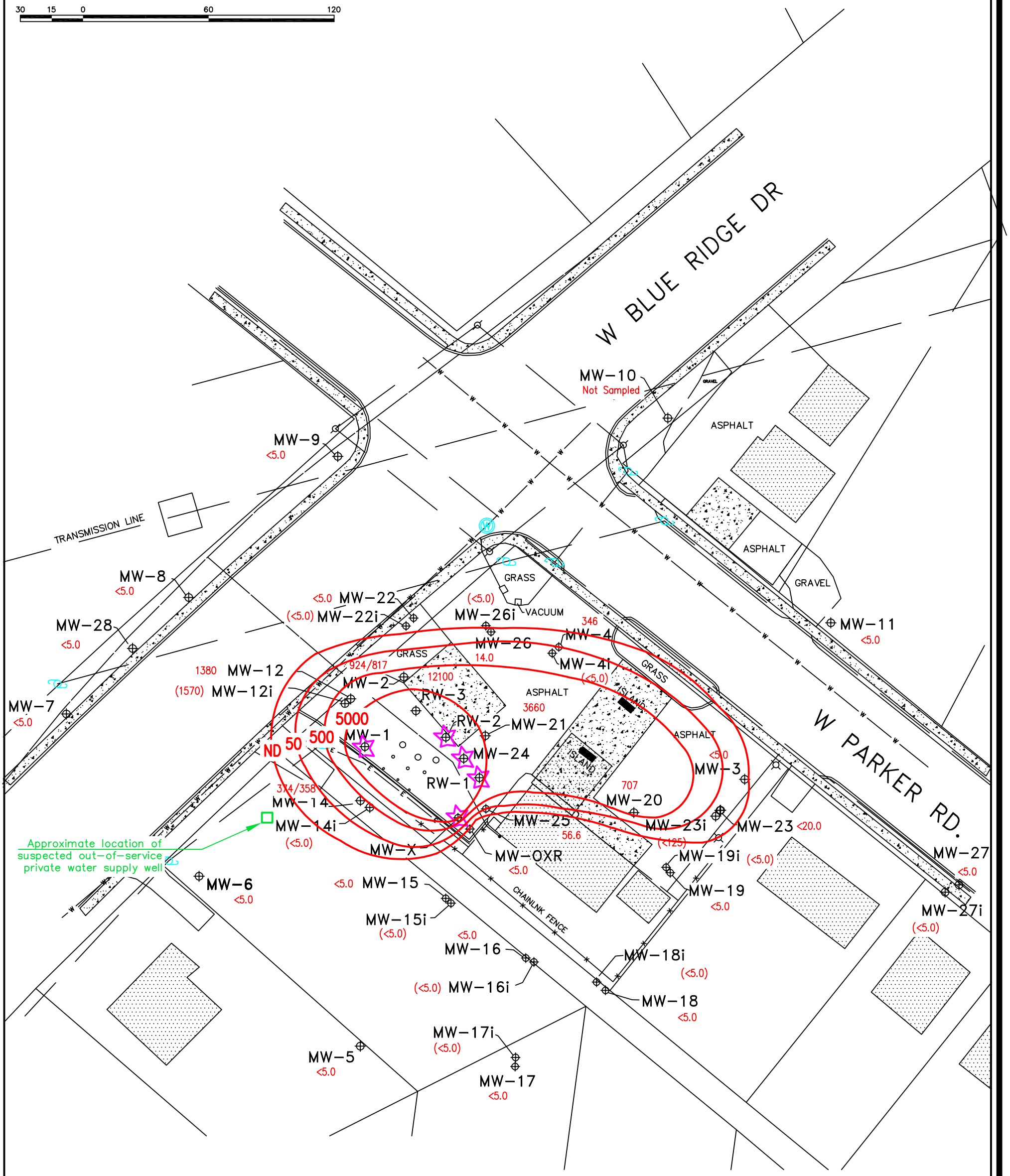
Title	Ethylbenzene Isoconcentration Map – March 2018
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	06/22/2018
Job No.	J18-528-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3c

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; 2 October 2017; Revised 12 May 2018

30 15 0 60 120



Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Xylenes Concentration in Micrograms Per Liter

(2.5J) — Xylenes Concentration In Micrograms Per Liter Not Used For Contouring Purposes

Xylenes Isoconcentration Line

Title	Xylenes Isoconcentration Map – March 2018
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	06/22/2018
Job No.	J18-528-A

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Figure No. 3d

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX A

FIELD BORING LOG (12430-MW18I)

Job Name: Westside Quick Stop	**Job Number:** J18-528-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: R. McCormack/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 7, 2018	**Logged By:** Jimmy S.

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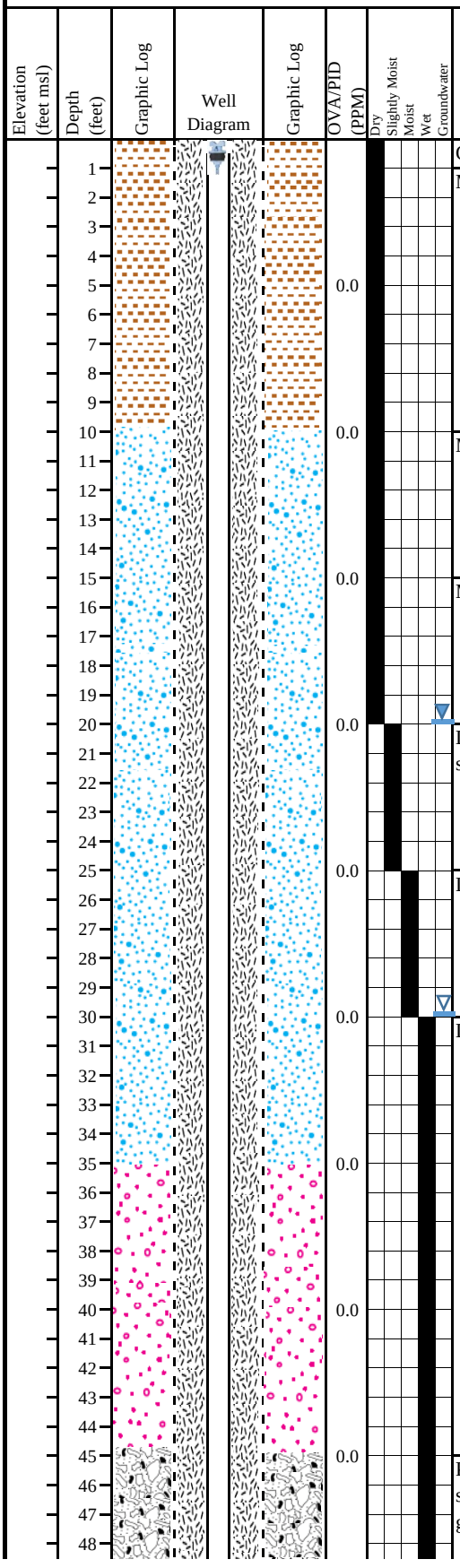
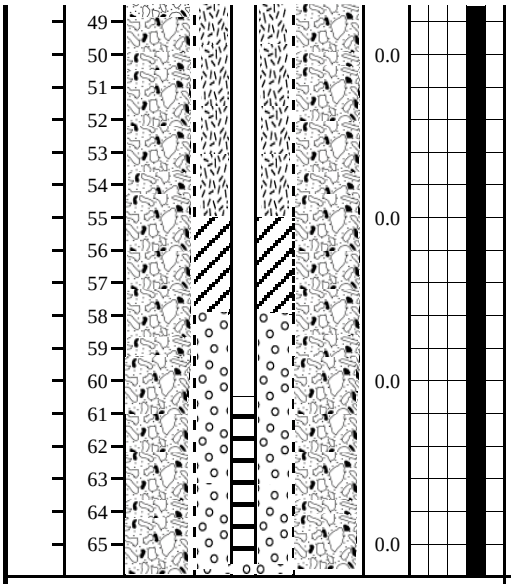


Soil Description
Grass
Moderate red (5R 4/6), dry, clayey, fine sandy silt
Moderate yellowish brown (10YR 5/4), dry, clayey, fine to medium sandy silt
Moderate yellow (5Y 7/6), dry, clayey, silty, fine to medium sand
Dark yellowish brown (10YR 4/2), slightly moist, slightly clayey, silty, fine to medium sand
Light olive brown (5Y 5/6), moist, clayey, silty, fine to medium sand
Dark yellowish brown (10YR 4/2), wet, clayey, silty, medium to course sand
Partially weathered rock sampling as moderate yellowish brown (10YR 5/4), wet, clayey, silty, fine to medium sand. Drill refusal encountered at approximately 66 feet below ground surface.



Boring terminated at 66.0 feet below ground surface.

Legend

- Filter Sand Pack (58.0 - 66.0 feet BGS)
- Bentonite Seal (55.0 - 58.0 feet BGS)
- Bentonite-Cement Grout (0 - 55.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 66.0 feet below ground surface. Groundwater encountered at 30.0 feet below ground surface at time of boring and 20.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105871.27
Easting	=	1570009.39
Top of Casing Elevation	=	1001.89
Ground Surface Elevation	=	1002.36
Total Well Depth	=	65.47
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	60.27-65.27
6-inch Outer Casing Depth	=	

FIELD BORING LOG (12430-MW27I)

Job Name: Westside Quick Stop	**Job Number:** J18-528-A
Site Address: 821 West Parker Road, Greenville, South Carolina	
Drill Method: 3.25-inch ID H.S.A	**Drill Rig:** AMS 9500 VTR
Driller Name: R. McCormack/R. Barkley	**Company:** ERGS, Inc.
Installation Date: March 6, 2018	**Logged By:** Jimmy S.

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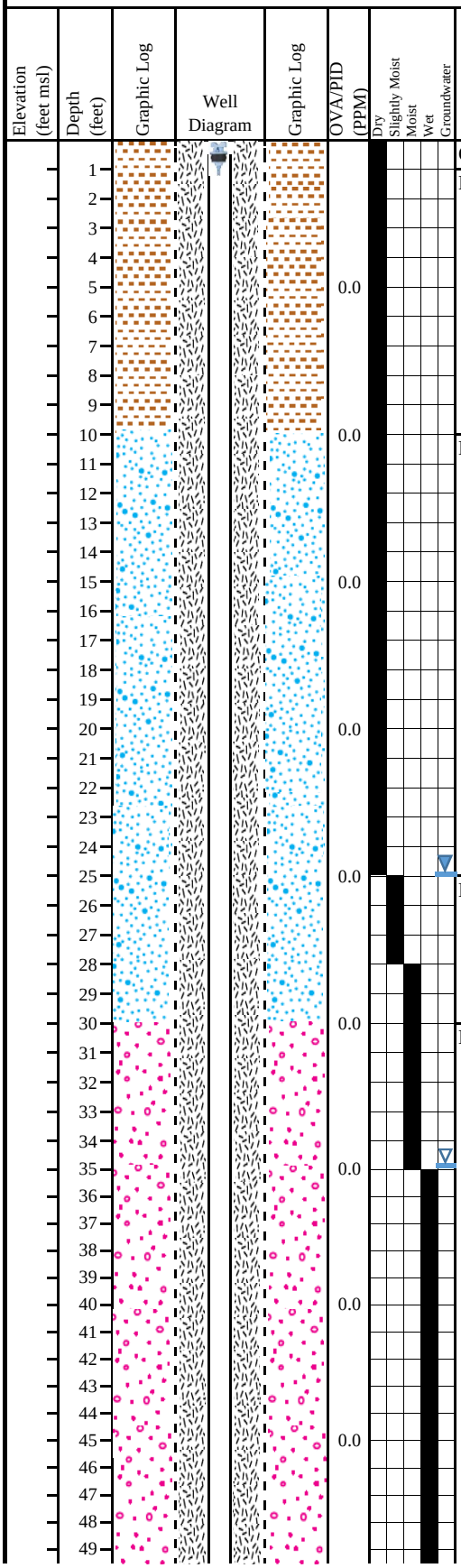
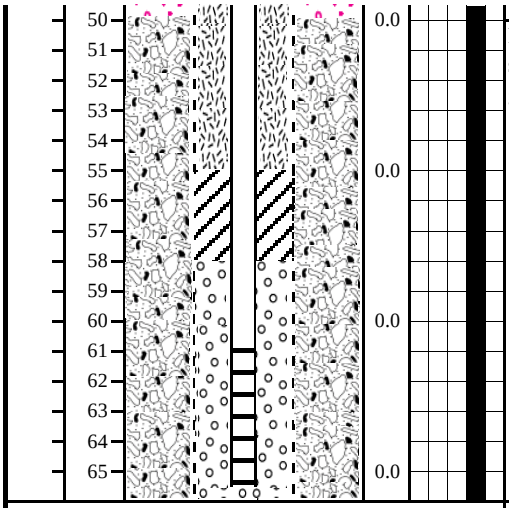
ENGINEERS & CONSULTANTS



Soil Description
Grass/Organic Topsoil
Moderate brown (10R 4/6), dry, clayey silt
Moderate red (5R 4/6), dry, clayey, fine sandy silt
Moderate brown (5YR 3/4), dry to slightly moist, clayey, fine to medium sandy silt
Dark yellowish brown (10YR 4/2), moist to wet, clayey, silty, medium to course sand



Partially weathered rock sampling as moderate yellowish brown (10YR 5/4), wet, clayey, silty, fine to medium sand. Drill refusal encountered at approximately 66 feet below ground surface.

Boring terminated at 66.0 feet below ground surface.

Legend

- Filter Sand Pack (58.0 - 66.0 feet BGS)
- Bentonite Seal (55.0 - 58.0 feet BGS)
- Bentonite-Cement Grout (0 - 55.0 feet BGS)
- Water Level at Time of Boring
- 24-Hour Water Level
- Sand
- Clayey Sand
- Silty Sand
- Clayey Silt
- Sandy Silt
- Sandy Clay
- Silty Clay
- Clay
- Silt
- Partially Weathered Rock
- Bedrock - Metamorphic
- Bedrock - Igneous
- Bedrock - Sedimentary
- Other -

Notes

Boring terminated at 66.0 feet below ground surface. Groundwater encountered at 35.0 feet below ground surface at time of boring and 25.0 feet below ground surface after 24 hours. Flush Mount well completion with 8-inch diameter steel, bolted manhole cover installed in a 2-foot by 2-foot concrete pad.

Northing	=	1105911.35
Easting	=	1570181.94
Top of Casing Elevation	=	1007.08
Ground Surface Elevation	=	1007.49
Total Well Depth	=	65.41
Screen Length	=	5
Screen Size	=	0.01
Screened Interval Depth	=	60.21-65.21
6-inch Outer Casing Depth	=	

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **SCDHEC**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip:
Phone:

2. LOCATION OF WELL: **COUNTY:** **Greenville**
Name: **Westside Quick Stop**
Address: **821 West Parker Road**
City: **Greenville, SC**
1105871.27 1570009.39

3. PUBLIC SYSTEM NAME: 12430 - MW18I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal **55** - **58** ft BGS

6. TYPE: (Mud Rotary) Jetted Bored
Dug Air Rotary Driven
Cable tool Auger Other

7. PERMIT NUMBER: **MWA #** 26873 **UST #** 12430

8. USE:
Residential Public Supply Process
Irrigation Air Conditioning Emergency
Test Well (**Monitor Well**) Replacement

9. WELL DEPTH (completed)
Date Started: **3/5/2018**
65.47 ft. Date Completed: **3/7/2018**

10. CASING: (**Threaded**) Welded
Diameter: **2"**
Type: **PVC**
Top of Casing Elevation **2.0** in. to **60.27** ft. depth
1001.89 **6.0** in. to **0.0** ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **2"**
Slot/Gauge: **0.010"** Length: **5**
Set Between: **60.27** ft. and **65.27** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **20.00** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Sand**
Installed from: **58.0** ft. to **66.0** ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From **0.0** ft. to **55.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible Jet (shallow) Turbine
Jet (deep) Reciprocating Centrifugal

19. WELL DRILLER: Robyn Barkley **CERT NO.: 934**
Address: ERGS, LLC Level: (A) B C D
2435 East North St, Ste 1108-158 (circle one)
Greenville, SC 29615
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: **3/7/18**

If D Level Driller, provide supervising driller's name.
Ryan McCormack 2174D

Water Well Record
Bureau of Water
2600 Bull Street, Columbia, SC 29201-1708; (803) 898-4300

1. WELL OWNER INFORMATION:
Name: **SCDHEC**
(last) (first)
Address: **2600 Bull Street**
City: **Columbia** State: **SC** Zip:
Phone:

2. LOCATION OF WELL: **COUNTY:** **Greenville**
Name: **Westside Quick Stop**
Address: **821 West Parker Road**
City: **Greenville, SC**
1105911.35 1570181.94

3. PUBLIC SYSTEM NAME: 12430 - MW27I

4. ABANDONMENT:
Grouted Depth: from to ft.

Formation Description	Thickness of Stratum	Depth to Bottom of Stratum

SEE BORING LOGS

5. REMARKS:
Bentonite Seal **55** - **58** ft BGS

6. TYPE: Mud Rotary, Jetted, Bored; Dug, Air Rotary, Driven; Cable tool, (Auger), Other

7. PERMIT NUMBER: **MWA #** 26873 **UST #** 12430

8. USE:
Residential, Public Supply, Process; Irrigation, Air Conditioning, Emergency; Test Well, (**Monitor Well**), Replacement

9. WELL DEPTH (completed)
65.41 ft. Date Started: **3/5/2018** Date Completed: **3/6/2018**

10. CASING: (**Threaded**) Welded
Diameter: **2"**
Type: **PVC**
Top of Casing Elevation **2.0** in. to **60.21** ft. depth
1007.08 **6.0** in. to **0.0** ft. depth
Height: Below
Surface: ft. Weight: lb./ft.
Drive Shoe:

11. SCREEN:
Type: **PVC** Diameter: **2"**
Slot/Gauge: **0.010"** Length: **5**
Set Between: **60.21** ft. and **65.21** ft.
ft. and ft.
Sieve Analysis: Y/N

12. STATIC WATER LEVEL **25.00** ft. below land surface after 24 hours.

13. PUMPING LEVEL Below Land Surface.
ft. after hrs Pumping GPM
Pumping Test:
Yield:

14. WATER QUALITY
Chemical Analysis: Bacterial Analysis:

15. ARTIFICIAL FILTER (filter pack) **Sand**
Installed from: **58.0** ft. to **66.0** ft.
Effective Size: Uniformity Coefficient:

16. WELL GROUTED?
Neat Cement Bentonite (Bentonite/Cement) Other
Depth: From **0.0** ft. to **55.0** ft.

17. NEAREST SOURCE OF POSSIBLE CONTAMINATION: ft. direction
Type:
Well Disinfected: Type: Amount:

18. PUMP: Date installed:
Mfr. Name: Model no.:
H.P.: Volts: Length of pipe: ft.
Capacity: gpm
TYPE:
Submersible, Jet (shallow), Turbine
Jet (deep), Reciprocating, Centrifugal

19. WELL DRILLER: Robyn Barkley **CERT NO.: 934**
Address: ERGS, LLC
2435 East North St, Ste 1108-158
Greenville, SC 29615
Level: (A) B C D (circle one)
Telephone: 864.248.0019 Fax: 877.409.8472

20. WATER WELL DRILLER'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Signed: Robyn Barkley
Date: **3/6/18**

If D Level Driller, provide supervising driller's name.
Ryan McCormack 2174D

Well Development Field Form

Facility Name: Westside Quick stop - 821 West Parker Rd, Greenville, SC
Site ID#: #12430
Date: 3/8/18
Field Personnel: R. McCormack / R. Barkley / T. Beaver
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. McCormack / R. Barkley
Driller's Certification Number: 2174-D / 934-A
Weather Conditions:

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter
serial no. 2233570
4.01 su X
7.00 su X
10.00 su X

Conductivity meter
serial no. 2413677
23 us
84 us X
447 us X
1413 us X

Temperature meter
serial no. 24113677

Turbidity meter
serial no. AG36883
0 NTU X
1 NTU
10 NTU
100 NTU X

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 18I
Well Casing Diameter 2 inches
Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 21.43 ft.
Screen Length/Slot Size 5 ft./ 0.01 in.
Total Well Depth (TWD) 65 ft.
Screen Interval 60 ft. to 65 ft.
Length of water column (LWC=TWD-DGW) 43.57 ft.
Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 20 gals.
Drilling Fluids recovered N/A gals.

Time (military)	1659	1709	1716	1719	1726	1732	
pH (s.u.)*	6.9	6.8	6.4	6.4	6.4	6.4	
Specific Conductivity (mmhos/cm)*	196	145	118	120	120	122	
Water Temperature (C)*	25.8	24.7	24.1	24.0	24.0	24.0	
Turbidity (NTU) *	>1000	682	107	36	16.1	10	
Odor	none	→	→	→	→	→	
Cumulative Gallons of Water Removed	15 gals	17 gals	18 gals	19 gals	19.5 gals	20 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Robyn Barkley Date: 3/8/18

Well Development Field Form

Facility Name: Westside Quick stop - 821 West Parker Rd, Greenville, SC
Site ID#: #12430
Date: 317118
Field Personnel: R. McCormack / R. Barkley / T. Beaver
Drilling Company: Environmental Remediation & Geophysical Services (ERGS)
Driller's Name: R. McCormack / R. Barkley
Driller's Certification Number: 2174-D / 934-A
Weather Conditions:

Well Development Method

Surge Block ⊗ Submersible Pump ⊗ Air Lifting ○

* Bailing can be combined with any of the above methods, but not utilized alone for development.

Quality Assurance

pH meter		Conductivity meter		Temperature meter	Turbidity meter	
serial no. 2233570		serial no. 2413677		serial no. 24113677	serial no. AG36883	
4.01 su	X	23 us			0 NTU	X
7.00 su	X	84 us	X		1 NTU	
10.00 su	X	447 us	X		10 NTU	
		1413 us	X		100 NTU	X

Drilling Method

Hollow Stem Augers ⊗ Solid Flight Augers ○ Direct Push ○
Air Rotary ○ Mud Rotary ○ Sonic ○

Monitoring Well ID# 2TI Well Casing Diameter 2 inches Borehole Diameter ~7.5 inches
Depth to Ground Water (DGW) 24.68 ft. Screen Length/Slot Size 5 ft./ 0.01 in.
Total Well Depth (TWD) 65 ft. Screen Interval 60 ft. to 65 ft.
Length of water column (LWC=TWD-DGW) 40.32 ft. Type of Drilling Fluids used: N/A
Total Gallons of Water Removed: 22 gals. Drilling Fluids recovered N/A gals.

Time (military)	0745	0756	0810	0817	0828	0836	
pH (s.u.)*	7.2	7.1	6.8	6.7	6.7	6.7	
Specific Conductivity (mmhos/cm)*	125	96	84	80	80	80	
Water Temperature (C)*	24.1	23.8	23.6	23.2	23.2	23.2	
Turbidity (NTU) *	>1000	321	106	101	16	9.5	
Odor							
Cumulative Gallons of Water Removed	10 gals	13 gals	17 gals	19 gals	21 gals	22 gals	gals

* Development is completed once groundwater turbidity is ≤ 10 NTU and all parameters are ± 10%.

Detailed description of Well Development process: Well development consists of vigorous surging using a surge block equipped with a check valve, allowing recovery of water/silt/sediment through tubing attached to the top of the surge block device. Surging is followed by overpumping using a submersible pump and/or removal of water using a bailer.

Driller Signature: Robyn Barkley Date: 317118

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX B

38224838

TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 4-27-18

12:17 **SCALE:** 719

38224838 **LOCATION:** PILOT TRAVEL CENTER
I-26 EXIT 52
CLINTON SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	3960 lb
DRIVE AXLE	17480 lb
TRAILER AXLE	00 lb
* GROSS WEIGHT	21440 lb

21440
-11460
9980
±21c
4.99
Tons

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED: FREIGHT ALL KINDS

COMPANY: ERGS

TRACTOR #: 001 TRAILER #: SDT

WEIGH NUMBER 4838

FEE $11.50

WEIGHMASTER OR WEIGHER SIGNATURE: JS JOYCE SUMMEROW

TICKET # OF FULL $ WEIGH (IF REWEIGH)

STOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE

© CAT Scale® Reg 3063 11/17

WASTE MANAGEMENT

Richland County LF
1047 Highway Church Road
Elgin, SC, 29045
Ph: (803) 788-3054

Original
Ticket# 1514012

Customer Name PETRATECHENVIRO PETRA-TECH EN
Ticket Date 02/21/2017
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 0
Destination
PO
Profile 605496SC (DRILL CUTTINGS)
Generator 126-PETRATECHENVIRO PETRA-TECH ENVIRONMENTAL, LLC

Carrier petra tech Eniviro Petra Tech
Vehicle# 1
Container
Driver
Check#
Billing # 0001043
Gen EPA ID NR

Volume

	Time	Scale	ScaleMaster
In	02/21/2017 08:01:59	Inbound #2	Dwayne
Out	02/21/2017 08:17:13	Outbound	Dwayne

Gross	20380 lb
Tare	11460 lb
Net	8920 lb
Tons	4.46

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Sp. W.-T	100	4.46	Tons				34-MARION
2	RCR-P-Regulatory C	100		%				34-MARION
3	FUEL-Fuel Surcharg	100		%				34-MARION
4	EVF-P-Standard Env	100		%				34-MARION

F250 w/ Small Dump Trailer

Total Fees
Total Ticket

SIGNATURE

403WM

Standard Register
CC762228-AD (08-15)

NON-HAZARDOUS WASTE MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	38224838

GENERATOR

3. Generator's Name and Mailing Address: PTE / ERGS
2435 E. North St, Ste 1108-202
Greenville, SC 29615

4. Generator's Phone (including area code): 864/436/6322

Various SCDHEC UST Regulated Sites.

5. Transporter 1 Company Name	6. US EPA ID Number	A. Transporter's Phone
ERGS	NIA	864/436/6322
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	C. Facility's Phone
Twin Chimneys Landfill 11075 Augusta Rd Honea Path, SC 29654	# 231001-1102	864/243/9672

11. Waste Shipping Name and Description	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Haz/Non Regulated Soil Cuttings Waste Profile # 231001-1102	1	Trailer	See WT Ticket 4.99 Tons	
b. Westside Quick Stop UST 12430 ~1.5 Tons Soil Cuttings				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste

Printed/Typed Name	Signature	Month	Day	Year
PTE / ERGS		4	27	18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
PTE / ERGS (Ryan M.)	Ryan M	4	27	18

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year
Twin Chimneys Landfill		4	27	18

ORIGINAL - RETURN TO GENERATOR

Solid Waste Division

Marcia L. Papin
Solid Waste Manager
Mpapin@greenvillecounty.org

(864) 243-9672

www.greenvillecounty.org

Expiration Date: April 10, 2023

Petra-Tech Environmental
Attn: Lindsey Grooms
2435 E. North Street
Suite 1108-202
Greenville South Carolina 29614

RE: Disposal Requirements for Drill Cuttings at Twin Chimneys Landfill – Facility ID #231001-1102

Mr. Grooms:

This office has determined that drill cuttings are suitable for disposal in the Twin Chimneys Landfill in Greenville County. I have received and reviewed your analytical data. Please have your hauler reference the special waste identification number SW-00065 when disposing of this material. The materials for disposal are as outlined:

Reddish brown, dry soil

All disposals are subject to the following conditions:

1. May be brought to the landfill during the hours of 7:30 a.m. to 3:00 p. m., Monday through Friday.

2. Waste must be in solid form. No liquid or hazardous waste will be accepted.

3. Precautions must be taken to prevent leaking or spillage during transport.

4. Special handling waste must be brought in separately from other waste. Otherwise, the entire load will be charged at a special handling rate,

5. Drums must be triple rinsed, with holes punched in them. Lids must be removed prior to disposal.

6. The driver must notify the weigh master of the waste origin and the type of waste in the load.

7. All waste approved by this letter must come into the Twin Chimneys Landfill; otherwise, this letter becomes null and void.

8. The current charge will be . per ton. Rates are subject to change by ordinance of County Council. If you or your haulers are not on the charge system, you must pay at the gate with cash or a company check.

9. This letter will run for FIVE YEARS ONLY. When a company notifies this office in writing of the unchanged nature of the waste stream and quantities involved, another approval may be issued pending the Solid Waste Department's evaluation. A Company whose waste stream and quantities have changed will need to reflect these changes in their communication.

10. Violations of any of the conditions in this approval will result in immediate termination of this approval by the Solid Waste Division.

11. Disposal must not have adverse effects upon the landfill proper, nor upon the safe and efficient operation of the landfill.

12. All containers deemed empty and landfilled will conform to the Solid Waste Division's definition of empty.

THERE SHALL BE NO EXCEPTIONS TO THIS POLICY

If you have any questions concerning this approval, please do not hesitate to contact this office at (864) 243-9672.

Sincerely,

Marcia Papin
Solid Waste Manager

cc: File

Greenville County Square 301 University Ridge, Suite 3800 Greenville, S. C. 29601-3660 Telefax (864) 243-5276

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
				WTN 116814

GENERATOR

5. Generator's Name and Mailing Address: Petra-Tech Environmental, 2435 E North Street, Suite 1100-202, Greenville, SC 29615
Generator's Phone: 803-606-2944

Generator's Site Address (if different than mailing address): SCDHEC 2600 Bull St. Columbia, SC (864) 426-6322

6. Transporter 1 Company Name: Petra-Tech ENV, LLC
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: VLS Recovery Services, LLC, 205 S. Main Street, Moulton, SC 29662
Facility's Phone: (864) 962-9953
U.S. EPA ID Number: SCR000762469

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Haz / Non Regulated Well Water # 16374	1	PVC Tank	330	gal
2. Powdersville Q.S. - UST 00483 Decon/Dev/Purge water ~110 gallons				
3. Westside Quick Stop UST 12430 Decon/Dev/Purge water ~135 gallons				
4.				

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Tyler Beaver	[signature]	4	23	18

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Tyler Beaver	[signature]	4	23	18
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year
F. Campbell	[signature]	4	24	18

GC Labels • Printed in the USA
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHWC
913-897-6966

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX C

Not Sampled

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 1	SAMPLE ID:
	DATE: 3/12/18

PURGING DATA

21.69 DTP 26.58 DTW

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
	---	---		---		---		---		---		---		
			Not		Sampled									

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B		---
---	3	AG	40 ml	HCL	---	---	8011		---

REMARKS: Not Sampled. FP Present (4.89')

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

NO Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	2	SAMPLE ID:	12430-MW02
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	30	15 feet to 30 feet	23.82	N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1220	---	---	23.72	---	5.97	---	65	---	1.27	---	13	---	clr	Strong

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1220
PUMP OR TUBING DEPTH IN WELL (feet): –	TUBING MATERIAL CODE: –	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---
~~1~~	1	PE	250ml	HNO3	–	–	6010	B	–

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

NO Purge

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	3	SAMPLE ID:	12430-MW03
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	30	15 feet to 30 feet	26.51	N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1500	---	---	22.17	---	6.27	---	101	---	1.98	---	8	---	Clr	nmc

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1500
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

NO Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 4	SAMPLE ID: 12430-MW04
DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.49	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 25.86	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1410	---	---	22.97	---	6.45	---	95	---	1.80	---	22	---	clr	moderate

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1410
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	13	---
---	3	AG	40 ml	HCL	---	---	8011	13	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 4I	SAMPLE ID: 12430-MW04I	DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 53.17	WELL SCREEN INTERVAL DEPTH: 47 feet to 52 feet	STATIC DEPTH TO WATER (feet): 25.93	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (53.17 feet − 25.93 feet) X 0.16 gallons/foot = 4.35 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1346	---	---	22.17	---	6.17	---	125	---	1.82	---	16	---	clr	Slight
1351	5	5	22.96	.79	6.15	.02	96	29	1.68	.14	147	131	cldy	
1357	3	8	23.71	.75	6.12	.03	90	6	1.24	.44	26	121	clr	
1403	3	11	23.80	.09	6.05	.07	89	1	1.11	.13	17.1	9		
1410	3	14	23.84	.04	6.01	.04	87	2	1.08	.03	12.8	5		
1416	2	16	23.84	—	6.00	.01	85	2	1.06	.02	19.6	7		
1419	2	18	23.83	.01	6.00	—	85	—	1.03	.03	12.1	7		
1425	3	21	23.84	.01	5.99	.01	86	1	1.01	.02	16	2	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1425
PUMP OR TUBING DEPTH IN WELL (feet): ~ 50'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

NO Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 5	SAMPLE ID: 12430-MW05
DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 20.80	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 15.20	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1200	---	---	23.51	---	6.21	---	105	---	2.87	---	16	---	clr	None

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1200
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

NO Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 6	SAMPLE ID: 12430-MW06
	DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 21.47	WELL SCREEN INTERVAL DEPTH: 11 feet to 21 feet	STATIC DEPTH TO WATER (feet): 15.53	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1220	---	---	23.71	---	6.07	---	82	---	2.71	---	10	---	Clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1220
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	13	---
---	3	AG	40 ml	HCL	---	---	8011	13	---
—	1	PE	250ml	HNO3	—	—	6010	13	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

No Purge

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	7	SAMPLE ID:	12430-MW07
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	31.04	20 feet to 30 feet	22.85	N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
0945	---	---	24.61	---	6.83	---	146	---	2.01	---	15	---	Clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	0945

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
–	–		

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

No Purge

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 8	SAMPLE ID: 12430-MW08 DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 31.10	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 25.04	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1015	---	---	23.70	---	6.21	---	80	---	2.71	---	7	---	Clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1615
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

No Purge

SITE NAME: Westside Quick Stop - UST 12430		SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC	
WELL NO: 9	SAMPLE ID: 12430-MW09,	DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.04	WELL SCREEN INTERVAL DEPTH: 19 feet to 29 feet	STATIC DEPTH TO WATER (feet): 25.74	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1035	---	---	24.01	---	6.12	---	149	---	1.67	---	13	---	clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1035
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Not Sampled

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 10	SAMPLE ID:
	DATE:

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.47	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
	---	---		---		---		---		---		---		

Not Sampled

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:

DUPLICATE COLLECTED: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B		---
---	3	AG	40 ml	HCL	---	---	8011		---

REMARKS: Car parked over well. Could not contact owner

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

No Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 11	SAMPLE ID: 12430-MW#1
	DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.83	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 25.70	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1700	---	---	24.68	---	6.29	---	85	---	2.16	---	28	---	clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1700
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: (Y) N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---
—	1	PE	250 ml	HNO3	—	—	6010	B	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 12	SAMPLE ID: 12430-MW12
	DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.69	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 23.41	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH 35.69 feet – STATIC DEPTH TO WATER 23.41 feet) X WELL CAPACITY 0.16 gallons/foot = 1.96 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1031	---	---	24.83	---	6.87	---	146	---	2.01	---	13	---	clr	strong
1036	1	1	23.92	.91	6.43	.44	118	28	1.64	.37	87	74	sl dy	
1042	1	2	23.61	.31	6.32	.11	99	19	1.37	.27	62	25	sl dy	
1045	1	3	23.55	.06	6.21	.11	100	1	1.21	.16	12.1	50	clr	
1051	1	4	23.55	–	6.20	.01	100	–	1.19	.02	90.6	2	clr	
1055	1	5	23.55	–	6.20	–	101	1	1.18	.01	9.8	1	Cw	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1055
PUMP OR TUBING DEPTH IN WELL (feet): 30	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	12I	SAMPLE ID:	12430-MW12I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 45.63	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 23.05	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (45.63 feet – 23.05 feet) X 0.16 gallons/foot = 3.61 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1047	---	---	24.71	---	6.27	---	172	---	3.87	---	16	---	clr	Strong
1053	5	5	23.62	1.09	6.15	.12	132	40	1.99	1.88	145	129	cldy	
1100	3	8	23.61	.01	6.09	.06	112	20	1.77	.22	296	151		
1104	2	10	23.60	.01	6.03	.06	110	2	1.69	.08	72	224	sl dy	
1109	3	13	23.60	—	6.00	.03	107	3	1.65	.04	104	32	sl dy	
1116	3	16	23.61	.01	6.00	—	107	—	1.63	.02	21	83	clr	
1120	2	18	23.60	.01	5.99	.01	107	—	1.61	.02	10	11	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1120
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

No Purge

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	14	SAMPLE ID:	12430-MW14
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	25.57	15 feet to 25 feet	17.75	N/A

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1545	---	---	24.92	---	5.68	---	97	---	2.81	---	12	---		mild

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/12/18	1545
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 14I	SAMPLE ID: 12430-MW14I — DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 67.92	WELL SCREEN INTERVAL DEPTH: 62 feet to 67 feet	STATIC DEPTH TO WATER (feet): 17.93	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (67.92 feet − 17.93 feet) X 0.16 gallons/foot = 7.99 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1503	---	---	23.17	---	6.27	---	146	---	2.47	---	16	---	clr	~~slight~~
1509	5	5	23.62	.45	6.28	.01	75	71	2.91	.06	107	91	cloudy	
1515	6	11	23.97	.35	6.09	.19	76	1	2.94	.03	38	69	clr	
1519	4	15	23.95	.02	6.04	.05	75	1	2.96	.02	16.1	22		
1524	4	19	23.94	.01	6.00	.04	72	3	3.00	.04	14.4	2		
1531	5	24	23.95	.01	6.00	—	72	—	3.00	—	12.6	2		
1535	3	27	23.95	—	6.01	.01	72	—	3.01	.01	9.8	3		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1535
PUMP OR TUBING DEPTH IN WELL (feet): 65	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

No Purge

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 15	SAMPLE ID: 12430-MW15
DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 26.83	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 17.70	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1500	---	---	23.81	---	6.27	---	46	---	2.11	---	9.7	---	clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1500
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	15I	SAMPLE ID:	12430-MW15I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	62.13	56 feet to 61 feet	17.78	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (62.13 feet – 17.78 feet) X 0.16 gallons/foot = 7.09 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1416	---	---	24.16	---	6.27	---	132	---	2.97	---	9.6	---	clr	none
1423	5	5	23.97	.19	6.24	.03	126	6	2.15	.82	14	5	clr	↓
1429	4	9	23.86	.11	6.17	.07	115	11	2.08	.07	62	48	slcldy	
1433	4	13	23.71	.15	6.11	.06	112	3	2.06	.02	21.8	41	cldy	
1441	4	17	23.70	.01	6.08	.03	109	3	2.03	.03	13.7	8	cldy	
1446	3	20	23.70	–	6.09	–	109	2	2.03	–	18.1	5	cldy	
1450	3	23	23.70	–	6.07	.01	107	–	2.01	.02	7.9	11	cldy	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/12/18	1450

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y / N	FILTER SIZE:
60	PE	N	

DUPLICATE COLLECTED: Y / N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

No Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 16	SAMPLE ID: 12430-MW16
DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 27.71	WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet	STATIC DEPTH TO WATER (feet): 18.59	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1415	---	---	22.17	---	5.83	---	72	---	3.16	---	30	---	clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1415
PUMP OR TUBING DEPTH IN WELL (feet): N/A	TUBING MATERIAL CODE: N/A	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	13	---
---	3	AG	40 ml	HCL	---	---	8011	13	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	16I	SAMPLE ID:	12430-MW16I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	65.49	60 feet to 65 feet	18.65	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (65.49 feet – 18.65 feet) X 0.16 gallons/foot = 7.49 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1309	---	---	24.18	---	6.92	---	147	---	3.81	---	6.2	---	clr	none
1327	10	10	23.61	.57	6.62	.30	161	46	3.28	.53	77	71	sldy	
1330	3	13	23.49	.12	6.81	.19	75	26	3.06	.22	61	16	sldy	
1338	4	17	23.48	.01	5.99	.182	68	7	3.01	.05	39	22	clr	
1341	3	20	23.06	.42	5.90	.09	65	3	2.98	.03	26.1	13		
1346	3	23	22.94	.07	5.89	.01	65	—	2.94	.01	13.8	13		
1353	4	28	22.94	—	5.89	—	65	—	2.94	—	12.1	1		
1400	4	32	22.97	.02	5.87	.02	65	—	2.97	.02	9.9	3		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/12/18	1400
PUMP OR TUBING DEPTH IN WELL (feet): 62	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	17	SAMPLE ID:	12430-MW17
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	28.82	18 feet to 28 feet	17.81	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (28.82 feet – 17.81 feet) X 0.16 gallons/foot = 1.76 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
0827	---	---	24.28	---	6.47	---	146	---	2.97	---	13	---	clr	none
0833	1	1	23.68	.60	5.97	.50	120	26	2.09	.88	804	791	cl my	
0841	1	2	23.19	.49	5.89	.08	99	21	2.06	.03	206	598	"	
0846	1	3	23.18	.01	5.89	—	95	4	2.01	.05	21	185	clr	
0852	1	4	23.17	.01	5.86	.03	95	—	2.00	.01	17.8	4	"	
0900	1	5	23.17	—	5.87	.01	97	2	1.99	.01	8.9	9.	"	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	0900
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430		SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC	
WELL NO: 17I	SAMPLE ID: 12430-MW17I	DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 60.41	WELL SCREEN INTERVAL DEPTH: 55 feet to 60 feet	STATIC DEPTH TO WATER (feet): 17.97	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (60.41 feet – 17.97 feet) X 0.16 gallons/foot = 6.79 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
0852	---	---	24.17	---	6.87	---	86	---	5.17	---	8	---	clr	none
0901	6	6	23.84	-.33	6.72	-.15	97	11	4.97	-.20	82	74	sl dy	
0907	4	10	23.36	-.48	6.08	-.64	84	13	4.26	-.71	61	21	sl my	
0911	4	14	23.29	-.07	6.05	-.03	76	8	3.89	-.37	13.6	48	clr	
0918	3	17	23.28	-.01	6.01	-.04	55	21	3.85	-.04	19.7	6	clr	
0923	4	21	23.28	—	5.99	-.02	55	—	3.83	-.02	12.1	7	clr	
0930	4	25	23.28	—	5.98	-.01	52	3	3.82	-.01	9.0	3	clr	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	0930
PUMP OR TUBING DEPTH IN WELL (feet): 58	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

NO Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	18	SAMPLE ID:	12430-MW18
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	29.30	19 feet to 29 feet	20.90	N/A

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1240	---	---	23.11	---	5.68	---	72	---	3.71	---	16.8	---		none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/12/18	1240
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	18I	SAMPLE ID:	12430-MW18I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	65.47	60 feet to 65 feet	19.87	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (65.47 feet − 19.87 feet) X 0.16 gallons/foot = 7.29 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1248	---	---	23.17	---	6.82	---	146	---	2.98	---	6	---	clr	none
1256	5	5	23.06	.11	6.41	.41	107	39	2.71	.27	847	841	clr	
1304	4	9	23.01	.05	6.37	.04	101	6	2.65	.06	326	521	clr	
1311	4	13	23.00	.01	6.26	.11	106	5	2.60	.05	291	35	clr	
1316	3	16	23.01	.01	6.27	.01	104	2	2.61	.01	45	246	clr	
1321	4	20	23.00	.01	6.27	—	103	1	2.60	.01	12.6	33	clr	
1325	3	23	23.00	—	6.28	.01	102	1	2.60	—	9.5	3.	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/12/18	1325
PUMP OR TUBING DEPTH IN WELL (feet): 62	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:
New well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	19	SAMPLE ID:	12430-MW19
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	2	Total Well Depth (feet):	39.69	WELL SCREEN INTERVAL DEPTH:	29 feet to 39 feet	STATIC DEPTH TO WATER (feet):	26.07	PURGE PUMP TYPE OR BAILER:	ESP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (39.69 feet – 26.07 feet) X 0.16 gallons/foot = 2.17 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1501	---	---	23.71	---	6.82	---	183	---	2.77	---	16	---	clr	Strong
1504	1	1	24.51	.80	6.79	.03	162	21	2.46	.31	381	365	clay	↓
1511	1	2	24.59	.08	6.75	.04	112	50	1.99	.47	105	276	clay	
1516	1	3	24.60	.01	6.72	.03	109	3	1.98	.01	22.1	83	clr	
1521	1	4	24.61	.01	6.70	.02	107	2	2.00	.02	16.1	6	clr	
1530	1	5	24.62	.01	6.71	.01	105	2	1.99	.01	9.6	7	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1530

PUMP OR TUBING DEPTH IN WELL (feet): | TUBING MATERIAL CODE: 35 | FIELD-FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE:

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	19I	SAMPLE ID:	12430-MW19I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	70.68	65 feet to 70 feet	25.93	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (70.68 feet – 25.93 feet) X 0.16 gallons/foot = 7.16 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1224	---	---	23.48	---	6.84	---	181	---	6.82	---	9	---	Clr	Strong
1235	5	5	23.71	.23	7.01	.17	136	45	5.11	1.71	608	599	Clay	
1241	4	9	23.86	.15	6.91	.10	126	10	2.71	2.40	105	503		
1249	3	12	23.93	.07	6.82	.09	125	1	2.68	.03	30	75	Clr	
1258	4	16	23.94	.01	6.69	.13	121	4	2.44	.24	13.9	16.1		
1306	2	18	23.96	.02	6.64	.05	120	1	2.44	—	11.1	12.3		
1313	4	22	23.97	.01	6.63	.01	120	—	2.48	.01	12.8	4		
1320	3	25	23.97	—	6.62	.01	120	—	2.47	.01	10	2		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1320
PUMP OR TUBING DEPTH IN WELL (feet): 68	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

Purge

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 20	SAMPLE ID: 12430-MW20
DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 40.87	WELL SCREEN INTERVAL DEPTH: 30 feet to 40 feet	STATIC DEPTH TO WATER (feet): 25.76	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (40.87 feet – 25.76 feet) X 0.16 gallons/foot = 2.41 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1413	---	---	24.17	---	6.92	---	146	---	2.97	---	13	---	clr	Strong
1419	2	2	23.79	.38	5.82	1.10	79	67	1.92	1.05	71	58	sl dy	
1426	1	3	23.77	.02	5.76	.06	75	4	1.88	.04	12.1	59	clr	
1430	1	4	23.71	.06	5.73	.03	75	—	1.89	.01	20.8	8	clr	
1436	1	5	23.69	.02	5.73	—	72	3	1.86	.03	16.1	4	clr	
1440	1	6	23.68	.01	5.71	.02	72	—	1.86	—	9.5	7	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1440
PUMP OR TUBING DEPTH IN WELL (feet): 38	TUBING MATERIAL CODE: ~~HDPE~~ PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 21	SAMPLE ID: 12430-MW21
	DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.14	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 24.54	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.14 feet − 24.54 feet) X 0.16 gallons/foot = 1.64 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1246	---	---	23.70	---	6.87	---	78	---	2.68	---	16	---	clr	Strng
1252	1	1	23.19	.51	6.61	.26	58	20	1.23	1.45	105	89	clay	
1301	1	2	23.15	.04	6.29	.32	50	8	1.19	.04	37	68	clr	
1309	1	3	23.15	—	6.25	.04	50	—	1.19	—	21	16	clr	
1316	1	4	23.13	.02	6.22	.03	49	1	1.17	.02	13.9	8	clr	
1320	1	5	23.14	.01	6.21	.01	49	—	1.16	.01	8.1	5	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1320
PUMP OR TUBING DEPTH IN WELL (feet): 32	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

Purge

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	22	SAMPLE ID:	12430-MW22
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	35.06	25 feet to 35 feet	24.68	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.06 feet – 24.68 feet) X 0.16 gallons/foot = 1.66 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1113	---	---	24.01	---	6.82	---	85	---	2.97	---	14	---	clr	none
1118	1	1	24.04	.03	6.67	.13	69	16	1.97	1.00	201	187	clr	
1122	1	2	23.94	.05	6.68	.01	67	2	1.90	.07	93	108	cl/tn	
1127	1	3	23.97	.02	6.63	.05	65	2	1.84	.01	13.8	80	clr	
1131	1	4	23.98	.01	6.60	.03	65	—	1.84	—	18.1	5	clr	
1135	1	5	23.97	.01	6.61	.01	65	—	1.88	.01	8.4	10	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1135
PUMP OR TUBING DEPTH IN WELL (feet): 33	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	22I	SAMPLE ID:	12430-MW22I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	49.72	44 feet to 49 feet	24.73	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (49.72 feet – 24.73 feet) X 0.16 gallons/foot = 3.99 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1111	---	---	23.71	---	7.27	---	146	---	2.78	---	15	---	clr	none
1116	5	5	23.97	.26	6.51	.76	125	21	2.84	.06	184	169	cldy	
1121	3	8	24.51	.54	6.72	.21	118	7	2.06	.78	92	92		
1127	3	11	24.65	.14	6.74	.02	112	6	1.99	.07	31	61	clr	
1133	4	15	24.64	.01	6.77	.03	102	10	1.92	.07	12.8	59		
1139	3	18	24.65	.01	6.80	.03	100	2	1.89	.03	11.1	4		
1143	3	21	24.67	.02	6.80	—	98	2	1.88	.01	12.0	4		
1150	4	25	24.68	.01	6.81	.01	97	1	1.86	.02	10	2		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1150
PUMP OR TUBING DEPTH IN WELL (feet): 47	TUBING MATERIAL CODE: HDPE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

Purge

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	23	SAMPLE ID:	12430-MW23
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	39.87	29 feet to 39 feet	26.14	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (39.87 feet – 26.14 feet) X 0.16 gallons/foot = 2.19 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1520	---	---	22.17	---	6.07	---	146	---	1.48	---	10	---	clr	none
1531	2	2	23.01	.84	5.99	.08	68	78	1.09	.39	50	40	slclw	
1536	1	3	23.86	.85	5.89	.10	62	6	1.05	.04	61	11	"	
1540	1.5	3.5	23.92	.06	5.87	.02	62	–	1.00	.05	20	41	clr	
1543	1.5	4	23.95	.03	5.85	.02	63	1	1.00	–	13.1	7	clr	
1550	1.5	4.5	23.97	.02	5.84	.01	63	—	1.01	.01	9.0	4	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1550
PUMP OR TUBING DEPTH IN WELL (feet): 37	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 23I	SAMPLE ID: 12430-MW23I	DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 61.69	WELL SCREEN INTERVAL DEPTH: 56 feet to 61 feet	STATIC DEPTH TO WATER (feet): 26.02	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (61.69 feet – 26.02 feet) X 0.16 gallons/foot = 5.70 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1537	---	---	24.61	---	6.11	---	112	---	1.92	---	10	---	Clr	none
1541	5	5	23.29	1.32	5.68	.43	84	28	1.11	.81	26	16	↓	↓
1546	3	8	22.87	.42	5.47	.21	79	5	1.08	.03	199	173	Cldy	↓
1553	3	11	22.88	.01	5.39	.08	75	4	1.02	.06	26	173	Clr	↓
1602	3	14	22.87	.01	5.37	.02	75	—	1.01	.01	11.2	15	↓	↓
1607	3	17	22.86	.01	5.37	—	75	—	1.00	.01	12.1	1	↓	↓
1610	2	19	22.86	—	5.36	.01	78	3	0.99	.01	9.8	3	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/19/18	SAMPLING TIME: 1610
PUMP OR TUBING DEPTH IN WELL (feet): 58	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 24	SAMPLE ID:
	DATE:

PURGING DATA

DTP 23.11 DTW 27.37

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.25	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
	---	---		---		---		---		---		---		

Not Sampled

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT) Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B		---
---	3	AG	40 ml	HCL	---	---	8011		---

REMARKS: Not Sampled. Free Product (4.26')

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

Ruyo

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	25	SAMPLE ID:	12430-MW25
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	38.20	28 feet to 38 feet	25.13	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (38.20 feet – 25.13 feet) X 0.16 gallons/foot = 2.04 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1221	---	---	23.11	---	6.84	---	146	---	2.84	---	12	---	clr	mod
1229	1	1	23.14	.03	6.25	.64	162	44	1.69	1.15	65	53	slwy	
1236	1	2	23.85	.71	6.19	.06	98	4	1.68	.11	78	13		
1243	1	3	23.89	.04	6.14	.05	90	8	1.62	.06	21	57	clr	
1251	1	4	23.89	–	6.12	.02	90	–	1.60	.02	13.9	8	clr	
1255	1	5	23.87	.02	6.11	.01	92	2	1.61	.01	9.2	4.	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1255
PUMP OR TUBING DEPTH IN WELL (feet): 36	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	26	SAMPLE ID:	12430 - MW26
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	36.45	26 feet to 36 feet	24.94	ESP

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (36.45 feet – 24.94 feet) X 0.16 gallons/foot = 1.84 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1306	---	---	23.81	---	6.87	---	78	---	2.97	---	18	---	clr	Slight
1313	2	2	24.38	.57	6.29	.58	48	30	1.61	1.36	296	278	clr	
1318	1	3	24.69	.31	6.24	.05	42	6	1.49	.12	100	196	clr	
1324	1	4	24.71	.02	6.23	.01	42	-	1.48	.03	28	72	clr	
1331	1	5	24.71	-	6.22	.01	43	1	1.45	.01	13.8	14.2	clr	
1335	1	6	24.72	.01	6.21	.01	43	-	1.45	-	9.6	4.	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1335
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	26I	SAMPLE ID:	12430 - MW26I
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	55.11	44 feet to 54 feet	24.91	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (55.11 feet – 24.91 feet) X 0.16 gallons/foot = 4.83 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1316	---	---	23.81	---	6.87	---	146	---	2.81	---	16	---	clr	none
1324	5	5	22.91	.90	6.56	.31	95	51	2.84	.03	349	333	cldy	"
1331	3	8	22.64	.27	6.48	.08	89	6	2.06	.78	271	78	"	"
1339	4	12	22.64	.05	6.43	.05	89	—	1.99	.07	76	195	sl cldy	"
1346	4	16	22.62	.02	6.40	.03	87	2	1.99	—	13	63	clr	"
1352	3	19	22.62	—	6.40	—	87	—	1.98	.01	11	2	"	"
1400	3	22	22.61	.01	6.41	.01	87	—	1.97	.01	9	2	"	"

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1400
PUMP OR TUBING DEPTH IN WELL (feet): 52	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

No Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 27	SAMPLE ID: 12430-MW27
DATE: 3/12/18	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 34.70	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 24.99	PURGE PUMP TYPE OR BAILER: N/A

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
1645	---	---	24.18	---	6.38	---	68	---	2.06	---	21	---	clr	none

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1645
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: 27I	SAMPLE ID: 12430-MW27I — DATE: 3/12/18

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 65.41	WELL SCREEN INTERVAL DEPTH: 60 feet to 65 feet	STATIC DEPTH TO WATER (feet): 25.20	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (65.41 feet − 25.20 feet) X 0.16 gallons/foot = 6.43 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1551	---	---	22.17	---	6.77	---	84	---	2.91	---	9.6	---	clr	none
1558	5	5	23.82	1.65	6.44	.33	76	8	2.84	.07	147	138	cldy	
1603	3	8	23.91	.09	6.45	.01	72	4	2.83	.01	382	235		
1609	4	12	23.90	.01	6.47	.02	72	—	2.77	.06	947	565		
1616	4	16	23.90	—	6.45	.02	70	2	2.71	.06	246	701	cldy	
1619	3	19	23.89	.01	6.43	.02	70	—	2.75	.04	81	165	cldy	
1624	3	22	23.89	—	6.42	.01	70	—	2.77	.02	30	51	clr	
1627	3	25	23.88	.01	6.42	—	70	—	2.75	.12	12.3	18		
1635	4	29	23.89	.01	6.41	.01	70	—	2.75	—	9.6	3		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE: 3/12/18	SAMPLING TIME: 1635
PUMP OR TUBING DEPTH IN WELL (feet): 63	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS: New well

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	28	SAMPLE ID:	12430-MW28
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.91	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 24.20	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.91 feet – 24.20 feet) X 0.16 gallons/foot = 1.87 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
0931	---	---	26.27	---	7.16	---	146	---	2.92	---	12	---	clr	none
0937	2	2	24.38	1.89	6.86	.30	72	74	2.86	.06	61	49	cloudy	
0941	1	3	23.81	.51	6.47	.39	74	2	2.18	.68	84	23		
0945	1	4	23.77	.04	6.42	.05	69	5	2.11	.07	36	48	clr	
0949	1	5	23.79	.02	6.39	.03	68	1	2.09	.02	16.8	20	clr	
0953	.5	5.5	23.79	-	6.39	-	68	-	2.09	-	10.1	6	clr	
1000	.5	6	23.79	-	6.38	.01	68	-	2.08	.01	9.6	1	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1000
PUMP OR TUBING DEPTH IN WELL (feet): 34	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	RW01	SAMPLE ID:	DATE: 3/12/18

PURGING DATA

DTP 23.14 DTW 28.36

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	40.69			

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
	---	---		---		---		---		---		---		
			Not		Sampled									

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB		
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B		---
---	3	AG	40 ml	HCL	---	---	8011		---

REMARKS: Not sampled. FP = 5.22'

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	RW02	SAMPLE ID:	DATE: 3/12/18

PURGING DATA

DTP 13.63 DTW 26.94

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	38.08	17 feet to 37 feet		

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
	---	---		---		---		---		---		---		
			Not											
					Sampled									

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB		
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B		---
---	3	AG	40 ml	HCL	---	---	8011		---

REMARKS: Not Sampled 3.31' FP Present

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

No Purge

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	RW03	SAMPLE ID:	12430-RW03
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
4	40	20 feet to 40 feet	23.57	N/A

WELL VOLUME PURGE: **1 WELL VOLUME** = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1240	---	---	28.16	---	6.97	---	84	---	1.06	---	29	---	Clr	Yes

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/14/18	1240.
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE: —	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	B	---
---	3	AG	40 ml	HCL	---	---	8011	B	---

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: 821 West Parker Road, Greenville, Greenville County, SC
WELL NO: MwX	SAMPLE ID:
DATE: 3/12/18	

PURGING DATA

FP Screen

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.27	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 24.07	PURGE PUMP TYPE OR BAILER: X

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURB IDITY (NTU)	Δ	COLOR	ODOR
	---	---		---		---		---		---		---		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy S. / Tyler Beaver	SAMPLER(S) SIGNATURE(S): JS / TB	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet): —	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B		---
---	3	AG	40 ml	HCL	---	---	8011		---

REMARKS: Not sampled - FP Screen in well.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

Purge

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	821 West Parker Road, Greenville, Greenville County, SC
WELL NO:	MWXR	SAMPLE ID:	12430-MWXR
DATE:	3/12/18		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	38.25	DEPTH: 28 feet to 38 feet	25.06	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (38.25 feet − 25.06 feet) X 0.16 gallons/foot = 2.11 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	Δ	pH (su)	Δ	COND. (µS)	Δ	DO (mg/L)	Δ	TURBIDITY (NTU)	Δ	COLOR	ODOR
1221	---	---	24.61	---	7.16	---	196	---	1.51	---	8	---	clr	none
1228	2	2	24.01	.60	6.84	127	84	112	1.83	.32	36	28		
1236	1	3	23.90	.11	6.85	.04	72	12	1.26	.57	21	15		
1243	1	4	23.99	.19	6.84	.01	65	7	1.11	.15	13.8	8		
1251	1	5	23.97	.02	6.86	.02	60	5	1.02	.09	9.6	4		
1254	1	6	23.94	.01	6.87	.01	60	—	0.99	.03	14.2	5		
1305	1	7	23.94	.02	6.87	—	62	2	0.98	.01	16	4		

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy S. / Tyler Beaver	JS / TB	3/19/18	1305
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: (Y) N	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)		Filtration Equipment Type:	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
---	3	AG	40 ml	HCL	---	---	8260B	ESP	---
---	3	AG	40 ml	HCL	---	---	8011	ESP	---
—	1	PE	250ml	HNO3	—	—	6010	ESP	—

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **PE** = Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX D

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 22, 2018

Trever Slack
Petra-Tech Environmental, LLC
2435 E. North Street
Suite 1108-202
Greenville, SC 29615

RE: Project: Westside Quick Stop
Pace Project No.: 92376875

Dear Trever Slack:
Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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(704)875-9092

CERTIFICATIONS

Project: Westside Quick Stop
Pace Project No.: 92376875

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: Westside Quick Stop
Pace Project No.: 92376875

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92376875001	**12430-MW 15**	Water	03/12/18 15:00	03/14/18 14:15
92376875002	**12430-MW 14I**	Water	03/12/18 15:35	03/14/18 14:15
92376875003	**12430-Dup A**	Water	03/12/18 15:50	03/14/18 14:15
92376875004	**12430-MW 15I**	Water	03/12/18 14:50	03/14/18 14:15
92376875005	**12430-MW 18I**	Water	03/12/18 13:25	03/14/18 14:15
92376875006	**12430-MW 18**	Water	03/12/18 12:40	03/14/18 14:15
92376875007	**12430-MW 27**	Water	03/12/18 16:45	03/14/18 14:15
92376875008	**12430-MW 14**	Water	03/12/18 15:45	03/14/18 14:15
92376875009	**12430-MW 16**	Water	03/12/18 14:15	03/14/18 14:15
92376875010	**12430-MW 16I**	Water	03/12/18 14:00	03/14/18 14:15
92376875011	**12430-MW 05**	Water	03/12/18 12:00	03/14/18 14:15
92376875012	**12430-MW 27I**	Water	03/12/18 16:35	03/14/18 14:15
92376875013	**12430-MW 11**	Water	03/12/18 17:00	03/14/18 14:15
92376875014	**12430-MW 06**	Water	03/12/18 12:20	03/14/18 14:15
92376875015	**FB**	Water	03/12/18 13:30	03/14/18 14:15
92376875016	**Trip Blank**	Water	03/12/18 00:00	03/14/18 14:15

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SAMPLE ANALYTE COUNT

Project: Westside Quick Stop
Pace Project No.: 92376875

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92376875001	**12430-MW 15**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875002	**12430-MW 14I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875003	**12430-Dup A**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875004	**12430-MW 15I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875005	**12430-MW 18I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875006	**12430-MW 18**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875007	**12430-MW 27**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875008	**12430-MW 14**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875009	**12430-MW 16**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875010	**12430-MW 16I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875011	**12430-MW 05**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875012	**12430-MW 27I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875013	**12430-MW 11**	EPA 8011	SEM	2	PASI-C
		EPA 6010	SH1	1	PASI-A
		EPA 8260	GAW	18	PASI-C
92376875014	**12430-MW 06**	EPA 8011	SEM	2	PASI-C
		EPA 6010	SH1	1	PASI-A
		EPA 8260	GAW	18	PASI-C
92376875015	**FB**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92376875016	**Trip Blank**	EPA 8260	GAW	18	PASI-C

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SUMMARY OF DETECTION

Project: Westside Quick Stop
Pace Project No.: 92376875

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92376875002	**12430-MW 14I**					
EPA 8260	Benzene	3.4J	ug/L	5.0	03/15/18 23:14	
92376875003	**12430-Dup A**					
EPA 8260	Benzene	526	ug/L	25.0	03/16/18 04:52	
EPA 8260	Ethylbenzene	59.1	ug/L	25.0	03/16/18 04:52	
EPA 8260	Toluene	535	ug/L	25.0	03/16/18 04:52	
EPA 8260	Xylene (Total)	374	ug/L	25.0	03/16/18 04:52	
92376875008	**12430-MW 14**					
EPA 8260	tert-Amyl Alcohol	1070	ug/L	500	03/16/18 04:34	
EPA 8260	Benzene	520	ug/L	25.0	03/16/18 04:34	
EPA 8260	Ethylbenzene	57.4	ug/L	25.0	03/16/18 04:34	
EPA 8260	Toluene	522	ug/L	25.0	03/16/18 04:34	
EPA 8260	Xylene (Total)	358	ug/L	25.0	03/16/18 04:34	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 15 **Lab ID: 92376875001** Collected: 03/12/18 15:00 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:24	03/20/18 04:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	03/19/18 16:24	03/20/18 04:30	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/15/18 22:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/15/18 22:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/15/18 22:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/15/18 22:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/15/18 22:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/15/18 22:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/15/18 22:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/15/18 22:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/15/18 22:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/15/18 22:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/15/18 22:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/15/18 22:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/15/18 22:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/15/18 22:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/15/18 22:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/15/18 22:39	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/15/18 22:39	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/15/18 22:39	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 14I **Lab ID: 92376875002** Collected: 03/12/18 15:35 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:25	03/22/18 10:47	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	03/22/18 08:25	03/22/18 10:47	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/15/18 23:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/15/18 23:14	994-05-8	
Benzene	**3.4J**	ug/L	5.0	1.7	1		03/15/18 23:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/15/18 23:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/15/18 23:14	75-65-0	M1
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/15/18 23:14	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/15/18 23:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/15/18 23:14	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/15/18 23:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/15/18 23:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/15/18 23:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/15/18 23:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/15/18 23:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/15/18 23:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/15/18 23:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/15/18 23:14	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	70-130		1		03/15/18 23:14	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/15/18 23:14	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-Dup A **Lab ID: 92376875003** Collected: 03/12/18 15:50 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:24	03/20/18 05:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	148	%	60-140		1	03/19/18 16:24	03/20/18 05:35	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	500	384	5		03/16/18 04:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		03/16/18 04:52	994-05-8	
Benzene	**526**	ug/L	25.0	8.5	5		03/16/18 04:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		03/16/18 04:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		03/16/18 04:52	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		03/16/18 04:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		03/16/18 04:52	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		03/16/18 04:52	108-20-3	
Ethanol	ND	ug/L	1000	655	5		03/16/18 04:52	64-17-5	
Ethylbenzene	**59.1**	ug/L	25.0	8.0	5		03/16/18 04:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		03/16/18 04:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		03/16/18 04:52	1634-04-4	
Naphthalene	ND	ug/L	25.0	10.0	5		03/16/18 04:52	91-20-3	
Toluene	**535**	ug/L	25.0	8.0	5		03/16/18 04:52	108-88-3	
Xylene (Total)	**374**	ug/L	25.0	25.0	5		03/16/18 04:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		5		03/16/18 04:52	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		5		03/16/18 04:52	17060-07-0	
Toluene-d8 (S)	99	%	70-130		5		03/16/18 04:52	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 15I **Lab ID: 92376875004** Collected: 03/12/18 14:50 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:25	03/20/18 05:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	149	%	60-140		1	03/19/18 16:25	03/20/18 05:56	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/15/18 23:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/15/18 23:32	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/15/18 23:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/15/18 23:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/15/18 23:32	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/15/18 23:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/15/18 23:32	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/15/18 23:32	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/15/18 23:32	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/15/18 23:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/15/18 23:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/15/18 23:32	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/15/18 23:32	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/15/18 23:32	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/15/18 23:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/15/18 23:32	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/15/18 23:32	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/15/18 23:32	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 18I **Lab ID: 92376875005** Collected: 03/12/18 13:25 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:25	03/20/18 06:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	138	%	60-140		1	03/19/18 16:25	03/20/18 06:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 12:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 12:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 12:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 12:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 12:38	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 12:38	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 12:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 12:38	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 12:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 12:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 12:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 12:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 12:38	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 12:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 12:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		03/16/18 12:38	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/16/18 12:38	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/16/18 12:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 18 **Lab ID: 92376875006** Collected: 03/12/18 12:40 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:25	03/20/18 06:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	109	%	60-140		1	03/19/18 16:25	03/20/18 06:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/15/18 23:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/15/18 23:50	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/15/18 23:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/15/18 23:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/15/18 23:50	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/15/18 23:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/15/18 23:50	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/15/18 23:50	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/15/18 23:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/15/18 23:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/15/18 23:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/15/18 23:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/15/18 23:50	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/15/18 23:50	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/15/18 23:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/15/18 23:50	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/15/18 23:50	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/15/18 23:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 27 **Lab ID: 92376875007** Collected: 03/12/18 16:45 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:25	03/20/18 07:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	03/19/18 16:25	03/20/18 07:01	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 00:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 00:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 00:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 00:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 00:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 00:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 00:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 00:07	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 00:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 00:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 00:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 00:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 00:07	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 00:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 00:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/16/18 00:07	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/16/18 00:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/16/18 00:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 14 **Lab ID: 92376875008** Collected: 03/12/18 15:45 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/19/18 16:25	03/20/18 07:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	130	%	60-140		1	03/19/18 16:25	03/20/18 07:23	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1070**	ug/L	500	384	5		03/16/18 04:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		03/16/18 04:34	994-05-8	
Benzene	**520**	ug/L	25.0	8.5	5		03/16/18 04:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		03/16/18 04:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		03/16/18 04:34	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		03/16/18 04:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		03/16/18 04:34	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		03/16/18 04:34	108-20-3	
Ethanol	ND	ug/L	1000	655	5		03/16/18 04:34	64-17-5	
Ethylbenzene	**57.4**	ug/L	25.0	8.0	5		03/16/18 04:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		03/16/18 04:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		03/16/18 04:34	1634-04-4	
Naphthalene	ND	ug/L	25.0	10.0	5		03/16/18 04:34	91-20-3	
Toluene	**522**	ug/L	25.0	8.0	5		03/16/18 04:34	108-88-3	
Xylene (Total)	**358**	ug/L	25.0	25.0	5		03/16/18 04:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		5		03/16/18 04:34	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	70-130		5		03/16/18 04:34	17060-07-0	
Toluene-d8 (S)	99	%	70-130		5		03/16/18 04:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 16 **Lab ID: 92376875009** Collected: 03/12/18 14:15 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:26	03/22/18 11:08	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	03/22/18 08:26	03/22/18 11:08	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 00:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 00:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 00:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 00:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 00:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 00:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 00:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 00:25	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 00:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 00:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 00:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 00:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 00:25	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 00:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 00:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		03/16/18 00:25	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/16/18 00:25	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/16/18 00:25	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 16I **Lab ID: 92376875010** Collected: 03/12/18 14:00 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:26	03/22/18 11:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	03/22/18 08:26	03/22/18 11:29	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 00:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 00:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 00:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 00:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 00:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 00:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 00:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 00:43	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 00:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 00:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 00:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 00:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 00:43	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 00:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 00:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/16/18 00:43	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/16/18 00:43	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/16/18 00:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 05 **Lab ID: 92376875011** Collected: 03/12/18 12:00 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:26	03/22/18 11:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/22/18 08:26	03/22/18 11:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 01:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 01:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 01:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 01:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 01:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 01:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 01:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 01:01	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 01:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 01:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 01:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 01:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 01:01	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 01:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 01:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		03/16/18 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		1		03/16/18 01:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		03/16/18 01:01	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 27I **Lab ID: 92376875012** Collected: 03/12/18 16:35 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:26	03/22/18 12:11	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	189	%	60-140		1	03/22/18 08:26	03/22/18 12:11	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 01:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 01:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 01:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 01:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 01:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 01:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 01:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 01:36	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 01:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 01:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 01:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 01:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 01:36	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 01:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 01:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		03/16/18 01:36	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/16/18 01:36	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		03/16/18 01:36	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 11 **Lab ID: 92376875013** Collected: 03/12/18 17:00 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:26	03/22/18 12:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	105	%	60-140		1	03/22/18 08:26	03/22/18 12:32	301-79-56	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	2.5	1	03/15/18 13:42	03/16/18 17:17	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 01:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 01:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 01:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 01:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 01:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 01:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 01:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 01:18	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 01:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 01:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 01:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 01:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 01:18	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 01:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 01:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/16/18 01:18	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/16/18 01:18	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/16/18 01:18	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: 12430-MW 06 **Lab ID: 92376875014** Collected: 03/12/18 12:20 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/21/18 09:32	03/21/18 13:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	03/21/18 09:32	03/21/18 13:43	301-79-56	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	2.5	1	03/15/18 13:42	03/16/18 17:26	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 12:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 12:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 12:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 12:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 12:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 12:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 12:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 12:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 12:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 12:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 12:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 12:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 12:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 12:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 12:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		03/16/18 12:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/16/18 12:56	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/16/18 12:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: FB **Lab ID: 92376875015** Collected: 03/12/18 13:30 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/22/18 08:26	03/22/18 12:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/22/18 08:26	03/22/18 12:53	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 10:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 10:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 10:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 10:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 10:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 10:52	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 10:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 10:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 10:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 10:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 10:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 10:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 10:52	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 10:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 10:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/16/18 10:52	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		1		03/16/18 10:52	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/16/18 10:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92376875

Sample: Trip Blank **Lab ID: 92376875016** Collected: 03/12/18 00:00 Received: 03/14/18 14:15 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/16/18 11:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/16/18 11:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/16/18 11:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/16/18 11:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/16/18 11:10	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/16/18 11:10	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/16/18 11:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/16/18 11:10	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/16/18 11:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/16/18 11:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/16/18 11:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/16/18 11:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/16/18 11:10	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/16/18 11:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/16/18 11:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/16/18 11:10	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		1		03/16/18 11:10	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/16/18 11:10	2037-26-5	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

QC Batch: 402128 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered Diss.
Associated Lab Samples: 92376875013, 92376875014

METHOD BLANK: 2230403 Matrix: Water
Associated Lab Samples: 92376875013, 92376875014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	5.0	2.5	03/16/18 17:12	

LABORATORY CONTROL SAMPLE: 2230404

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	458	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2230405 2230406

Parameter	Units	92376875013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	ND	500	500	451	450	90	90	75-125	0	20	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

QC Batch: 402164 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92376875001, 92376875002, 92376875003, 92376875004, 92376875006, 92376875007, 92376875008, 92376875009, 92376875010, 92376875011, 92376875012, 92376875013

METHOD BLANK: 2230674 Matrix: Water
Associated Lab Samples: 92376875001, 92376875002, 92376875003, 92376875004, 92376875006, 92376875007, 92376875008, 92376875009, 92376875010, 92376875011, 92376875012, 92376875013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/15/18 21:45	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/15/18 21:45	
Benzene	ug/L	ND	5.0	1.7	03/15/18 21:45	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/15/18 21:45	
Ethanol	ug/L	ND	200	131	03/15/18 21:45	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/15/18 21:45	
Ethylbenzene	ug/L	ND	5.0	1.6	03/15/18 21:45	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/15/18 21:45	
Naphthalene	ug/L	ND	5.0	2.0	03/15/18 21:45	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/15/18 21:45	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/15/18 21:45	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/15/18 21:45	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/15/18 21:45	
Toluene	ug/L	ND	5.0	1.6	03/15/18 21:45	
Xylene (Total)	ug/L	ND	5.0	5.0	03/15/18 21:45	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/15/18 21:45	
4-Bromofluorobenzene (S)	%	97	70-130		03/15/18 21:45	
Toluene-d8 (S)	%	100	70-130		03/15/18 21:45	

LABORATORY CONTROL SAMPLE: 2230675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	50.6	101	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1170	117	70-130	
Benzene	ug/L	50	52.6	105	70-130	
Diisopropyl ether	ug/L	50	41.3	83	70-130	
Ethanol	ug/L	2000	1920	96	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.0	97	70-130	
Ethylbenzene	ug/L	50	57.2	114	70-130	
Methyl-tert-butyl ether	ug/L	50	49.5	99	70-130	
Naphthalene	ug/L	50	56.7	113	70-130	
tert-Amyl Alcohol	ug/L	1000	1160	116	70-130	
tert-Amylmethyl ether	ug/L	100	108	108	70-130	
tert-Butyl Alcohol	ug/L	500	513	103	70-130	
tert-Butyl Formate	ug/L	400	392	98	70-130	
Toluene	ug/L	50	50.5	101	70-130	
Xylene (Total)	ug/L	150	171	114	70-130	
1,2-Dichloroethane-d4 (S)	%			108	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

LABORATORY CONTROL SAMPLE: 2230675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE SAMPLE: 2230677

Parameter	Units	92376875002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	21.9	109	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	406	101	70-130	
Benzene	ug/L	3.4J	20	26.8	117	70-130	
Diisopropyl ether	ug/L	ND	20	17.3	85	70-130	
Ethanol	ug/L	ND	800	813	102	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	37.9	95	70-130	
Ethylbenzene	ug/L	ND	20	24.1	121	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	19.0	95	70-130	
Naphthalene	ug/L	ND	20	20.8	104	70-130	
tert-Amyl Alcohol	ug/L	ND	400	420	99	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.6	104	70-130	
tert-Butyl Alcohol	ug/L	ND	200	277	138	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	22.1	108	70-130	
Xylene (Total)	ug/L	ND	60	71.6	119	70-130	
1,2-Dichloroethane-d4 (S)	%				110	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 2230676

Parameter	Units	92376875001 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	102	100	2		

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(704)875-9092

QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

SAMPLE DUPLICATE: 2230676

Parameter	Units	92376875001 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	96	97	1		
Toluene-d8 (S)	%	105	101	5		

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

QC Batch: 402281 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92376875005, 92376875014, 92376875015, 92376875016

METHOD BLANK: 2231327 Matrix: Water
Associated Lab Samples: 92376875005, 92376875014, 92376875015, 92376875016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/16/18 09:59	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/16/18 09:59	
Benzene	ug/L	ND	5.0	1.7	03/16/18 09:59	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/16/18 09:59	
Ethanol	ug/L	ND	200	131	03/16/18 09:59	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/16/18 09:59	
Ethylbenzene	ug/L	ND	5.0	1.6	03/16/18 09:59	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/16/18 09:59	
Naphthalene	ug/L	ND	5.0	2.0	03/16/18 09:59	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/16/18 09:59	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/16/18 09:59	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/16/18 09:59	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/16/18 09:59	
Toluene	ug/L	ND	5.0	1.6	03/16/18 09:59	
Xylene (Total)	ug/L	ND	5.0	5.0	03/16/18 09:59	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/16/18 09:59	
4-Bromofluorobenzene (S)	%	99	70-130		03/16/18 09:59	
Toluene-d8 (S)	%	101	70-130		03/16/18 09:59	

LABORATORY CONTROL SAMPLE: 2231328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	987	99	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	40.6	81	70-130	
Ethanol	ug/L	2000	1790	89	70-130	
Ethyl-tert-butyl ether	ug/L	100	95.1	95	70-130	
Ethylbenzene	ug/L	50	56.3	113	70-130	
Methyl-tert-butyl ether	ug/L	50	48.8	98	70-130	
Naphthalene	ug/L	50	51.9	104	70-130	
tert-Amyl Alcohol	ug/L	1000	963	96	70-130	
tert-Amylmethyl ether	ug/L	100	100	100	70-130	
tert-Butyl Alcohol	ug/L	500	448	90	70-130	
tert-Butyl Formate	ug/L	400	389	97	70-130	
Toluene	ug/L	50	48.1	96	70-130	
Xylene (Total)	ug/L	150	169	112	70-130	
1,2-Dichloroethane-d4 (S)	%			109	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			95	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2231329 2231330

Parameter	Units	92376995002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	2000	2000	2100	2100	105	105	70-130	0	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	40000	37900	40900	95	102	70-130	8	30	
Benzene	ug/L	14600	2000	2000	16500	16200	94	77	70-130	2	30	
Diisopropyl ether	ug/L	183J	2000	2000	1840	1840	83	83	70-130	0	30	
Ethanol	ug/L	ND	80000	80000	75300	78500	94	98	70-130	4	30	
Ethyl-tert-butyl ether	ug/L	ND	4000	4000	3630	3620	91	91	70-130	0	30	
Ethylbenzene	ug/L	1750	2000	2000	4200	4200	122	122	70-130	0	30	
Methyl-tert-butyl ether	ug/L	ND	2000	2000	1960	1940	98	97	70-130	1	30	
Naphthalene	ug/L	813	2000	2000	2820	3090	100	114	70-130	9	30	
tert-Amyl Alcohol	ug/L	ND	40000	40000	45500	47900	97	103	70-130	5	30	
tert-Amylmethyl ether	ug/L	ND	4000	4000	4040	4150	101	104	70-130	3	30	
tert-Butyl Alcohol	ug/L	ND	20000	20000	19100	20100	95	100	70-130	5	30	
tert-Butyl Formate	ug/L	ND	16000	16000	11400	11400	71	71	70-130	0	30	
Toluene	ug/L	3760	2000	2000	5810	5640	103	94	70-130	3	30	
Xylene (Total)	ug/L	6490	6000	6000	13800	13900	122	123	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						108	106	70-130			
4-Bromofluorobenzene (S)	%						100	99	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

QC Batch: 402539 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92376875001, 92376875003, 92376875004, 92376875005, 92376875006, 92376875007, 92376875008

METHOD BLANK: 2232658 Matrix: Water
Associated Lab Samples: 92376875001, 92376875003, 92376875004, 92376875005, 92376875006, 92376875007, 92376875008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/19/18 22:25	
1-Chloro-2-bromopropane (S)	%	109	60-140		03/19/18 22:25	

LABORATORY CONTROL SAMPLE & LCSD: 2232659 2232660

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.27	0.26	107	105	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				110	109	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2232661 2232662

Parameter	Units	92376730036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.26	0.26	107	107	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						110	107	60-140			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

QC Batch: 402842 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92376875014

METHOD BLANK: 2234603 Matrix: Water
Associated Lab Samples: 92376875014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	03/21/18 10:21	
1-Chloro-2-bromopropane (S)	%	128	60-140		03/21/18 10:21	

LABORATORY CONTROL SAMPLE & LCSD: 2234604 2234605

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.20	0.28	80	117	60-140	35	20	R1
1-Chloro-2-bromopropane (S)	%				109	127	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2234606 2234607

Parameter	Units	92376730005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	8.0	.24	.24	5.5	5.4	-1000	-1030	60-140	1	20	M1
1-Chloro-2-bromopropane (S)	%						121	127	60-140			

SAMPLE DUPLICATE: 2234608

Parameter	Units	92376730029 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	112	122	5		

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92376875

QC Batch: 403042 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92376875002, 92376875009, 92376875010, 92376875011, 92376875012, 92376875013, 92376875015

METHOD BLANK: 2235730 Matrix: Water
Associated Lab Samples: 92376875002, 92376875009, 92376875010, 92376875011, 92376875012, 92376875013, 92376875015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.019	0.019	03/22/18 09:01	
1-Chloro-2-bromopropane (S)	%	139	60-140		03/22/18 09:01	

LABORATORY CONTROL SAMPLE & LCSD: 2235731 2235752

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.26	0.24	107	101	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				115	110	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2235732 2235733

Parameter	Units	92376995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	63.9	.24	.24	21.8	22.0	-17400	-17300	60-140	1	20	
1-Chloro-2-bromopropane (S)	%						144	145	60-140			S0

SAMPLE DUPLICATE: 2235734

Parameter	Units	92376995004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.028	0.028	0	20	
1-Chloro-2-bromopropane (S)	%	115	115	0		

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QUALIFIERS

Project: Westside Quick Stop
Pace Project No.: 92376875

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S0	Surrogate recovery outside laboratory control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Westside Quick Stop
Pace Project No.: 92376875

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92376875001	**12430-MW 15**	EPA 8011	402539	EPA 8011	402594
92376875002	**12430-MW 14I**	EPA 8011	403042	EPA 8011	403053
92376875003	**12430-Dup A**	EPA 8011	402539	EPA 8011	402594
92376875004	**12430-MW 15I**	EPA 8011	402539	EPA 8011	402594
92376875005	**12430-MW 18I**	EPA 8011	402539	EPA 8011	402594
92376875006	**12430-MW 18**	EPA 8011	402539	EPA 8011	402594
92376875007	**12430-MW 27**	EPA 8011	402539	EPA 8011	402594
92376875008	**12430-MW 14**	EPA 8011	402539	EPA 8011	402594
92376875009	**12430-MW 16**	EPA 8011	403042	EPA 8011	403053
92376875010	**12430-MW 16I**	EPA 8011	403042	EPA 8011	403053
92376875011	**12430-MW 05**	EPA 8011	403042	EPA 8011	403053
92376875012	**12430-MW 27I**	EPA 8011	403042	EPA 8011	403053
92376875013	**12430-MW 11**	EPA 8011	403042	EPA 8011	403053
92376875014	**12430-MW 06**	EPA 8011	402842	EPA 8011	402865
92376875015	**FB**	EPA 8011	403042	EPA 8011	403053
92376875013	**12430-MW 11**	EPA 3010	402128	EPA 6010	402160
92376875014	**12430-MW 06**	EPA 3010	402128	EPA 6010	402160
92376875001	**12430-MW 15**	EPA 8260	402164		
92376875002	**12430-MW 14I**	EPA 8260	402164		
92376875003	**12430-Dup A**	EPA 8260	402164		
92376875004	**12430-MW 15I**	EPA 8260	402164		
92376875005	**12430-MW 18I**	EPA 8260	402281		
92376875006	**12430-MW 18**	EPA 8260	402164		
92376875007	**12430-MW 27**	EPA 8260	402164		
92376875008	**12430-MW 14**	EPA 8260	402164		
92376875009	**12430-MW 16**	EPA 8260	402164		
92376875010	**12430-MW 16I**	EPA 8260	402164		
92376875011	**12430-MW 05**	EPA 8260	402164		
92376875012	**12430-MW 27I**	EPA 8260	402164		
92376875013	**12430-MW 11**	EPA 8260	402164		
92376875014	**12430-MW 06**	EPA 8260	402281		
92376875015	**FB**	EPA 8260	402281		
92376875016	**Trip Blank**	EPA 8260	402281		

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Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2 1of 3
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

WO#: 92376875

92376875

Client Name: Petra-Tech Enviro. Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☑ No

Date/Initials Person Examining Contents: 3/14/18 AL

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: T027

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 4.3 Correction Factor: Add/Subtract (°C) 0

Cooler Temp Corrected (°C): 4.3

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (Internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☐ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: (TP) Date: 3/14

Project Manager SRF Review: (TP) Date: 3/14

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page ~~1 of 2~~ 3 of 3
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Project # **WO#: 92376875**

PM: PTE Due Date: 03/21/18

CLIENT: 92-Petra-Tec

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acerate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH >12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																4												
2							2									6												
3							2									6												
4																4												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, Incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 1

2184241

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Petra-Tech Env	Report To:	Attention:
Address: 2435 E. N. St, Ste 1108-202 Greenville, SC	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Westside Quick Stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number: J17-528-B	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260B BTEX+MTN	+1,2DCA+8oxy	8011 EDB	6010 Dissolved Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92376875
1	12430 - MW15			3/12/18			1500												X		X			001
2	Trip Blank			—	—	—	—												X					016
3	12430 - MW14I			3/12/18			1535												X		X			002
4	Dup A			3/12/18			1550												X		X			003
5	12430 - MW15I			3/12/18			1450												X		X			004
6	12430 - MW18I			3/12/18			1325												X		X			005
7	12430 - MW18			3/12/18			1240												X		X			006
8	12430 - MW27			3/12/18			1645												X		X			007
9	12430 - MW14			3/12/18			1545												X		X			008
10	12430 - MW16			3/12/18			1415												X		X			009
11	12430 - MW16I			3/12/18			1400												X		X			010
12	12430 - ~~MW3~~ MW05			3/12/18			1200												X		X			011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3-14-18	1300	[signature]	3-14-18	1300				
	[signature]	3-14-18	1415	A. Wilson/Pan	3/14/18	1415	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 2

2184192

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Petro-Tech Env	Report To:	Attention:
Address	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: Fax:	Project Name: Westside Quick Stop	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER

Site Location STATE:

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE
Drinking Water DW
Water WT
Waste Water WW
Product P
Soil/Solid SL
Oil CL
Wipe WP
Air AR
Tissue TS
Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: 8260B BTEX+MTBE	1,2DCA+EDB	8011 EDB	Dissolved Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92376875
1	12430-MW27I			3/12/18			1635											X		X			012
2	12430-MW11			3/12/18			1700											X		X	X		013
3	12430-MW06			3/12/18			1220											X		X	X		014
4	FB			3/12/18			1330											X		X			015
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		3-14-18	1300	Stu Bell	3-14-18	1300				
		3-14-18	1415	A. Wilson/Pace	3/14/18	1415	4.3	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 28, 2018

Trever Slack
Petra-Tech Environmental, LLC
2435 E. North Street
Suite 1108-202
Greenville, SC 29615

RE: Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Dear Trever Slack:
Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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CERTIFICATIONS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

Asheville Certification IDs

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

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SAMPLE SUMMARY

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92377819001	**MW-02**	Water	03/19/18 12:20	03/21/18 13:00
92377819002	**MW-XR**	Water	03/19/18 13:05	03/21/18 13:00
92377819003	**DUP**	Water	03/19/18 12:30	03/21/18 13:00
92377819004	**MW-03**	Water	03/19/18 15:00	03/21/18 13:00
92377819005	**MW-04**	Water	03/19/18 14:10	03/21/18 13:00
92377819006	**MW-04I**	Water	03/19/18 14:25	03/21/18 13:00
92377819007	**MW-07**	Water	03/19/18 09:45	03/21/18 13:00
92377819008	**MW-08**	Water	03/19/18 10:15	03/21/18 13:00
92377819009	**MW-09**	Water	03/19/18 10:35	03/21/18 13:00
92377819010	**MW-12**	Water	03/19/18 10:55	03/21/18 13:00
92377819011	**MW-12I**	Water	03/19/18 11:20	03/21/18 13:00
92377819012	**MW-17**	Water	03/19/18 09:00	03/21/18 13:00
92377819013	**MW-17I**	Water	03/19/18 09:30	03/21/18 13:00
92377819014	**MW-19**	Water	03/19/18 15:30	03/21/18 13:00
92377819015	**MW-19I**	Water	03/19/18 13:20	03/21/18 13:00
92377819016	**MW-20**	Water	03/19/18 14:40	03/21/18 13:00
92377819017	**MW-21**	Water	03/19/18 13:20	03/21/18 13:00
92377819018	**MW-22**	Water	03/19/18 11:35	03/21/18 13:00
92377819019	**MW-22I**	Water	03/19/18 11:50	03/21/18 13:00
92377819020	**MW-23**	Water	03/19/18 15:50	03/21/18 13:00
92377819021	**MW-23I**	Water	03/19/18 16:10	03/21/18 13:00
92377819022	**MW-25**	Water	03/19/18 12:55	03/21/18 13:00
92377819023	**MW-26**	Water	03/19/18 13:35	03/21/18 13:00
92377819024	**MW-26I**	Water	03/19/18 14:00	03/21/18 13:00
92377819025	**MW-28**	Water	03/19/18 10:00	03/21/18 13:00
92377819026	**FIELD BLANK**	Water	03/19/18 08:50	03/21/18 13:00
92377819027	**RW-03**	Water	03/19/18 12:40	03/21/18 13:00
92377819028	**TRIP BLANK C1**	Water	03/19/18 00:00	03/21/18 13:00
92377819029	**TRIP BLANK C2**	Water	03/19/18 00:00	03/21/18 13:00

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SAMPLE ANALYTE COUNT

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92377819001	**MW-02**	EPA 8011	SEM	2	PASI-C
		EPA 6010	SH1	1	PASI-A
		EPA 8260	GAW	18	PASI-C
92377819002	**MW-XR**	EPA 8011	SEM	2	PASI-C
		EPA 6010	SH1	1	PASI-A
		EPA 8260	GAW	18	PASI-C
92377819003	**DUP**	EPA 8011	SEM	2	PASI-C
		EPA 6010	SH1	1	PASI-A
		EPA 8260	GAW	18	PASI-C
92377819004	**MW-03**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819005	**MW-04**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819006	**MW-04I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819007	**MW-07**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819008	**MW-08**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819009	**MW-09**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819010	**MW-12**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819011	**MW-12I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819012	**MW-17**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819013	**MW-17I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819014	**MW-19**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819015	**MW-19I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819016	**MW-20**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819017	**MW-21**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C

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SAMPLE ANALYTE COUNT

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92377819018	**MW-22**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819019	**MW-22I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819020	**MW-23**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819021	**MW-23I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819022	**MW-25**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819023	**MW-26**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819024	**MW-26I**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819025	**MW-28**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819026	**FIELD BLANK**	EPA 8011	SEM	2	PASI-C
		EPA 8260	GAW	18	PASI-C
92377819027	**RW-03**	EPA 8260	GAW	18	PASI-C
92377819028	**TRIP BLANK C1**	EPA 8260	GAW	18	PASI-C
92377819029	**TRIP BLANK C2**	EPA 8260	GAW	18	PASI-C

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SUMMARY OF DETECTION

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92377819001	**MW-02**					
EPA 8260	tert-Amyl Alcohol	1240	ug/L	500	03/27/18 13:43	
EPA 8260	Benzene	545	ug/L	25.0	03/27/18 13:43	
EPA 8260	Ethylbenzene	134	ug/L	25.0	03/27/18 13:43	
EPA 8260	Toluene	710	ug/L	25.0	03/27/18 13:43	
EPA 8260	Xylene (Total)	924	ug/L	25.0	03/27/18 13:43	
92377819002	**MW-XR**					
EPA 8260	Diisopropyl ether	2.1J	ug/L	5.0	03/27/18 12:53	
EPA 8260	Methyl-tert-butyl ether	30.8	ug/L	5.0	03/27/18 12:53	
92377819003	**DUP**					
EPA 8260	tert-Amyl Alcohol	1020	ug/L	500	03/27/18 14:00	
EPA 8260	Benzene	570	ug/L	25.0	03/27/18 14:00	
EPA 8260	Ethylbenzene	108	ug/L	25.0	03/27/18 14:00	
EPA 8260	Toluene	494	ug/L	25.0	03/27/18 14:00	
EPA 8260	Xylene (Total)	817	ug/L	25.0	03/27/18 14:00	
92377819005	**MW-04**					
EPA 8260	Benzene	241	ug/L	10.0	03/28/18 10:31	
EPA 8260	Diisopropyl ether	12.5	ug/L	10.0	03/28/18 10:31	
EPA 8260	Toluene	11.3	ug/L	10.0	03/28/18 10:31	
EPA 8260	Xylene (Total)	346	ug/L	10.0	03/28/18 10:31	
92377819010	**MW-12**					
EPA 8260	tert-Amyl Alcohol	3490	ug/L	2500	03/24/18 16:32	
EPA 8260	Benzene	1930	ug/L	125	03/24/18 16:32	
EPA 8260	Ethylbenzene	383	ug/L	125	03/24/18 16:32	
EPA 8260	Toluene	2840	ug/L	125	03/24/18 16:32	
EPA 8260	Xylene (Total)	1380	ug/L	125	03/24/18 16:32	
92377819011	**MW-12I**					
EPA 8260	tert-Amyl Alcohol	3830	ug/L	2000	03/24/18 16:50	
EPA 8260	Benzene	1440	ug/L	100	03/24/18 16:50	
EPA 8260	Ethylbenzene	231	ug/L	100	03/24/18 16:50	
EPA 8260	Naphthalene	41.8J	ug/L	100	03/24/18 16:50	
EPA 8260	Toluene	2880	ug/L	100	03/24/18 16:50	
EPA 8260	Xylene (Total)	1570	ug/L	100	03/24/18 16:50	
92377819014	**MW-19**					
EPA 8260	tert-Amyl Alcohol	909	ug/L	400	03/26/18 17:37	
EPA 8260	Benzene	381	ug/L	20.0	03/26/18 17:37	
EPA 8260	1,2-Dichloroethane	8.8J	ug/L	20.0	03/26/18 17:37	
EPA 8260	Diisopropyl ether	26.0	ug/L	20.0	03/26/18 17:37	
EPA 8260	Methyl-tert-butyl ether	45.6	ug/L	20.0	03/26/18 17:37	
EPA 8260	Naphthalene	9.6J	ug/L	20.0	03/26/18 17:37	
92377819015	**MW-19I**					
EPA 8011	1,2-Dibromoethane (EDB)	0.023	ug/L	0.020	03/24/18 05:26	
EPA 8260	tert-Amyl Alcohol	10400	ug/L	2500	03/26/18 17:54	
EPA 8260	Benzene	4840	ug/L	125	03/26/18 17:54	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92377819015	**MW-19I**					
EPA 8260	Diisopropyl ether	395	ug/L	125	03/26/18 17:54	
EPA 8260	Ethylbenzene	68.5J	ug/L	125	03/26/18 17:54	
EPA 8260	Methyl-tert-butyl ether	291	ug/L	125	03/26/18 17:54	
EPA 8260	Naphthalene	125	ug/L	125	03/26/18 17:54	
EPA 8260	Toluene	67.5J	ug/L	125	03/26/18 17:54	
92377819016	**MW-20**					
EPA 8011	1,2-Dibromoethane (EDB)	0.062	ug/L	0.020	03/24/18 05:44	
EPA 8260	tert-Amyl Alcohol	3740	ug/L	1250	03/27/18 14:34	
EPA 8260	Benzene	1620	ug/L	62.5	03/27/18 14:34	
EPA 8260	Diisopropyl ether	73.7	ug/L	62.5	03/27/18 14:34	
EPA 8260	Ethylbenzene	68.0	ug/L	62.5	03/27/18 14:34	
EPA 8260	Toluene	1100	ug/L	62.5	03/27/18 14:34	
EPA 8260	Xylene (Total)	707	ug/L	62.5	03/27/18 14:34	
92377819017	**MW-21**					
EPA 8011	1,2-Dibromoethane (EDB)	0.16	ug/L	0.020	03/24/18 06:01	
EPA 8260	tert-Amyl Alcohol	4530	ug/L	2000	03/24/18 22:44	
EPA 8260	Benzene	3230	ug/L	100	03/24/18 22:44	
EPA 8260	Diisopropyl ether	329	ug/L	100	03/24/18 22:44	
EPA 8260	Ethylbenzene	197	ug/L	100	03/24/18 22:44	
EPA 8260	Methyl-tert-butyl ether	732	ug/L	100	03/24/18 22:44	
EPA 8260	Naphthalene	404	ug/L	100	03/24/18 22:44	
EPA 8260	Toluene	487	ug/L	100	03/24/18 22:44	
EPA 8260	Xylene (Total)	3660	ug/L	100	03/24/18 22:44	
92377819022	**MW-25**					
EPA 8260	tert-Amyl Alcohol	390	ug/L	200	03/26/18 18:11	
EPA 8260	Benzene	166	ug/L	10.0	03/26/18 18:11	
EPA 8260	Diisopropyl ether	4.2J	ug/L	10.0	03/26/18 18:11	
EPA 8260	Methyl-tert-butyl ether	11.8	ug/L	10.0	03/26/18 18:11	
EPA 8260	Toluene	42.4	ug/L	10.0	03/26/18 18:11	
EPA 8260	Xylene (Total)	56.6	ug/L	10.0	03/26/18 18:11	
92377819023	**MW-26**					
EPA 8011	1,2-Dibromoethane (EDB)	0.056	ug/L	0.019	03/24/18 08:07	
EPA 8260	Benzene	15.2	ug/L	5.0	03/22/18 21:19	
EPA 8260	Diisopropyl ether	2.7J	ug/L	5.0	03/22/18 21:19	
EPA 8260	Xylene (Total)	14.0	ug/L	5.0	03/22/18 21:19	
92377819027	**RW-03**					
EPA 8260	Benzene	5770	ug/L	500	03/24/18 20:58	
EPA 8260	Ethylbenzene	2040	ug/L	500	03/24/18 20:58	
EPA 8260	Methyl-tert-butyl ether	205J	ug/L	500	03/24/18 20:58	
EPA 8260	Naphthalene	261J	ug/L	500	03/24/18 20:58	
EPA 8260	Toluene	15400	ug/L	500	03/24/18 20:58	M1
EPA 8260	Xylene (Total)	12100	ug/L	500	03/24/18 20:58	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-02 **Lab ID: 92377819001** Collected: 03/19/18 12:20 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:40	03/24/18 13:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	161	%	60-140		1	03/23/18 16:40	03/24/18 13:33	301-79-56	S3
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	2.5	1	03/22/18 05:48	03/23/18 05:00	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1240**	ug/L	500	384	5		03/27/18 13:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		03/27/18 13:43	994-05-8	
Benzene	**545**	ug/L	25.0	8.5	5		03/27/18 13:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		03/27/18 13:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		03/27/18 13:43	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		03/27/18 13:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		03/27/18 13:43	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		03/27/18 13:43	108-20-3	
Ethanol	ND	ug/L	1000	655	5		03/27/18 13:43	64-17-5	
Ethylbenzene	**134**	ug/L	25.0	8.0	5		03/27/18 13:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		03/27/18 13:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		03/27/18 13:43	1634-04-4	
Naphthalene	ND	ug/L	25.0	10.0	5		03/27/18 13:43	91-20-3	
Toluene	**710**	ug/L	25.0	8.0	5		03/27/18 13:43	108-88-3	
Xylene (Total)	**924**	ug/L	25.0	25.0	5		03/27/18 13:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		5		03/27/18 13:43	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		5		03/27/18 13:43	17060-07-0	
Toluene-d8 (S)	98	%	70-130		5		03/27/18 13:43	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-XR **Lab ID: 92377819002** Collected: 03/19/18 13:05 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:40	03/24/18 13:54	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	03/23/18 16:40	03/24/18 13:54	301-79-56	
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	2.5	1	03/22/18 05:48	03/23/18 05:03	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/27/18 12:53	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/27/18 12:53	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/27/18 12:53	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/27/18 12:53	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/27/18 12:53	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/27/18 12:53	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/27/18 12:53	107-06-2	
Diisopropyl ether	**2.1J**	ug/L	5.0	1.7	1		03/27/18 12:53	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/27/18 12:53	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/27/18 12:53	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/27/18 12:53	637-92-3	
Methyl-tert-butyl ether	**30.8**	ug/L	5.0	1.7	1		03/27/18 12:53	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/27/18 12:53	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/27/18 12:53	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/27/18 12:53	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		03/27/18 12:53	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		03/27/18 12:53	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/27/18 12:53	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: DUP **Lab ID: 92377819003** Collected: 03/19/18 12:30 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:40	03/24/18 14:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	153	%	60-140		1	03/23/18 16:40	03/24/18 14:15	301-79-56	S3
6010 MET ICP, Dissolved	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead, Dissolved	ND	ug/L	5.0	2.5	1	03/22/18 05:48	03/23/18 05:06	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**1020**	ug/L	500	384	5		03/27/18 14:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	17.0	5		03/27/18 14:00	994-05-8	
Benzene	**570**	ug/L	25.0	8.5	5		03/27/18 14:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	160	5		03/27/18 14:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	288	5		03/27/18 14:00	75-65-0	
tert-Butyl Formate	ND	ug/L	250	36.5	5		03/27/18 14:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	25.0	9.0	5		03/27/18 14:00	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	8.5	5		03/27/18 14:00	108-20-3	
Ethanol	ND	ug/L	1000	655	5		03/27/18 14:00	64-17-5	
Ethylbenzene	**108**	ug/L	25.0	8.0	5		03/27/18 14:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	18.0	5		03/27/18 14:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	8.5	5		03/27/18 14:00	1634-04-4	
Naphthalene	ND	ug/L	25.0	10.0	5		03/27/18 14:00	91-20-3	
Toluene	**494**	ug/L	25.0	8.0	5		03/27/18 14:00	108-88-3	
Xylene (Total)	**817**	ug/L	25.0	25.0	5		03/27/18 14:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		5		03/27/18 14:00	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		5		03/27/18 14:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		03/27/18 14:00	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-03 **Lab ID: 92377819004** Collected: 03/19/18 15:00 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:40	03/24/18 14:36	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	03/23/18 16:40	03/24/18 14:36	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/24/18 00:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/24/18 00:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/24/18 00:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/24/18 00:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/24/18 00:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/24/18 00:16	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/24/18 00:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/24/18 00:16	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/24/18 00:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/24/18 00:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/24/18 00:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/24/18 00:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/24/18 00:16	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/24/18 00:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/24/18 00:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		03/24/18 00:16	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/24/18 00:16	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		03/24/18 00:16	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-04 **Lab ID: 92377819005** Collected: 03/19/18 14:10 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:40	03/24/18 15:18	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	97	%	60-140		1	03/23/18 16:40	03/24/18 15:18	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	200	154	2		03/28/18 10:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		03/28/18 10:31	994-05-8	
Benzene	**241**	ug/L	10.0	3.4	2		03/28/18 10:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		03/28/18 10:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		03/28/18 10:31	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		03/28/18 10:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		03/28/18 10:31	107-06-2	
Diisopropyl ether	**12.5**	ug/L	10.0	3.4	2		03/28/18 10:31	108-20-3	
Ethanol	ND	ug/L	400	262	2		03/28/18 10:31	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.2	2		03/28/18 10:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		03/28/18 10:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	3.4	2		03/28/18 10:31	1634-04-4	
Naphthalene	ND	ug/L	10.0	4.0	2		03/28/18 10:31	91-20-3	
Toluene	**11.3**	ug/L	10.0	3.2	2		03/28/18 10:31	108-88-3	
Xylene (Total)	**346**	ug/L	10.0	10.0	2		03/28/18 10:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	85	%	70-130		2		03/28/18 10:31	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		2		03/28/18 10:31	17060-07-0	
Toluene-d8 (S)	107	%	70-130		2		03/28/18 10:31	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-04I **Lab ID: 92377819006** Collected: 03/19/18 14:25 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/26/18 16:35	03/26/18 20:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	03/26/18 16:35	03/26/18 20:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 17:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 17:56	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 17:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 17:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 17:56	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 17:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 17:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 17:56	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 17:56	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 17:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 17:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 17:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 17:56	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 17:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 17:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		03/22/18 17:56	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		03/22/18 17:56	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/22/18 17:56	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-07 **Lab ID: 92377819007** Collected: 03/19/18 09:45 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:41	03/24/18 16:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	03/23/18 16:41	03/24/18 16:01	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 18:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 18:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 18:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 18:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 18:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 18:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 18:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 18:13	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 18:13	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 18:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 18:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 18:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 18:13	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 18:13	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 18:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/22/18 18:13	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		03/22/18 18:13	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/22/18 18:13	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-08 **Lab ID: 92377819008** Collected: 03/19/18 10:15 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:42	03/24/18 02:45	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	03/23/18 16:42	03/24/18 02:45	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 18:30	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 18:30	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 18:30	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 18:30	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 18:30	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 18:30	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 18:30	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 18:30	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 18:30	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 18:30	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 18:30	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 18:30	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 18:30	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 18:30	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 18:30	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	107	%	70-130		1		03/22/18 18:30	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		03/22/18 18:30	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/22/18 18:30	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-09 **Lab ID: 92377819009** Collected: 03/19/18 10:35 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/23/18 16:43	03/24/18 03:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	03/23/18 16:43	03/24/18 03:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 18:46	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 18:46	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 18:46	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 18:46	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 18:46	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 18:46	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 18:46	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 18:46	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 18:46	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 18:46	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 18:46	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 18:46	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 18:46	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 18:46	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 18:46	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	106	%	70-130		1		03/22/18 18:46	460-00-4	
1,2-Dichloroethane-d4 (S)	123	%	70-130		1		03/22/18 18:46	17060-07-0	
Toluene-d8 (S)	109	%	70-130		1		03/22/18 18:46	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-12 **Lab ID: 92377819010** Collected: 03/19/18 10:55 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:43	03/24/18 03:56	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	121	%	60-140		1	03/23/18 16:43	03/24/18 03:56	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3490**	ug/L	2500	1920	25		03/24/18 16:32	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		03/24/18 16:32	994-05-8	
Benzene	**1930**	ug/L	125	42.5	25		03/24/18 16:32	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		03/24/18 16:32	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/24/18 16:32	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/24/18 16:32	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/24/18 16:32	107-06-2	
Diisopropyl ether	ND	ug/L	125	42.5	25		03/24/18 16:32	108-20-3	
Ethanol	ND	ug/L	5000	3280	25		03/24/18 16:32	64-17-5	
Ethylbenzene	**383**	ug/L	125	40.0	25		03/24/18 16:32	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/24/18 16:32	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	125	42.5	25		03/24/18 16:32	1634-04-4	
Naphthalene	ND	ug/L	125	50.0	25		03/24/18 16:32	91-20-3	
Toluene	**2840**	ug/L	125	40.0	25		03/24/18 16:32	108-88-3	
Xylene (Total)	**1380**	ug/L	125	125	25		03/24/18 16:32	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		25		03/24/18 16:32	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		25		03/24/18 16:32	17060-07-0	
Toluene-d8 (S)	99	%	70-130		25		03/24/18 16:32	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-12I **Lab ID: 92377819011** Collected: 03/19/18 11:20 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:43	03/24/18 04:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	139	%	60-140		1	03/23/18 16:43	03/24/18 04:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3830**	ug/L	2000	1540	20		03/24/18 16:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		03/24/18 16:50	994-05-8	
Benzene	**1440**	ug/L	100	34.0	20		03/24/18 16:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		03/24/18 16:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		03/24/18 16:50	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		03/24/18 16:50	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		03/24/18 16:50	107-06-2	
Diisopropyl ether	ND	ug/L	100	34.0	20		03/24/18 16:50	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		03/24/18 16:50	64-17-5	
Ethylbenzene	**231**	ug/L	100	32.0	20		03/24/18 16:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		03/24/18 16:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	34.0	20		03/24/18 16:50	1634-04-4	
Naphthalene	**41.8J**	ug/L	100	40.0	20		03/24/18 16:50	91-20-3	
Toluene	**2880**	ug/L	100	32.0	20		03/24/18 16:50	108-88-3	
Xylene (Total)	**1570**	ug/L	100	100	20		03/24/18 16:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		20		03/24/18 16:50	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		20		03/24/18 16:50	17060-07-0	
Toluene-d8 (S)	97	%	70-130		20		03/24/18 16:50	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-17 **Lab ID: 92377819012** Collected: 03/19/18 09:00 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:43	03/24/18 04:32	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	03/23/18 16:43	03/24/18 04:32	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 19:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 19:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 19:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 19:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 19:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 19:03	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 19:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 19:03	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 19:03	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 19:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 19:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 19:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 19:03	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 19:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 19:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		03/22/18 19:03	460-00-4	
1,2-Dichloroethane-d4 (S)	121	%	70-130		1		03/22/18 19:03	17060-07-0	
Toluene-d8 (S)	114	%	70-130		1		03/22/18 19:03	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-17I **Lab ID: 92377819013** Collected: 03/19/18 09:30 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:43	03/24/18 04:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	124	%	60-140		1	03/23/18 16:43	03/24/18 04:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 19:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 19:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 19:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 19:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 19:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 19:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 19:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 19:20	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 19:20	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 19:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 19:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 19:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 19:20	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 19:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 19:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/22/18 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		03/22/18 19:20	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/22/18 19:20	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-19 **Lab ID: 92377819014** Collected: 03/19/18 15:30 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:43	03/24/18 05:08	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	03/23/18 16:43	03/24/18 05:08	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**909**	ug/L	400	307	4		03/26/18 17:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	13.6	4		03/26/18 17:37	994-05-8	
Benzene	**381**	ug/L	20.0	6.8	4		03/26/18 17:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	128	4		03/26/18 17:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	231	4		03/26/18 17:37	75-65-0	
tert-Butyl Formate	ND	ug/L	200	29.2	4		03/26/18 17:37	762-75-4	
1,2-Dichloroethane	**8.8J**	ug/L	20.0	7.2	4		03/26/18 17:37	107-06-2	
Diisopropyl ether	**26.0**	ug/L	20.0	6.8	4		03/26/18 17:37	108-20-3	
Ethanol	ND	ug/L	800	524	4		03/26/18 17:37	64-17-5	
Ethylbenzene	ND	ug/L	20.0	6.4	4		03/26/18 17:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	14.4	4		03/26/18 17:37	637-92-3	
Methyl-tert-butyl ether	**45.6**	ug/L	20.0	6.8	4		03/26/18 17:37	1634-04-4	
Naphthalene	**9.6J**	ug/L	20.0	8.0	4		03/26/18 17:37	91-20-3	
Toluene	ND	ug/L	20.0	6.4	4		03/26/18 17:37	108-88-3	
Xylene (Total)	ND	ug/L	20.0	20.0	4		03/26/18 17:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		4		03/26/18 17:37	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		4		03/26/18 17:37	17060-07-0	
Toluene-d8 (S)	102	%	70-130		4		03/26/18 17:37	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-19I **Lab ID: 92377819015** Collected: 03/19/18 13:20 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.023**	ug/L	0.020	0.020	1	03/23/18 16:44	03/24/18 05:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	130	%	60-140		1	03/23/18 16:44	03/24/18 05:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**10400**	ug/L	2500	1920	25		03/26/18 17:54	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	85.0	25		03/26/18 17:54	994-05-8	
Benzene	**4840**	ug/L	125	42.5	25		03/26/18 17:54	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	802	25		03/26/18 17:54	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	1440	25		03/26/18 17:54	75-65-0	
tert-Butyl Formate	ND	ug/L	1250	182	25		03/26/18 17:54	762-75-4	
1,2-Dichloroethane	ND	ug/L	125	45.0	25		03/26/18 17:54	107-06-2	
Diisopropyl ether	**395**	ug/L	125	42.5	25		03/26/18 17:54	108-20-3	
Ethanol	ND	ug/L	5000	3280	25		03/26/18 17:54	64-17-5	
Ethylbenzene	**68.5J**	ug/L	125	40.0	25		03/26/18 17:54	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	90.0	25		03/26/18 17:54	637-92-3	
Methyl-tert-butyl ether	**291**	ug/L	125	42.5	25		03/26/18 17:54	1634-04-4	
Naphthalene	**125**	ug/L	125	50.0	25		03/26/18 17:54	91-20-3	
Toluene	**67.5J**	ug/L	125	40.0	25		03/26/18 17:54	108-88-3	
Xylene (Total)	ND	ug/L	125	125	25		03/26/18 17:54	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		25		03/26/18 17:54	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		25		03/26/18 17:54	17060-07-0	
Toluene-d8 (S)	99	%	70-130		25		03/26/18 17:54	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-20 **Lab ID: 92377819016** Collected: 03/19/18 14:40 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.062**	ug/L	0.020	0.020	1	03/23/18 16:44	03/24/18 05:44	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	03/23/18 16:44	03/24/18 05:44	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**3740**	ug/L	1250	960	12.5		03/27/18 14:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	42.5	12.5		03/27/18 14:34	994-05-8	
Benzene	**1620**	ug/L	62.5	21.2	12.5		03/27/18 14:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	401	12.5		03/27/18 14:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	721	12.5		03/27/18 14:34	75-65-0	
tert-Butyl Formate	ND	ug/L	625	91.2	12.5		03/27/18 14:34	762-75-4	
1,2-Dichloroethane	ND	ug/L	62.5	22.5	12.5		03/27/18 14:34	107-06-2	
Diisopropyl ether	**73.7**	ug/L	62.5	21.2	12.5		03/27/18 14:34	108-20-3	
Ethanol	ND	ug/L	2500	1640	12.5		03/27/18 14:34	64-17-5	
Ethylbenzene	**68.0**	ug/L	62.5	20.0	12.5		03/27/18 14:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	45.0	12.5		03/27/18 14:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	21.2	12.5		03/27/18 14:34	1634-04-4	
Naphthalene	ND	ug/L	62.5	25.0	12.5		03/27/18 14:34	91-20-3	
Toluene	**1100**	ug/L	62.5	20.0	12.5		03/27/18 14:34	108-88-3	
Xylene (Total)	**707**	ug/L	62.5	62.5	12.5		03/27/18 14:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		12.5		03/27/18 14:34	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		12.5		03/27/18 14:34	17060-07-0	
Toluene-d8 (S)	100	%	70-130		12.5		03/27/18 14:34	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-21 **Lab ID: 92377819017** Collected: 03/19/18 13:20 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.16**	ug/L	0.020	0.020	1	03/23/18 16:44	03/24/18 06:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	03/23/18 16:44	03/24/18 06:01	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**4530**	ug/L	2000	1540	20		03/24/18 22:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	68.0	20		03/24/18 22:44	994-05-8	
Benzene	**3230**	ug/L	100	34.0	20		03/24/18 22:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	642	20		03/24/18 22:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1150	20		03/24/18 22:44	75-65-0	
tert-Butyl Formate	ND	ug/L	1000	146	20		03/24/18 22:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	100	36.0	20		03/24/18 22:44	107-06-2	
Diisopropyl ether	**329**	ug/L	100	34.0	20		03/24/18 22:44	108-20-3	
Ethanol	ND	ug/L	4000	2620	20		03/24/18 22:44	64-17-5	
Ethylbenzene	**197**	ug/L	100	32.0	20		03/24/18 22:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	72.0	20		03/24/18 22:44	637-92-3	
Methyl-tert-butyl ether	**732**	ug/L	100	34.0	20		03/24/18 22:44	1634-04-4	
Naphthalene	**404**	ug/L	100	40.0	20		03/24/18 22:44	91-20-3	
Toluene	**487**	ug/L	100	32.0	20		03/24/18 22:44	108-88-3	
Xylene (Total)	**3660**	ug/L	100	100	20		03/24/18 22:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		20		03/24/18 22:44	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		20		03/24/18 22:44	17060-07-0	
Toluene-d8 (S)	98	%	70-130		20		03/24/18 22:44	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-22 **Lab ID: 92377819018** Collected: 03/19/18 11:35 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/23/18 16:44	03/24/18 06:19	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	117	%	60-140		1	03/23/18 16:44	03/24/18 06:19	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/26/18 17:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/26/18 17:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/26/18 17:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/26/18 17:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/26/18 17:20	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/26/18 17:20	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/26/18 17:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/26/18 17:20	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/26/18 17:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/26/18 17:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/26/18 17:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/26/18 17:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/26/18 17:20	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/26/18 17:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/26/18 17:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/26/18 17:20	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/26/18 17:20	17060-07-0	
Toluene-d8 (S)	102	%	70-130		1		03/26/18 17:20	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-22I **Lab ID: 92377819019** Collected: 03/19/18 11:50 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:44	03/24/18 06:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	113	%	60-140		1	03/23/18 16:44	03/24/18 06:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 20:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 20:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 20:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 20:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 20:28	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 20:28	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 20:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 20:28	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 20:28	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 20:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 20:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 20:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 20:28	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 20:28	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 20:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/22/18 20:28	460-00-4	
1,2-Dichloroethane-d4 (S)	113	%	70-130		1		03/22/18 20:28	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/22/18 20:28	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-23 **Lab ID: 92377819020** Collected: 03/19/18 15:50 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/23/18 16:44	03/24/18 06:55	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	03/23/18 16:44	03/24/18 06:55	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/26/18 15:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/26/18 15:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/26/18 15:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/26/18 15:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/26/18 15:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/26/18 15:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/26/18 15:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/26/18 15:39	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/26/18 15:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/26/18 15:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/26/18 15:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/26/18 15:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/26/18 15:39	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/26/18 15:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/26/18 15:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		1		03/26/18 15:39	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		03/26/18 15:39	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/26/18 15:39	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-23I **Lab ID: 92377819021** Collected: 03/19/18 16:10 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/23/18 16:44	03/24/18 07:13	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	124	%	60-140		1	03/23/18 16:44	03/24/18 07:13	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 20:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 20:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 20:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 20:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 20:45	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 20:45	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 20:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 20:45	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 20:45	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 20:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 20:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 20:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 20:45	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 20:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 20:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		03/22/18 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		03/22/18 20:45	17060-07-0	
Toluene-d8 (S)	104	%	70-130		1		03/22/18 20:45	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-25 **Lab ID: 92377819022** Collected: 03/19/18 12:55 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:45	03/24/18 07:49	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	72	%	60-140		1	03/23/18 16:45	03/24/18 07:49	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	**390**	ug/L	200	154	2		03/26/18 18:11	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.8	2		03/26/18 18:11	994-05-8	
Benzene	**166**	ug/L	10.0	3.4	2		03/26/18 18:11	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	64.2	2		03/26/18 18:11	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	115	2		03/26/18 18:11	75-65-0	
tert-Butyl Formate	ND	ug/L	100	14.6	2		03/26/18 18:11	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	3.6	2		03/26/18 18:11	107-06-2	
Diisopropyl ether	**4.2J**	ug/L	10.0	3.4	2		03/26/18 18:11	108-20-3	
Ethanol	ND	ug/L	400	262	2		03/26/18 18:11	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.2	2		03/26/18 18:11	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	7.2	2		03/26/18 18:11	637-92-3	
Methyl-tert-butyl ether	**11.8**	ug/L	10.0	3.4	2		03/26/18 18:11	1634-04-4	
Naphthalene	ND	ug/L	10.0	4.0	2		03/26/18 18:11	91-20-3	
Toluene	**42.4**	ug/L	10.0	3.2	2		03/26/18 18:11	108-88-3	
Xylene (Total)	**56.6**	ug/L	10.0	10.0	2		03/26/18 18:11	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		03/26/18 18:11	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		2		03/26/18 18:11	17060-07-0	
Toluene-d8 (S)	106	%	70-130		2		03/26/18 18:11	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-26 **Lab ID: 92377819023** Collected: 03/19/18 13:35 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.056**	ug/L	0.019	0.019	1	03/23/18 16:45	03/24/18 08:07	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	120	%	60-140		1	03/23/18 16:45	03/24/18 08:07	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 21:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 21:19	994-05-8	
Benzene	**15.2**	ug/L	5.0	1.7	1		03/22/18 21:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 21:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 21:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 21:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 21:19	107-06-2	
Diisopropyl ether	**2.7J**	ug/L	5.0	1.7	1		03/22/18 21:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 21:19	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 21:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 21:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 21:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 21:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 21:19	108-88-3	
Xylene (Total)	**14.0**	ug/L	5.0	5.0	1		03/22/18 21:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/22/18 21:19	460-00-4	
1,2-Dichloroethane-d4 (S)	115	%	70-130		1		03/22/18 21:19	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/22/18 21:19	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-26I **Lab ID: 92377819024** Collected: 03/19/18 14:00 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:45	03/24/18 08:25	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	103	%	60-140		1	03/23/18 16:45	03/24/18 08:25	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/22/18 21:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/22/18 21:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/22/18 21:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/22/18 21:52	624-95-3	M1
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/22/18 21:52	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/22/18 21:52	762-75-4	M1
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/22/18 21:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/22/18 21:52	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/22/18 21:52	64-17-5	L1
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/22/18 21:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/22/18 21:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/22/18 21:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/22/18 21:52	91-20-3	M1
Toluene	ND	ug/L	5.0	1.6	1		03/22/18 21:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/22/18 21:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	111	%	70-130		1		03/22/18 21:52	460-00-4	
1,2-Dichloroethane-d4 (S)	119	%	70-130		1		03/22/18 21:52	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		03/22/18 21:52	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: MW-28 **Lab ID: 92377819025** Collected: 03/19/18 10:00 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.019	1	03/23/18 16:45	03/24/18 08:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	110	%	60-140		1	03/23/18 16:45	03/24/18 08:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/23/18 03:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/23/18 03:14	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/18 03:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/23/18 03:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/23/18 03:14	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/23/18 03:14	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/23/18 03:14	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/23/18 03:14	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/23/18 03:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/23/18 03:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/23/18 03:14	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/23/18 03:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/23/18 03:14	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/23/18 03:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/18 03:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	108	%	70-130		1		03/23/18 03:14	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		03/23/18 03:14	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		03/23/18 03:14	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: FIELD BLANK **Lab ID: 92377819026** Collected: 03/19/18 08:50 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.020	1	03/23/18 16:45	03/24/18 09:00	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	03/23/18 16:45	03/24/18 09:00	301-79-56	
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/23/18 02:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/23/18 02:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/18 02:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/23/18 02:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/23/18 02:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/23/18 02:23	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/23/18 02:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/23/18 02:23	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/23/18 02:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/23/18 02:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/23/18 02:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/23/18 02:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/23/18 02:23	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/23/18 02:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/18 02:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	109	%	70-130		1		03/23/18 02:23	460-00-4	
1,2-Dichloroethane-d4 (S)	120	%	70-130		1		03/23/18 02:23	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		03/23/18 02:23	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: RW-03 **Lab ID: 92377819027** Collected: 03/19/18 12:40 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	10000	7680	100		03/24/18 20:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	340	100		03/24/18 20:58	994-05-8	
Benzene	**5770**	ug/L	500	170	100		03/24/18 20:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	3210	100		03/24/18 20:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	5770	100		03/24/18 20:58	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	730	100		03/24/18 20:58	762-75-4	
1,2-Dichloroethane	ND	ug/L	500	180	100		03/24/18 20:58	107-06-2	
Diisopropyl ether	ND	ug/L	500	170	100		03/24/18 20:58	108-20-3	
Ethanol	ND	ug/L	20000	13100	100		03/24/18 20:58	64-17-5	
Ethylbenzene	**2040**	ug/L	500	160	100		03/24/18 20:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	360	100		03/24/18 20:58	637-92-3	
Methyl-tert-butyl ether	**205J**	ug/L	500	170	100		03/24/18 20:58	1634-04-4	
Naphthalene	**261J**	ug/L	500	200	100		03/24/18 20:58	91-20-3	
Toluene	**15400**	ug/L	500	160	100		03/24/18 20:58	108-88-3	M1
Xylene (Total)	**12100**	ug/L	500	500	100		03/24/18 20:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		100		03/24/18 20:58	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		100		03/24/18 20:58	17060-07-0	
Toluene-d8 (S)	99	%	70-130		100		03/24/18 20:58	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: TRIP BLANK C1 **Lab ID: 92377819028** Collected: 03/19/18 00:00 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/23/18 02:40	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/23/18 02:40	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/18 02:40	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/23/18 02:40	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/23/18 02:40	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/23/18 02:40	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/23/18 02:40	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/23/18 02:40	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/23/18 02:40	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/23/18 02:40	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/23/18 02:40	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/23/18 02:40	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/23/18 02:40	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/23/18 02:40	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/18 02:40	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		03/23/18 02:40	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	70-130		1		03/23/18 02:40	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		03/23/18 02:40	2037-26-5	

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ANALYTICAL RESULTS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Sample: TRIP BLANK C2 **Lab ID: 92377819029** Collected: 03/19/18 00:00 Received: 03/21/18 13:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
tert-Amyl Alcohol	ND	ug/L	100	76.8	1		03/23/18 21:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.4	1		03/23/18 21:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		03/23/18 21:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	32.1	1		03/23/18 21:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	57.7	1		03/23/18 21:19	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	7.3	1		03/23/18 21:19	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	1.8	1		03/23/18 21:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	1.7	1		03/23/18 21:19	108-20-3	
Ethanol	ND	ug/L	200	131	1		03/23/18 21:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.6	1		03/23/18 21:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	3.6	1		03/23/18 21:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	1.7	1		03/23/18 21:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.0	1		03/23/18 21:19	91-20-3	
Toluene	ND	ug/L	5.0	1.6	1		03/23/18 21:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		03/23/18 21:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		03/23/18 21:19	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		03/23/18 21:19	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		03/23/18 21:19	2037-26-5	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403023 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET Filtered Diss.
Associated Lab Samples: 92377819001, 92377819002, 92377819003

METHOD BLANK: 2235653 Matrix: Water
Associated Lab Samples: 92377819001, 92377819002, 92377819003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Lead, Dissolved	ug/L	ND	5.0	2.5	03/23/18 04:41	

LABORATORY CONTROL SAMPLE: 2235654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead, Dissolved	ug/L	500	478	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2235655 2235656

Parameter	Units	92377826011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead, Dissolved	ug/L	ND	500	500	434	437	87	87	75-125	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403147 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819006, 92377819007, 92377819008, 92377819009, 92377819012, 92377819013, 92377819019, 92377819021, 92377819023, 92377819024

METHOD BLANK: 2236444 Matrix: Water
Associated Lab Samples: 92377819006, 92377819007, 92377819008, 92377819009, 92377819012, 92377819013, 92377819019, 92377819021, 92377819023, 92377819024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/22/18 12:52	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/22/18 12:52	
Benzene	ug/L	ND	5.0	1.7	03/22/18 12:52	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/22/18 12:52	
Ethanol	ug/L	ND	200	131	03/22/18 12:52	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/22/18 12:52	
Ethylbenzene	ug/L	ND	5.0	1.6	03/22/18 12:52	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/22/18 12:52	
Naphthalene	ug/L	ND	5.0	2.0	03/22/18 12:52	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/22/18 12:52	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/22/18 12:52	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/22/18 12:52	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/22/18 12:52	
Toluene	ug/L	ND	5.0	1.6	03/22/18 12:52	
Xylene (Total)	ug/L	ND	5.0	5.0	03/22/18 12:52	
1,2-Dichloroethane-d4 (S)	%	113	70-130		03/22/18 12:52	
4-Bromofluorobenzene (S)	%	108	70-130		03/22/18 12:52	
Toluene-d8 (S)	%	107	70-130		03/22/18 12:52	

LABORATORY CONTROL SAMPLE: 2236445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	54.2	108	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1000	100	70-130	1g
Benzene	ug/L	50	55.3	111	70-130	
Diisopropyl ether	ug/L	50	58.0	116	70-130	
Ethanol	ug/L	2000	2660	133	70-130	L1
Ethyl-tert-butyl ether	ug/L	100	114	114	70-130	
Ethylbenzene	ug/L	50	50.9	102	70-130	
Methyl-tert-butyl ether	ug/L	50	58.8	118	70-130	
Naphthalene	ug/L	50	51.9	104	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	1g
tert-Amylmethyl ether	ug/L	100	113	113	70-130	
tert-Butyl Alcohol	ug/L	500	523	105	70-130	
tert-Butyl Formate	ug/L	400	511	128	70-130	
Toluene	ug/L	50	52.2	104	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			107	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

LABORATORY CONTROL SAMPLE: 2236445

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE SAMPLE: 2236447

Parameter	Units	92377819024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	16.4	82	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	278	69	70-130	M1
Benzene	ug/L	ND	20	16.1	80	70-130	
Diisopropyl ether	ug/L	ND	20	15.2	76	70-130	
Ethanol	ug/L	ND	800	649	81	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	30.4	76	70-130	
Ethylbenzene	ug/L	ND	20	15.3	76	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	14.2	71	70-130	
Naphthalene	ug/L	ND	20	13.6	68	70-130	M1
tert-Amyl Alcohol	ug/L	ND	400	324	81	70-130	
tert-Amylmethyl ether	ug/L	ND	40	28.4	71	70-130	
tert-Butyl Alcohol	ug/L	ND	200	216	108	70-130	
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	15.7	78	70-130	
Xylene (Total)	ug/L	ND	60	46.2	77	70-130	
1,2-Dichloroethane-d4 (S)	%				107	70-130	
4-Bromofluorobenzene (S)	%				102	70-130	
Toluene-d8 (S)	%				101	70-130	

SAMPLE DUPLICATE: 2236446

Parameter	Units	92377819023 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	15.2	14.4	5	30	
Diisopropyl ether	ug/L	2.7J	2.9J		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	14.0	14.4	3	30	
1,2-Dichloroethane-d4 (S)	%	115	115	0		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

SAMPLE DUPLICATE: 2236446

Parameter	Units	92377819023 Result	Dup Result	RPD	Max RPD	Qualifiers
4-Bromofluorobenzene (S)	%	105	105	0		
Toluene-d8 (S)	%	105	106	1		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403155 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819025, 92377819026, 92377819028

METHOD BLANK: 2236471 Matrix: Water
Associated Lab Samples: 92377819025, 92377819026, 92377819028

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/23/18 01:49	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/23/18 01:49	
Benzene	ug/L	ND	5.0	1.7	03/23/18 01:49	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/23/18 01:49	
Ethanol	ug/L	ND	200	131	03/23/18 01:49	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/23/18 01:49	
Ethylbenzene	ug/L	ND	5.0	1.6	03/23/18 01:49	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/23/18 01:49	
Naphthalene	ug/L	ND	5.0	2.0	03/23/18 01:49	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/23/18 01:49	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/23/18 01:49	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/23/18 01:49	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/23/18 01:49	
Toluene	ug/L	ND	5.0	1.6	03/23/18 01:49	
Xylene (Total)	ug/L	ND	5.0	5.0	03/23/18 01:49	
1,2-Dichloroethane-d4 (S)	%	112	70-130		03/23/18 01:49	
4-Bromofluorobenzene (S)	%	107	70-130		03/23/18 01:49	
Toluene-d8 (S)	%	109	70-130		03/23/18 01:49	

LABORATORY CONTROL SAMPLE: 2236472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	51.8	104	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	1g
Benzene	ug/L	50	53.4	107	70-130	
Diisopropyl ether	ug/L	50	56.4	113	70-130	
Ethanol	ug/L	2000	2350	118	70-130	
Ethyl-tert-butyl ether	ug/L	100	112	112	70-130	
Ethylbenzene	ug/L	50	49.3	99	70-130	
Methyl-tert-butyl ether	ug/L	50	53.5	107	70-130	
Naphthalene	ug/L	50	51.7	103	70-130	
tert-Amyl Alcohol	ug/L	1000	1110	111	70-130	1g
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	563	113	70-130	
tert-Butyl Formate	ug/L	400	428	107	70-130	
Toluene	ug/L	50	49.7	99	70-130	
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			99	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE SAMPLE: 2236474

Parameter	Units	92377826024 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	24.5	121	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	416	104	70-130	
Benzene	ug/L	ND	20	24.6	123	70-130	
Diisopropyl ether	ug/L	ND	20	24.6	123	70-130	
Ethanol	ug/L	ND	800	1030	128	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	45.6	114	70-130	
Ethylbenzene	ug/L	ND	20	22.0	110	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	23.3	117	70-130	
Naphthalene	ug/L	ND	20	19.2	96	70-130	
tert-Amyl Alcohol	ug/L	ND	400	472	118	70-130	
tert-Amylmethyl ether	ug/L	ND	40	45.1	113	70-130	
tert-Butyl Alcohol	ug/L	ND	200	281	140	70-130	M1
tert-Butyl Formate	ug/L	ND	160	86.4	54	70-130	M1,P5
Toluene	ug/L	ND	20	22.9	114	70-130	
Xylene (Total)	ug/L	ND	60	66.5	111	70-130	
1,2-Dichloroethane-d4 (S)	%				117	70-130	
4-Bromofluorobenzene (S)	%				103	70-130	
Toluene-d8 (S)	%				102	70-130	

SAMPLE DUPLICATE: 2236473

Parameter	Units	92377826022 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	113	117	4		
4-Bromofluorobenzene (S)	%	106	104	2		
Toluene-d8 (S)	%	107	107	0		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403300 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819004, 92377819029

METHOD BLANK: 2237313 Matrix: Water
Associated Lab Samples: 92377819004, 92377819029

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/23/18 20:08	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/23/18 20:08	
Benzene	ug/L	ND	5.0	1.7	03/23/18 20:08	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/23/18 20:08	
Ethanol	ug/L	ND	200	131	03/23/18 20:08	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/23/18 20:08	
Ethylbenzene	ug/L	ND	5.0	1.6	03/23/18 20:08	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/23/18 20:08	
Naphthalene	ug/L	ND	5.0	2.0	03/23/18 20:08	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/23/18 20:08	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/23/18 20:08	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/23/18 20:08	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/23/18 20:08	
Toluene	ug/L	ND	5.0	1.6	03/23/18 20:08	
Xylene (Total)	ug/L	ND	5.0	5.0	03/23/18 20:08	
1,2-Dichloroethane-d4 (S)	%	101	70-130		03/23/18 20:08	
4-Bromofluorobenzene (S)	%	95	70-130		03/23/18 20:08	
Toluene-d8 (S)	%	115	70-130		03/23/18 20:08	

LABORATORY CONTROL SAMPLE: 2237314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	48.1	96	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1200	120	70-130	
Benzene	ug/L	50	51.8	104	70-130	
Diisopropyl ether	ug/L	50	47.5	95	70-130	
Ethanol	ug/L	2000	2490	124	70-130	
Ethyl-tert-butyl ether	ug/L	100	98.3	98	70-130	
Ethylbenzene	ug/L	50	55.9	112	70-130	
Methyl-tert-butyl ether	ug/L	50	50.1	100	70-130	
Naphthalene	ug/L	50	54.9	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1270	127	70-130	
tert-Amylmethyl ether	ug/L	100	102	102	70-130	
tert-Butyl Alcohol	ug/L	500	584	117	70-130	
tert-Butyl Formate	ug/L	400	399	100	70-130	
Toluene	ug/L	50	48.3	97	70-130	
Xylene (Total)	ug/L	150	169	112	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE SAMPLE: 2237316

Parameter	Units	92377858007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	19.9	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	401	100	70-130	
Benzene	ug/L	ND	20	22.4	112	70-130	
Diisopropyl ether	ug/L	ND	20	18.9	95	70-130	
Ethanol	ug/L	ND	800	976	122	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	38.5	96	70-130	
Ethylbenzene	ug/L	ND	20	23.4	117	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.3	102	70-130	
Naphthalene	ug/L	ND	20	21.9	109	70-130	
tert-Amyl Alcohol	ug/L	ND	400	445	111	70-130	
tert-Amylmethyl ether	ug/L	ND	40	41.8	105	70-130	
tert-Butyl Alcohol	ug/L	ND	200	236	118	70-130	
tert-Butyl Formate	ug/L	ND	160	87.2	55	70-130	M1,P5
Toluene	ug/L	ND	20	21.0	105	70-130	
Xylene (Total)	ug/L	ND	60	70.3	117	70-130	
1,2-Dichloroethane-d4 (S)	%				101	70-130	
4-Bromofluorobenzene (S)	%				96	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 2237315

Parameter	Units	92377858006 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	108	102	6		
4-Bromofluorobenzene (S)	%	97	96	0		
Toluene-d8 (S)	%	108	102	5		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403350 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819010, 92377819011

METHOD BLANK: 2237730 Matrix: Water
Associated Lab Samples: 92377819010, 92377819011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/24/18 07:41	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/24/18 07:41	
Benzene	ug/L	ND	5.0	1.7	03/24/18 07:41	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/24/18 07:41	
Ethanol	ug/L	ND	200	131	03/24/18 07:41	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/24/18 07:41	
Ethylbenzene	ug/L	ND	5.0	1.6	03/24/18 07:41	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/24/18 07:41	
Naphthalene	ug/L	ND	5.0	2.0	03/24/18 07:41	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/24/18 07:41	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/24/18 07:41	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/24/18 07:41	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/24/18 07:41	
Toluene	ug/L	ND	5.0	1.6	03/24/18 07:41	
Xylene (Total)	ug/L	ND	5.0	5.0	03/24/18 07:41	
1,2-Dichloroethane-d4 (S)	%	102	70-130		03/24/18 07:41	
4-Bromofluorobenzene (S)	%	97	70-130		03/24/18 07:41	
Toluene-d8 (S)	%	104	70-130		03/24/18 07:41	

LABORATORY CONTROL SAMPLE: 2237731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.5	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1160	116	70-130	
Benzene	ug/L	50	51.3	103	70-130	
Diisopropyl ether	ug/L	50	47.5	95	70-130	
Ethanol	ug/L	2000	2430	122	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
Ethylbenzene	ug/L	50	58.5	117	70-130	
Methyl-tert-butyl ether	ug/L	50	50.0	100	70-130	
Naphthalene	ug/L	50	58.4	117	70-130	
tert-Amyl Alcohol	ug/L	1000	1240	124	70-130	
tert-Amylmethyl ether	ug/L	100	104	104	70-130	
tert-Butyl Alcohol	ug/L	500	607	121	70-130	
tert-Butyl Formate	ug/L	400	358	89	70-130	
Toluene	ug/L	50	49.1	98	70-130	
Xylene (Total)	ug/L	150	173	115	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			96	70-130	
Toluene-d8 (S)	%			94	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE SAMPLE: 2237733

Parameter	Units	92378130008 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.3	100	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	380	95	70-130	
Benzene	ug/L	ND	20	22.4	112	70-130	
Diisopropyl ether	ug/L	ND	20	19.0	95	70-130	
Ethanol	ug/L	ND	800	944	118	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	39.2	98	70-130	
Ethylbenzene	ug/L	ND	20	23.8	119	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	18.7	93	70-130	
Naphthalene	ug/L	ND	20	21.2	106	70-130	
tert-Amyl Alcohol	ug/L	ND	400	428	107	70-130	
tert-Amylmethyl ether	ug/L	ND	40	42.0	105	70-130	
tert-Butyl Alcohol	ug/L	ND	200	287	144	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	0	70-130	M1,P5
Toluene	ug/L	ND	20	21.8	109	70-130	
Xylene (Total)	ug/L	ND	60	71.0	118	70-130	
1,2-Dichloroethane-d4 (S)	%				100	70-130	
4-Bromofluorobenzene (S)	%				97	70-130	
Toluene-d8 (S)	%				97	70-130	

SAMPLE DUPLICATE: 2237732

Parameter	Units	92378130007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	ND	ND		30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	ND	ND		30	
Methyl-tert-butyl ether	ug/L	ND	ND		30	
Naphthalene	ug/L	ND	ND		30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	107	103	4		
4-Bromofluorobenzene (S)	%	96	97	1		
Toluene-d8 (S)	%	101	100	1		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403378 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819017, 92377819027

METHOD BLANK: 2237835 Matrix: Water
Associated Lab Samples: 92377819017, 92377819027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/24/18 19:47	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/24/18 19:47	
Benzene	ug/L	ND	5.0	1.7	03/24/18 19:47	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/24/18 19:47	
Ethanol	ug/L	ND	200	131	03/24/18 19:47	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/24/18 19:47	
Ethylbenzene	ug/L	ND	5.0	1.6	03/24/18 19:47	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/24/18 19:47	
Naphthalene	ug/L	ND	5.0	2.0	03/24/18 19:47	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/24/18 19:47	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/24/18 19:47	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/24/18 19:47	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/24/18 19:47	
Toluene	ug/L	ND	5.0	1.6	03/24/18 19:47	
Xylene (Total)	ug/L	ND	5.0	5.0	03/24/18 19:47	
1,2-Dichloroethane-d4 (S)	%	103	70-130		03/24/18 19:47	
4-Bromofluorobenzene (S)	%	97	70-130		03/24/18 19:47	
Toluene-d8 (S)	%	102	70-130		03/24/18 19:47	

LABORATORY CONTROL SAMPLE: 2237837

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1020	102	70-130	
Benzene	ug/L	50	50.1	100	70-130	
Diisopropyl ether	ug/L	50	47.3	95	70-130	
Ethanol	ug/L	2000	2300	115	70-130	
Ethyl-tert-butyl ether	ug/L	100	100	100	70-130	
Ethylbenzene	ug/L	50	55.1	110	70-130	
Methyl-tert-butyl ether	ug/L	50	49.5	99	70-130	
Naphthalene	ug/L	50	57.3	115	70-130	
tert-Amyl Alcohol	ug/L	1000	1150	115	70-130	
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	538	108	70-130	
tert-Butyl Formate	ug/L	400	366	92	70-130	
Toluene	ug/L	50	47.6	95	70-130	
Xylene (Total)	ug/L	150	166	111	70-130	
1,2-Dichloroethane-d4 (S)	%			99	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2237838 2237839

Parameter	Units	92377819027 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	2000	2000	2040	1970	102	98	70-130	4	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	40000	40000	34900	36000	87	90	70-130	3	30	
Benzene	ug/L	5770	2000	2000	7780	7630	100	93	70-130	2	30	
Diisopropyl ether	ug/L	ND	2000	2000	2030	1980	95	93	70-130	3	30	
Ethanol	ug/L	ND	80000	80000	91000	87000	114	109	70-130	4	30	
Ethyl-tert-butyl ether	ug/L	ND	4000	4000	3850	3720	96	93	70-130	4	30	
Ethylbenzene	ug/L	2040	2000	2000	4270	4260	111	111	70-130	0	30	
Methyl-tert-butyl ether	ug/L	205J	2000	2000	2240	2170	102	98	70-130	3	30	
Naphthalene	ug/L	261J	2000	2000	2350	2390	104	107	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	40000	40000	48400	45900	104	98	70-130	5	30	
tert-Amylmethyl ether	ug/L	ND	4000	4000	4120	4010	103	100	70-130	3	30	
tert-Butyl Alcohol	ug/L	ND	20000	20000	18400	17400	92	87	70-130	6	30	
tert-Butyl Formate	ug/L	ND	16000	16000	15400	15100	96	94	70-130	2	30	
Toluene	ug/L	15400	2000	2000	15900	15700	23	12	70-130	1	30	M1
Xylene (Total)	ug/L	12100	6000	6000	18400	18400	106	105	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						102	100	70-130			
4-Bromofluorobenzene (S)	%						95	95	70-130			
Toluene-d8 (S)	%						96	95	70-130			

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403487 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819014, 92377819015, 92377819018, 92377819020, 92377819022

METHOD BLANK: 2238176 Matrix: Water
Associated Lab Samples: 92377819014, 92377819015, 92377819018, 92377819020, 92377819022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/26/18 10:17	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/26/18 10:17	
Benzene	ug/L	ND	5.0	1.7	03/26/18 10:17	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/26/18 10:17	
Ethanol	ug/L	ND	200	131	03/26/18 10:17	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/26/18 10:17	
Ethylbenzene	ug/L	ND	5.0	1.6	03/26/18 10:17	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/26/18 10:17	
Naphthalene	ug/L	ND	5.0	2.0	03/26/18 10:17	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/26/18 10:17	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/26/18 10:17	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/26/18 10:17	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/26/18 10:17	
Toluene	ug/L	ND	5.0	1.6	03/26/18 10:17	
Xylene (Total)	ug/L	ND	5.0	5.0	03/26/18 10:17	
1,2-Dichloroethane-d4 (S)	%	101	70-130		03/26/18 10:17	
4-Bromofluorobenzene (S)	%	105	70-130		03/26/18 10:17	
Toluene-d8 (S)	%	105	70-130		03/26/18 10:17	

LABORATORY CONTROL SAMPLE: 2238177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.1	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	811	81	70-130	1g
Benzene	ug/L	50	50.9	102	70-130	
Diisopropyl ether	ug/L	50	51.7	103	70-130	
Ethanol	ug/L	2000	1400	70	70-130	
Ethyl-tert-butyl ether	ug/L	100	102	102	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
Methyl-tert-butyl ether	ug/L	50	51.3	103	70-130	
Naphthalene	ug/L	50	52.2	104	70-130	
tert-Amyl Alcohol	ug/L	1000	798	80	70-130	1g
tert-Amylmethyl ether	ug/L	100	99.0	99	70-130	
tert-Butyl Alcohol	ug/L	500	396	79	70-130	
tert-Butyl Formate	ug/L	400	438	109	70-130	
Toluene	ug/L	50	48.4	97	70-130	
Xylene (Total)	ug/L	150	158	105	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2238178 2238179

Parameter	Units	92377330025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	1000	1000	939	1060	94	106	70-130	12	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	20000	20000	22000	21500	110	108	70-130	2	30	
Benzene	ug/L	388	1000	1000	1450	1530	106	114	70-130	6	30	
Diisopropyl ether	ug/L	ND	1000	1000	1020	1110	102	111	70-130	8	30	
Ethanol	ug/L	ND	40000	40000	36300	52200	91	130	70-130	36	30	R1
Ethyl-tert-butyl ether	ug/L	ND	2000	2000	1950	2190	98	109	70-130	11	30	
Ethylbenzene	ug/L	222J	1000	1000	1310	1380	109	116	70-130	5	30	
Methyl-tert-butyl ether	ug/L	236J	1000	1000	1310	1430	108	120	70-130	9	30	
Naphthalene	ug/L	118J	1000	1000	1230	1270	111	115	70-130	3	30	
tert-Amyl Alcohol	ug/L	ND	20000	20000	24900	23300	125	117	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	2000	2000	1960	2050	98	103	70-130	5	30	
tert-Butyl Alcohol	ug/L	ND	10000	10000	11100	10800	111	108	70-130	2	30	
tert-Butyl Formate	ug/L	ND	8000	8000	7890	8740	99	109	70-130	10	30	
Toluene	ug/L	6220	1000	1000	7110	7100	88	88	70-130	0	30	
Xylene (Total)	ug/L	780	3000	3000	4020	4400	108	120	70-130	9	30	
1,2-Dichloroethane-d4 (S)	%						95	99	70-130			
4-Bromofluorobenzene (S)	%						96	99	70-130			
Toluene-d8 (S)	%						98	97	70-130			

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403638 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819001, 92377819002, 92377819003, 92377819016

METHOD BLANK: 2239151 Matrix: Water
Associated Lab Samples: 92377819001, 92377819002, 92377819003, 92377819016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/27/18 06:35	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/27/18 06:35	
Benzene	ug/L	ND	5.0	1.7	03/27/18 06:35	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/27/18 06:35	
Ethanol	ug/L	ND	200	131	03/27/18 06:35	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/27/18 06:35	
Ethylbenzene	ug/L	ND	5.0	1.6	03/27/18 06:35	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/27/18 06:35	
Naphthalene	ug/L	ND	5.0	2.0	03/27/18 06:35	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/27/18 06:35	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/27/18 06:35	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/27/18 06:35	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/27/18 06:35	
Toluene	ug/L	ND	5.0	1.6	03/27/18 06:35	
Xylene (Total)	ug/L	ND	5.0	5.0	03/27/18 06:35	
1,2-Dichloroethane-d4 (S)	%	101	70-130		03/27/18 06:35	
4-Bromofluorobenzene (S)	%	103	70-130		03/27/18 06:35	
Toluene-d8 (S)	%	104	70-130		03/27/18 06:35	

LABORATORY CONTROL SAMPLE: 2239152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	44.7	89	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1010	101	70-130	1g
Benzene	ug/L	50	49.5	99	70-130	
Diisopropyl ether	ug/L	50	49.2	98	70-130	
Ethanol	ug/L	2000	2330	116	70-130	
Ethyl-tert-butyl ether	ug/L	100	97.7	98	70-130	
Ethylbenzene	ug/L	50	49.5	99	70-130	
Methyl-tert-butyl ether	ug/L	50	50.6	101	70-130	
Naphthalene	ug/L	50	57.8	116	70-130	
tert-Amyl Alcohol	ug/L	1000	983	98	70-130	1g
tert-Amylmethyl ether	ug/L	100	101	101	70-130	
tert-Butyl Alcohol	ug/L	500	479	96	70-130	
tert-Butyl Formate	ug/L	400	373	93	70-130	
Toluene	ug/L	50	47.0	94	70-130	
Xylene (Total)	ug/L	150	149	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			95	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE SAMPLE: 2239816

Parameter	Units	92377967015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	ND	20	20.9	105	70-130	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	421	105	70-130	
Benzene	ug/L	ND	20	22.9	112	70-130	
Diisopropyl ether	ug/L	ND	20	15.1	75	70-130	
Ethanol	ug/L	ND	800	769	96	70-130	
Ethyl-tert-butyl ether	ug/L	ND	40	37.5	94	70-130	
Ethylbenzene	ug/L	ND	20	25.5	128	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	22.2	107	70-130	
Naphthalene	ug/L	ND	20	25.4	126	70-130	
tert-Amyl Alcohol	ug/L	ND	400	398	100	70-130	
tert-Amylmethyl ether	ug/L	ND	40	43.6	109	70-130	
tert-Butyl Alcohol	ug/L	ND	200	286	143	70-130	M1
tert-Butyl Formate	ug/L	ND	160	ND	2	70-130	M1,P5
Toluene	ug/L	ND	20	21.4	107	70-130	
Xylene (Total)	ug/L	ND	60	73.7	123	70-130	
1,2-Dichloroethane-d4 (S)	%				103	70-130	
4-Bromofluorobenzene (S)	%				99	70-130	
Toluene-d8 (S)	%				96	70-130	

SAMPLE DUPLICATE: 2239815

Parameter	Units	92377967008 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dichloroethane	ug/L	ND	ND		30	
3,3-Dimethyl-1-Butanol	ug/L	ND	ND		30	
Benzene	ug/L	60.0	55.0	9	30	
Diisopropyl ether	ug/L	ND	ND		30	
Ethanol	ug/L	ND	ND		30	
Ethyl-tert-butyl ether	ug/L	ND	ND		30	
Ethylbenzene	ug/L	8.8	9.6	9	30	
Methyl-tert-butyl ether	ug/L	97.9	101	4	30	
Naphthalene	ug/L	14.0	15.8	12	30	
tert-Amyl Alcohol	ug/L	ND	ND		30	
tert-Amylmethyl ether	ug/L	ND	ND		30	
tert-Butyl Alcohol	ug/L	ND	ND		30	
tert-Butyl Formate	ug/L	ND	ND		30	
Toluene	ug/L	ND	ND		30	
Xylene (Total)	ug/L	ND	ND		30	
1,2-Dichloroethane-d4 (S)	%	101	95	6		
4-Bromofluorobenzene (S)	%	100	102	2		
Toluene-d8 (S)	%	103	101	2		

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403772
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92377819005

METHOD BLANK: 2239854
Matrix: Water
Associated Lab Samples: 92377819005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	1.8	03/28/18 07:09	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	32.1	03/28/18 07:09	
Benzene	ug/L	ND	5.0	1.7	03/28/18 07:09	
Diisopropyl ether	ug/L	ND	5.0	1.7	03/28/18 07:09	
Ethanol	ug/L	ND	200	131	03/28/18 07:09	
Ethyl-tert-butyl ether	ug/L	ND	10.0	3.6	03/28/18 07:09	
Ethylbenzene	ug/L	ND	5.0	1.6	03/28/18 07:09	
Methyl-tert-butyl ether	ug/L	ND	5.0	1.7	03/28/18 07:09	
Naphthalene	ug/L	ND	5.0	2.0	03/28/18 07:09	
tert-Amyl Alcohol	ug/L	ND	100	76.8	03/28/18 07:09	
tert-Amylmethyl ether	ug/L	ND	10.0	3.4	03/28/18 07:09	
tert-Butyl Alcohol	ug/L	ND	100	57.7	03/28/18 07:09	
tert-Butyl Formate	ug/L	ND	50.0	7.3	03/28/18 07:09	
Toluene	ug/L	ND	5.0	1.6	03/28/18 07:09	
Xylene (Total)	ug/L	ND	5.0	5.0	03/28/18 07:09	
1,2-Dichloroethane-d4 (S)	%	107	70-130		03/28/18 07:09	
4-Bromofluorobenzene (S)	%	100	70-130		03/28/18 07:09	
Toluene-d8 (S)	%	115	70-130		03/28/18 07:09	

LABORATORY CONTROL SAMPLE: 2239855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	53.4	107	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1070	107	70-130	
Benzene	ug/L	50	57.7	115	70-130	
Diisopropyl ether	ug/L	50	39.7	79	70-130	
Ethanol	ug/L	2000	1880	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	99.7	100	70-130	
Ethylbenzene	ug/L	50	57.2	114	70-130	
Methyl-tert-butyl ether	ug/L	50	57.5	115	70-130	
Naphthalene	ug/L	50	63.0	126	70-130	
tert-Amyl Alcohol	ug/L	1000	1070	107	70-130	
tert-Amylmethyl ether	ug/L	100	113	113	70-130	
tert-Butyl Alcohol	ug/L	500	541	108	70-130	
tert-Butyl Formate	ug/L	400	325	81	70-130	
Toluene	ug/L	50	49.5	99	70-130	
Xylene (Total)	ug/L	150	178	119	70-130	
1,2-Dichloroethane-d4 (S)	%			104	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2239856 2239857

Parameter	Units	92377967003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	400	400	394	381	99	95	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8000	7110	7170	89	90	70-130	1	30	
Benzene	ug/L	582	400	400	950	1020	92	110	70-130	7	30	
Diisopropyl ether	ug/L	ND	400	400	290	275	73	69	70-130	5	30	M1
Ethanol	ug/L	ND	16000	16000	14900	14100	93	88	70-130	5	30	
Ethyl-tert-butyl ether	ug/L	ND	800	800	722	698	90	87	70-130	3	30	
Ethylbenzene	ug/L	847	400	400	1290	1280	110	107	70-130	1	30	
Methyl-tert-butyl ether	ug/L	692	400	400	1220	1200	132	126	70-130	2	30	M1
Naphthalene	ug/L	292	400	400	712	728	105	109	70-130	2	30	
tert-Amyl Alcohol	ug/L	ND	8000	8000	7880	ND	99	0	70-130		30	M1
tert-Amylmethyl ether	ug/L	ND	800	800	820	823	102	103	70-130	0	30	
tert-Butyl Alcohol	ug/L	ND	4000	4000	4200	3780	100	89	70-130	11	30	
tert-Butyl Formate	ug/L	ND	3200	3200	2710	2540	85	79	70-130	7	30	
Toluene	ug/L	136	400	400	503	521	92	96	70-130	4	30	
Xylene (Total)	ug/L	2990	1200	1200	4310	4250	110	106	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						104	103	70-130			
4-Bromofluorobenzene (S)	%						84	109	70-130			
Toluene-d8 (S)	%						93	96	70-130			

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403252 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92377819001, 92377819002, 92377819003, 92377819004, 92377819005, 92377819007

METHOD BLANK: 2236906 Matrix: Water
Associated Lab Samples: 92377819001, 92377819002, 92377819003, 92377819004, 92377819005, 92377819007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/24/18 07:14	
1-Chloro-2-bromopropane (S)	%	109	60-140		03/24/18 07:14	

LABORATORY CONTROL SAMPLE & LCSD: 2236907 2236908

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	0.27	103	107	60-140	5	20	
1-Chloro-2-bromopropane (S)	%				115	116	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2236909 2236910

Parameter	Units	92377687011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.24	.24	0.20	0.20	85	85	60-140	0	20	
1-Chloro-2-bromopropane (S)	%						90	91	60-140			

SAMPLE DUPLICATE: 2236911

Parameter	Units	92377819004 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	104	107	1		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403253 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92377819008, 92377819009, 92377819010, 92377819011, 92377819012, 92377819013, 92377819014, 92377819015, 92377819016, 92377819017, 92377819018, 92377819019, 92377819020, 92377819021, 92377819022, 92377819023, 92377819024, 92377819025, 92377819026

METHOD BLANK: 2236914 Matrix: Water
Associated Lab Samples: 92377819008, 92377819009, 92377819010, 92377819011, 92377819012, 92377819013, 92377819014, 92377819015, 92377819016, 92377819017, 92377819018, 92377819019, 92377819020, 92377819021, 92377819022, 92377819023, 92377819024, 92377819025, 92377819026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/24/18 01:51	
1-Chloro-2-bromopropane (S)	%	106	60-140		03/24/18 01:51	

LABORATORY CONTROL SAMPLE & LCSD: 2236915 2236916

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.25	0.30	0.26	121	103	60-140	15	20	
1-Chloro-2-bromopropane (S)	%				133	112	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2236917 2236918

Parameter	Units	92377819008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	.25	.25	0.24	0.25	98	101	60-140	2	20	
1-Chloro-2-bromopropane (S)	%						106	109	60-140			

SAMPLE DUPLICATE: 2236919

Parameter	Units	92377819021 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	124	117	4		

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QUALITY CONTROL DATA

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

QC Batch: 403482 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92377819006

METHOD BLANK: 2238160 Matrix: Water
Associated Lab Samples: 92377819006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.020	03/26/18 19:34	
1-Chloro-2-bromopropane (S)	%	114	60-140		03/26/18 19:34	

LABORATORY CONTROL SAMPLE & LCSD: 2238161 2238162

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	.24	0.24	0.27	98	107	60-140	11	20	
1-Chloro-2-bromopropane (S)	%				110	115	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2238164 2238165

Parameter	Units	92377849003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L				0.27	0.27				2	20	
1-Chloro-2-bromopropane (S)	%						114	114	60-140			

SAMPLE DUPLICATE: 2238163

Parameter	Units	92377847002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	112	79	26		

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QUALIFIERS

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
R1	RPD value was outside control limits.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92377819001	**MW-02**	EPA 8011	403252	EPA 8011	403325
92377819002	**MW-XR**	EPA 8011	403252	EPA 8011	403325
92377819003	**DUP**	EPA 8011	403252	EPA 8011	403325
92377819004	**MW-03**	EPA 8011	403252	EPA 8011	403325
92377819005	**MW-04**	EPA 8011	403252	EPA 8011	403325
92377819006	**MW-04I**	EPA 8011	403482	EPA 8011	403540
92377819007	**MW-07**	EPA 8011	403252	EPA 8011	403325
92377819008	**MW-08**	EPA 8011	403253	EPA 8011	403328
92377819009	**MW-09**	EPA 8011	403253	EPA 8011	403328
92377819010	**MW-12**	EPA 8011	403253	EPA 8011	403328
92377819011	**MW-12I**	EPA 8011	403253	EPA 8011	403328
92377819012	**MW-17**	EPA 8011	403253	EPA 8011	403328
92377819013	**MW-17I**	EPA 8011	403253	EPA 8011	403328
92377819014	**MW-19**	EPA 8011	403253	EPA 8011	403328
92377819015	**MW-19I**	EPA 8011	403253	EPA 8011	403328
92377819016	**MW-20**	EPA 8011	403253	EPA 8011	403328
92377819017	**MW-21**	EPA 8011	403253	EPA 8011	403328
92377819018	**MW-22**	EPA 8011	403253	EPA 8011	403328
92377819019	**MW-22I**	EPA 8011	403253	EPA 8011	403328
92377819020	**MW-23**	EPA 8011	403253	EPA 8011	403328
92377819021	**MW-23I**	EPA 8011	403253	EPA 8011	403328
92377819022	**MW-25**	EPA 8011	403253	EPA 8011	403328
92377819023	**MW-26**	EPA 8011	403253	EPA 8011	403328
92377819024	**MW-26I**	EPA 8011	403253	EPA 8011	403328
92377819025	**MW-28**	EPA 8011	403253	EPA 8011	403328
92377819026	**FIELD BLANK**	EPA 8011	403253	EPA 8011	403328
92377819001	**MW-02**	EPA 3010	403023	EPA 6010	403055
92377819002	**MW-XR**	EPA 3010	403023	EPA 6010	403055
92377819003	**DUP**	EPA 3010	403023	EPA 6010	403055
92377819001	**MW-02**	EPA 8260	403638		
92377819002	**MW-XR**	EPA 8260	403638		
92377819003	**DUP**	EPA 8260	403638		
92377819004	**MW-03**	EPA 8260	403300		
92377819005	**MW-04**	EPA 8260	403772		
92377819006	**MW-04I**	EPA 8260	403147		
92377819007	**MW-07**	EPA 8260	403147		
92377819008	**MW-08**	EPA 8260	403147		
92377819009	**MW-09**	EPA 8260	403147		
92377819010	**MW-12**	EPA 8260	403350		
92377819011	**MW-12I**	EPA 8260	403350		
92377819012	**MW-17**	EPA 8260	403147		
92377819013	**MW-17I**	EPA 8260	403147		
92377819014	**MW-19**	EPA 8260	403487		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: WESTSIDE QUICK STOP
Pace Project No.: 92377819

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92377819015	**MW-19I**	EPA 8260	403487		
92377819016	**MW-20**	EPA 8260	403638		
92377819017	**MW-21**	EPA 8260	403378		
92377819018	**MW-22**	EPA 8260	403487		
92377819019	**MW-22I**	EPA 8260	403147		
92377819020	**MW-23**	EPA 8260	403487		
92377819021	**MW-23I**	EPA 8260	403147		
92377819022	**MW-25**	EPA 8260	403487		
92377819023	**MW-26**	EPA 8260	403147		
92377819024	**MW-26I**	EPA 8260	403147		
92377819025	**MW-28**	EPA 8260	403155		
92377819026	**FIELD BLANK**	EPA 8260	403155		
92377819027	**RW-03**	EPA 8260	403378		
92377819028	**TRIP BLANK C1**	EPA 8260	403155		
92377819029	**TRIP BLANK C2**	EPA 8260	403300		

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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☑ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐

WO# : 92377819

92377819

Sample Condition Upon Receipt

Client Name: Petra Tech

Projec

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: RDT 3/21/18

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: T027

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 2.5/2.2 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.5/2.2

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☑ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☑ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: TR Date: 3/23

Project Manager SRF Review: TR Date: 3/23

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO#: 92377819**

PM: PTE Due Date: 03/28/18

CLIENT: 92-Petra-Tec

pl

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1						1										6													
2																6													
3																6													
4																6													
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11																6													
12																6													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

WO#: 92377819

PM: PTE Due Date: 03/28/18

CLIENT: 92-Petra-Tec

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Pr

P2

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6												
2																6												
3																6												
4																6												
5																6												
6																6												
7																6												
8																6												
9																6												
10																6												
11																6												
12						✓										6												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottle

Pro **WO# : 92377819**

PM: PTE Due Date: 03/28/18

CLIENT: 92-Petra-Tec

P3

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1																6												
2																6												
3						1										6												
4																2												
5																												
6																2												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Petra-Tech Environmental, LLC	Report To:		Attention:	
Address:	2435 East North Street, STE 1108-202	Copy To:		Company Name:	
	Greenville, South Carolina 29615			Address:	
Email To:	tslack@petratechenv.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Westside Quick Stop	Pace Project Manager:	
Requested Due Date/TAT:		Project Number:	J18-528-A	Pace Profile #:	6089

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / , -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260B	BTEX+MTBE+NAPH 8260B	8011 EDB	Filtered Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-02 ★		WT	G			3/19/18	1220												X		X	X			9237 7819 001
2	MW-03						3/19/18	1500												X		X				004
3	MW-04						3/19	1410												X		X				005
4	MW-04I						3/19	1425												X		X				006
5	MW-07						3/19	0945												X		X				007
6	MW-08						3/19	1015												X		X				008
7	MW-09						3/19	1035												X		X				009
8	MW-12						3/19	1055												X		X				010
9	MW-12I						3/19	1120												X		X				011
10	MW-17						3/19	0900												X		X				012
11	MW-17I						3/19	0930												X		X				013
12	MW-19		WT	G			3/19	1530												X		X				014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		3-21-18	1230		3-21-18	1230				
		3-21-18	1340		3/21/18	1340	2.5 2.2	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER:
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 3

Section A Required Client Information:		Section B Required Project Information:	Section C Invoice Information:
Company:	Petra-Tech Environmental, LLC	Report To:	Attention:
Address:	2435 East North Street, STE 1108-202	Copy To:	Company Name:
	Greenville, South Carolina 29615		Address:
Email To:	tslack@petratechenv.com	Purchase Order No.:	Pace Quote Reference:
Phone:	Fax:	Project Name: westside Quick Stop	Pace Project Manager:
Requested Due Date/TAT:		Project Number: J18-528-A	Pace Profile #:

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☒ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	8260B	BTEX+M+N+1,2DCA	+80XY	8011	EDB	Filtered Lead	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 9237 7819
1	MW-19I	WT	G			3/19	1320												X			X				015
2	MW-20					3/19	1440												X			X				016
3	MW-21					3/19	1320												X			X				017
4	MW-22					3/19	1135												X			X				018
5	MW-22I					3/19	1150												X			X				019
6	MW-23					3/19	1550												X			X				020
7	MW-23I					3/19	1610												X			X				021
8	MW-25					3/19	1255												X			X				022
9	MW-26					3/19	1335												X			X				023
10	MW-26I					3/19	1400												X			X				024
11	MW-28					3/19	10:00												X			X				025
12	MW-XR ★					3/19	1305												X			X		X		002

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3-21-18	1230	St Bell	3-21-18	1230				
	St Bell	3-21-18	1340	[signature]	3/21/18	1350	25	Y	N	Y
							2.2			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY):

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 3 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Petra-Tech Environmental	Report To:	Slack, Trever	Attention:	
Address:	15 Sulphur Springs Rd	Copy To:		Company Name:	
Greenville, SC 29615				Address:	
Email:		Purchase Order #:	Westside Quick Stop.	Pace Quote:	
Phone:	Fax:	Project Name:	~~Former Mill Oil Company~~	Pace Project Manager:	taylor.ezell@pacelabs.com.
Requested Due Date:		Project #:		Pace Profile #:	6009-2,3

Regulatory Agency

State / Location: SC

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): 8260B	13TGX+MTN	+1,2DCA+8084	8011	6013	Filtered Lead	Residual Chlorine (Y/N)	9237 7819
1	BW-03					3/19	1240												X							027
2	Field Blank					3/19	0850												X			X				026
3	DUP					3/19	1230												X			X		X		003
4	Trip Blank C1					—													X							028
5	~~[illegible]~~																									
6	Trip Blank C2					—													X							029
7																										
8																										
9																										
10																										
11																										
12																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	[signature]	3-21-18	1230	Stn Bed	3-21-18	1230				
	Stn Bed	3-21-18	1340	[signature]	3/21/18	13:40	2.5 2.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: DATE Signed:

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX E

D H E C
PROMOTE PROTECT PROSPER

Summary of Slug Test
Underground Storage Tank Management Division

Site Data

UST Permit #: 12430 County: Greenville

Facility Name: Westside Quick Stop Date Performed: March 12, 2018

Slug Data

See Appendix E Table _____ Figure _____ for a list of all data measurements. [water level logs, etc. (complete as appropriate)].

Water Level Recovery Data was measured by In-Situ Level Mini-Troll
[Hermit Data Logger, Manually with Water Level Indicator, etc. (list method)].

Complete the following table for each well tested.

COMPLETE A SECOND SHEET IF MORE THAN FOUR WELLS ARE TESTED

Slug Test Conducted in Well(s) Number	12430-MW18I	12430-MW27I		
Time Performed (military)	1145	1525		
Static Water Level (feet)	20.87 ft BTOC	12.93 ft BTOC		
Initial Rise/Drawdown in Well (+/- feet)	2.342 / 2.13	2.973 / 2.19		
Radius of Well Casing (feet)	0.083	0.083		
Effective Radius of Well (feet)	0.3125	0.3125		
Static Saturated Aquifer Thickness (feet)	44.13	38.80		
Length of Well Screen (feet)	5.00	5.00		

Calculations

See Appendix _____ Table 3 Figure _____ for calculations (complete as appropriate).

The method for Aquifer calculations was Bouwer & Rice (i.e. Bouwer-Rice, Cooper, etc.).

The Aquifer is ☐ confined ☐ semi-confined ☑ water table (check as appropriate).

A hydraulic gradient of 0.0011 / 0.0006

Calculated values by well were as follows:

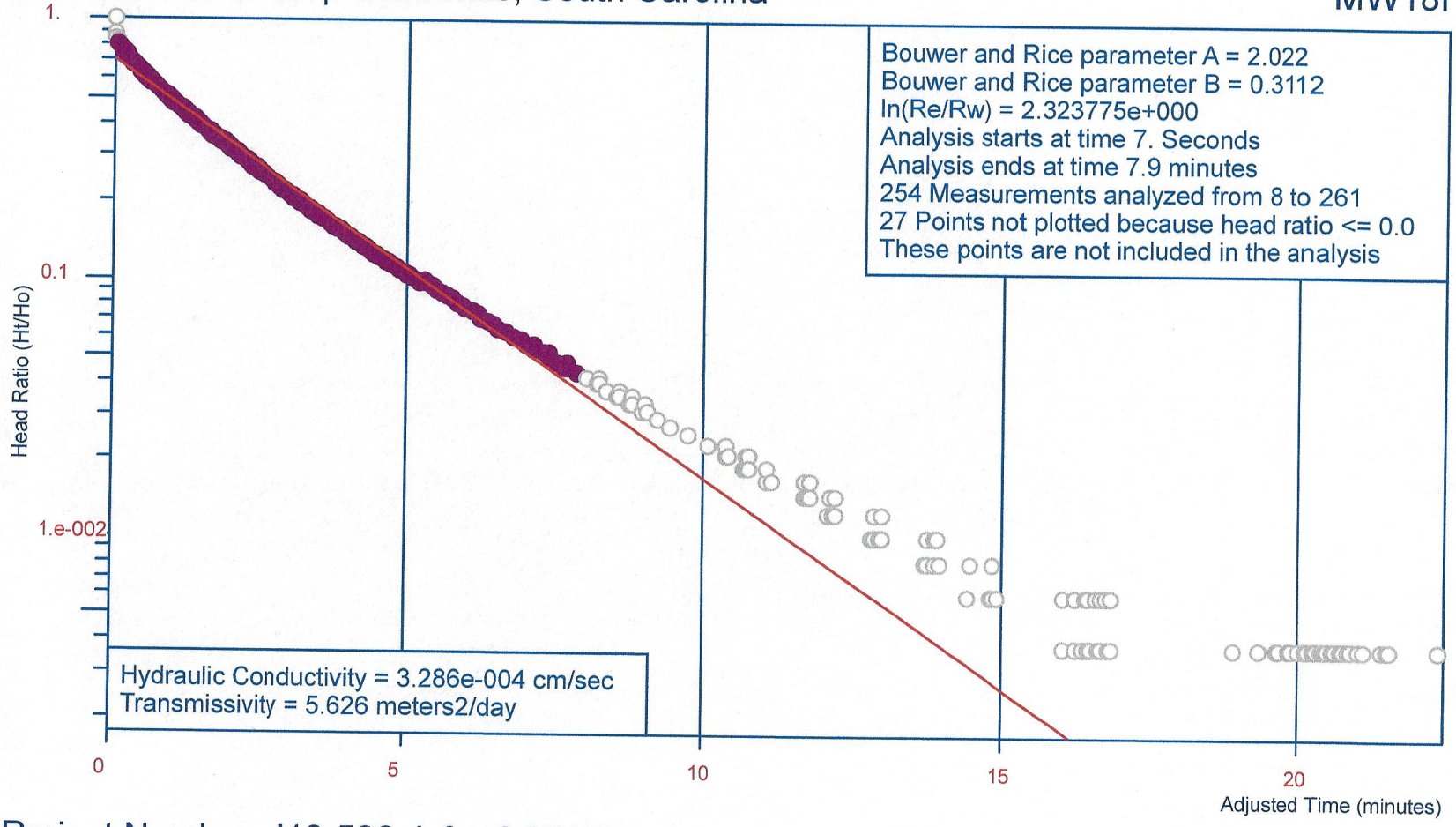
Slug Test Conducted in Well(s) Number	12430-MW18I	12430-MW127I		
Thickness of Aquifer (feet)	65	65		
Hydraulic Conductivity (feet/ year)	340.00 / 255.78	340.31 / 291.99		
Effective Porosity (%)	0.27	0.27		
Soil Type (i.e., silty sand, clay, etc.)	sandy silt	sandy silt		
Seepage Velocity (feet/ year)	0.76 / 0.57	0.76 / 0.65		

Slug In 03/12/2018

Westside Quick Stop Greenville, South Carolina

Bouwer and Rice Graph

MW18I



Project Number: J18-528-A for SCDHEC

Analysis by Starpoint Software

Ho is 2.342 feet at 3. Seconds

Slug In

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	03/12/2018
Client:	SCDHEC
Project Number:	J18-528-A
Import File:	C:\Users\Tslack\Documents\Sync\Petra-Tech Environmental\Public\528 - Westsi

Well Label:	MW18I
Aquifer Thickness:	65. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	20.87 feet
Water Table to Screen Bottom:	44.13 feet
Anisotropy Ratio:	1.
Time Adjustment:	3. Seconds

Test starts with trial 3
There are 391 time and drawdown measurements
Maximum head is 2.342 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-3.	20.87	0.	0.
2	1.	-2.	18.74	2.13	0.9095
3	2.	-1.	18.9	1.968	0.8403
4	3.	0.	18.53	2.342	1.
5	4.	1.	18.79	2.076	0.8864
6	5.	2.	18.9	1.968	0.8403
7	6.	3.	18.94	1.929	0.8237
8	7.	4.	18.97	1.899	0.8108
9	8.	5.	19.	1.875	0.8006
10	9.	6.	19.02	1.85	0.7899
11	10.	7.	19.05	1.825	0.7792
12	11.	8.	19.06	1.806	0.7711
13	12.	9.	19.08	1.786	0.7626
14	13.	10.	19.1	1.766	0.7541
15	14.	11.	19.12	1.747	0.7459
16	15.	12.	19.14	1.727	0.7374
17	16.	13.	19.16	1.707	0.7289
18	17.	14.	19.18	1.688	0.7208
19	18.	15.	19.2	1.668	0.7122
20	19.	16.	19.22	1.653	0.7058
21	20.	17.	19.24	1.633	0.6973
22	21.	18.	19.25	1.619	0.6913
23	22.	19.	19.27	1.599	0.6827
24	23.	20.	19.29	1.584	0.6763
25	24.	21.	19.3	1.569	0.6699
26	25.	22.	19.32	1.555	0.664
27	26.	23.	19.33	1.54	0.6576
28	27.	24.	19.34	1.535	0.6554
29	28.	25.	19.35	1.52	0.649
30	29.	26.	19.36	1.505	0.6426
31	30.	27.	19.38	1.491	0.6366
32	31.	28.	19.39	1.476	0.6302
33	32.	29.	19.41	1.461	0.6238

34	33.	30.	19.42	1.451	0.6196
35	34.	31.	19.43	1.437	0.6136
36	35.	32.	19.45	1.422	0.6072
37	36.	33.	19.46	1.412	0.6029
38	37.	34.	19.47	1.397	0.5965
39	38.	35.	19.48	1.387	0.5922
40	39.	36.	19.49	1.377	0.588
41	40.	37.	19.51	1.363	0.582
42	41.	38.	19.52	1.353	0.5777
43	42.	39.	19.53	1.343	0.5734
44	43.	40.	19.54	1.333	0.5692
45	44.	41.	19.55	1.318	0.5628
46	45.	42.	19.56	1.309	0.5589
47	46.	43.	19.57	1.299	0.5547
48	47.	44.	19.58	1.289	0.5504
49	48.	45.	19.6	1.274	0.544
50	49.	46.	19.61	1.264	0.5397
51	50.	47.	19.62	1.254	0.5354
52	51.	48.	19.63	1.245	0.5316
53	52.	49.	19.64	1.235	0.5273
54	53.	50.	19.65	1.225	0.5231
55	54.	51.	19.66	1.215	0.5188
56	55.	52.	19.66	1.21	0.5167
57	56.	53.	19.67	1.2	0.5124
58	57.	54.	19.68	1.19	0.5081
59	58.	55.	19.69	1.181	0.5043
60	59.	56.	19.7	1.171	0.5
61	60.	57.	19.71	1.161	0.4957
62	61.	58.	19.72	1.151	0.4915
63	62.	59.	19.72	1.146	0.4893
64	63.	60.	19.73	1.136	0.4851
65	64.	61.	19.74	1.126	0.4808
66	65.	62.	19.75	1.117	0.4769
67	66.	63.	19.76	1.107	0.4727
68	67.	64.	19.77	1.102	0.4705
69	68.	65.	19.78	1.092	0.4663
70	69.	66.	19.78	1.087	0.4641
71	70.	67.	19.79	1.077	0.4599
72	71.	68.	19.8	1.067	0.4556
73	72.	69.	19.81	1.063	0.4539
74	73.	70.	19.82	1.053	0.4496
75	74.	71.	19.82	1.048	0.4475
76	75.	72.	19.83	1.038	0.4432
77	76.	73.	19.84	1.033	0.4411
78	77.	74.	19.85	1.023	0.4368
79	78.	75.	19.85	1.018	0.4347
80	79.	76.	19.86	1.008	0.4304
81	80.	77.	19.87	1.003	0.4283
82	81.	78.	19.88	0.994	0.4244
83	82.	79.	19.88	0.989	0.4223
84	83.	80.	19.89	0.979	0.418
85	84.	81.	19.9	0.974	0.4159
86	85.	82.	19.9	0.969	0.4137
87	86.	83.	19.91	0.959	0.4095
88	87.	84.	19.92	0.949	0.4052
89	88.	85.	19.93	0.944	0.4031
90	89.	86.	19.93	0.939	0.4009

91	90.	87.	19.94	0.93	0.3971
92	91.	88.	19.95	0.925	0.395
93	92.	89.	19.95	0.92	0.3928
94	93.	90.	19.96	0.91	0.3886
95	94.	91.	19.97	0.905	0.3864
96	95.	92.	19.97	0.9	0.3843
97	96.	93.	19.98	0.895	0.3822
98	97.	94.	19.98	0.885	0.3779
99	98.	95.	19.99	0.88	0.3757
100	99.	96.	19.99	0.876	0.374
101	100.	97.	20.	0.866	0.3698
102	101.	98.	20.01	0.861	0.3676
103	102.	99.	20.01	0.856	0.3655
104	103.	100.	20.02	0.851	0.3634
105	104.	101.	20.02	0.846	0.3612
106	105.	102.	20.03	0.836	0.357
107	106.	103.	20.04	0.831	0.3548
108	107.	104.	20.04	0.826	0.3527
109	108.	105.	20.05	0.821	0.3506
110	109.	106.	20.05	0.816	0.3484
111	110.	107.	20.06	0.812	0.3467
112	111.	108.	20.06	0.807	0.3446
113	112.	109.	20.07	0.797	0.3403
114	113.	110.	20.08	0.792	0.3382
115	114.	111.	20.08	0.787	0.336
116	115.	112.	20.08	0.792	0.3382
117	116.	113.	20.08	0.787	0.336
118	117.	114.	20.09	0.777	0.3318
119	118.	115.	20.1	0.772	0.3296
120	119.	116.	20.1	0.767	0.3275
121	120.	117.	20.11	0.762	0.3254
122	121.	118.	20.11	0.758	0.3237
123	122.	119.	20.12	0.752	0.3211
124	123.	120.	20.12	0.748	0.3194
125	124.	121.	20.13	0.743	0.3173
126	125.	122.	20.13	0.738	0.3151
127	126.	123.	20.14	0.733	0.313
128	127.	124.	20.14	0.728	0.3108
129	128.	125.	20.15	0.723	0.3087
130	129.	126.	20.15	0.718	0.3066
131	130.	127.	20.16	0.713	0.3044
132	131.	128.	20.16	0.708	0.3023
133	132.	129.	20.17	0.703	0.3002
134	133.	130.	20.17	0.698	0.298
135	134.	131.	20.18	0.693	0.2959
136	136.	133.	20.19	0.684	0.2921
137	137.	134.	20.19	0.679	0.2899
138	139.	136.	20.2	0.674	0.2878
139	140.	137.	20.2	0.669	0.2857
140	141.	138.	20.21	0.664	0.2835
141	142.	139.	20.21	0.659	0.2814
142	143.	140.	20.22	0.654	0.2792
143	144.	141.	20.22	0.649	0.2771
144	145.	142.	20.23	0.644	0.275
145	146.	143.	20.23	0.639	0.2728
146	148.	145.	20.24	0.634	0.2707
147	149.	146.	20.24	0.629	0.2686

148	150.	147.	20.25	0.625	0.2669
149	151.	148.	20.25	0.62	0.2647
150	152.	149.	20.25	0.615	0.2626
151	153.	150.	20.26	0.61	0.2605
152	155.	152.	20.27	0.605	0.2583
153	156.	153.	20.27	0.6	0.2562
154	158.	155.	20.27	0.595	0.2541
155	159.	156.	20.28	0.59	0.2519
156	160.	157.	20.29	0.585	0.2498
157	162.	159.	20.29	0.58	0.2477
158	163.	160.	20.3	0.575	0.2455
159	164.	161.	20.3	0.57	0.2434
160	166.	163.	20.31	0.561	0.2395
161	168.	165.	20.31	0.556	0.2374
162	169.	166.	20.32	0.551	0.2353
163	170.	167.	20.32	0.546	0.2331
164	172.	169.	20.33	0.541	0.231
165	173.	170.	20.33	0.536	0.2289
166	175.	172.	20.34	0.531	0.2267
167	176.	173.	20.34	0.526	0.2246
168	177.	174.	20.35	0.521	0.2225
169	179.	176.	20.35	0.516	0.2203
170	181.	178.	20.36	0.511	0.2182
171	182.	179.	20.36	0.506	0.2161
172	184.	181.	20.37	0.501	0.2139
173	186.	183.	20.37	0.497	0.2122
174	187.	184.	20.38	0.492	0.2101
175	189.	186.	20.38	0.487	0.2079
176	190.	187.	20.39	0.482	0.2058
177	191.	188.	20.39	0.477	0.2037
178	194.	191.	20.4	0.472	0.2015
179	195.	192.	20.4	0.467	0.1994
180	197.	194.	20.41	0.462	0.1973
181	198.	195.	20.41	0.457	0.1951
182	201.	198.	20.42	0.452	0.193
183	202.	199.	20.42	0.447	0.1909
184	204.	201.	20.43	0.442	0.1887
185	206.	203.	20.43	0.438	0.187
186	207.	204.	20.44	0.433	0.1849
187	209.	206.	20.44	0.428	0.1827
188	211.	208.	20.45	0.423	0.1806
189	213.	210.	20.45	0.418	0.1785
190	215.	212.	20.46	0.413	0.1763
191	217.	214.	20.46	0.408	0.1742
192	219.	216.	20.47	0.403	0.1721
193	221.	218.	20.47	0.398	0.1699
194	223.	220.	20.48	0.393	0.1678
195	225.	222.	20.48	0.388	0.1657
196	227.	224.	20.49	0.383	0.1635
197	229.	226.	20.49	0.378	0.1614
198	231.	228.	20.5	0.374	0.1597
199	234.	231.	20.5	0.369	0.1576
200	236.	233.	20.51	0.364	0.1554
201	238.	235.	20.51	0.359	0.1533
202	241.	238.	20.52	0.354	0.1512
203	243.	240.	20.52	0.349	0.149
204	245.	242.	20.53	0.344	0.1469

205	247.	244.	20.53	0.339	0.1447
206	249.	246.	20.54	0.334	0.1426
207	252.	249.	20.54	0.329	0.1405
208	255.	252.	20.55	0.324	0.1383
209	257.	254.	20.55	0.319	0.1362
210	259.	256.	20.56	0.314	0.1341
211	262.	259.	20.56	0.31	0.1324
212	265.	262.	20.57	0.305	0.1302
213	268.	265.	20.57	0.3	0.1281
214	271.	268.	20.57	0.295	0.126
215	273.	270.	20.58	0.29	0.1238
216	276.	273.	20.59	0.285	0.1217
217	279.	276.	20.59	0.28	0.1196
218	282.	279.	20.59	0.275	0.1174
219	285.	282.	20.6	0.27	0.1153
220	289.	286.	20.61	0.265	0.1132
221	292.	289.	20.61	0.26	0.111
222	296.	293.	20.61	0.255	0.1089
223	300.	297.	20.62	0.251	0.1072
224	302.	299.	20.62	0.246	0.105
225	306.	303.	20.63	0.241	0.1029
226	309.	306.	20.63	0.236	0.1008
227	313.	310.	20.64	0.231	9.863e-002
228	316.	313.	20.64	0.226	9.65e-002
229	321.	318.	20.64	0.231	9.863e-002
230	323.	320.	20.64	0.226	9.65e-002
231	328.	325.	20.65	0.221	9.436e-002
232	331.	328.	20.65	0.216	9.223e-002
233	335.	332.	20.66	0.211	9.009e-002
234	339.	336.	20.66	0.206	8.796e-002
235	344.	341.	20.67	0.201	8.582e-002
236	348.	345.	20.67	0.196	8.369e-002
237	353.	350.	20.68	0.191	8.155e-002
238	359.	356.	20.68	0.187	7.985e-002
239	363.	360.	20.69	0.182	7.771e-002
240	369.	366.	20.69	0.177	7.558e-002
241	374.	371.	20.7	0.172	7.344e-002
242	378.	375.	20.7	0.167	7.131e-002
243	385.	382.	20.71	0.162	6.917e-002
244	391.	388.	20.71	0.157	6.704e-002
245	395.	392.	20.72	0.152	6.49e-002
246	404.	401.	20.72	0.147	6.277e-002
247	410.	407.	20.73	0.142	6.063e-002
248	417.	414.	20.73	0.137	5.85e-002
249	423.	420.	20.74	0.133	5.679e-002
250	430.	427.	20.74	0.127	5.423e-002
251	431.	428.	20.74	0.133	5.679e-002
252	432.	429.	20.74	0.127	5.423e-002
253	440.	437.	20.75	0.123	5.252e-002
254	445.	442.	20.75	0.118	5.038e-002
255	446.	443.	20.75	0.123	5.252e-002
256	447.	444.	20.75	0.118	5.038e-002
257	455.	452.	20.76	0.113	4.825e-002
258	462.	459.	20.76	0.108	4.611e-002
259	463.	460.	20.76	0.113	4.825e-002
260	464.	461.	20.76	0.108	4.611e-002
261	474.	471.	20.77	0.103	4.398e-002

262	485.	482.	20.77	9.8e-002	4.184e-002
263	494.	491.	20.78	9.3e-002	3.971e-002
264	496.	493.	20.77	9.8e-002	4.184e-002
265	497.	494.	20.78	9.3e-002	3.971e-002
266	504.	501.	20.78	8.8e-002	3.757e-002
267	515.	512.	20.79	8.3e-002	3.544e-002
268	517.	514.	20.78	8.8e-002	3.757e-002
269	518.	515.	20.79	8.3e-002	3.544e-002
270	528.	525.	20.79	7.8e-002	3.33e-002
271	530.	527.	20.79	8.3e-002	3.544e-002
272	531.	528.	20.79	7.8e-002	3.33e-002
273	541.	538.	20.8	7.3e-002	3.117e-002
274	544.	541.	20.79	7.8e-002	3.33e-002
275	545.	542.	20.8	7.3e-002	3.117e-002
276	556.	553.	20.8	6.8e-002	2.904e-002
277	570.	567.	20.81	6.4e-002	2.733e-002
278	587.	584.	20.81	5.9e-002	2.519e-002
279	606.	603.	20.82	5.4e-002	2.306e-002
280	624.	621.	20.82	4.9e-002	2.092e-002
281	626.	623.	20.82	5.4e-002	2.306e-002
282	627.	624.	20.82	4.9e-002	2.092e-002
283	644.	641.	20.83	4.4e-002	1.879e-002
284	645.	642.	20.82	4.9e-002	2.092e-002
285	646.	643.	20.83	4.4e-002	1.879e-002
286	647.	644.	20.82	4.9e-002	2.092e-002
287	648.	645.	20.83	4.4e-002	1.879e-002
288	666.	663.	20.83	3.9e-002	1.665e-002
289	667.	664.	20.83	4.4e-002	1.879e-002
290	670.	667.	20.83	3.9e-002	1.665e-002
291	703.	700.	20.84	3.4e-002	1.452e-002
292	705.	702.	20.83	3.9e-002	1.665e-002
293	706.	703.	20.84	3.4e-002	1.452e-002
294	709.	706.	20.83	3.9e-002	1.665e-002
295	710.	707.	20.84	3.4e-002	1.452e-002
296	728.	725.	20.84	2.9e-002	1.238e-002
297	730.	727.	20.84	3.4e-002	1.452e-002
298	733.	730.	20.84	2.9e-002	1.238e-002
299	735.	732.	20.84	3.4e-002	1.452e-002
300	736.	733.	20.84	2.9e-002	1.238e-002
301	771.	768.	20.85	2.4e-002	1.025e-002
302	772.	769.	20.84	2.9e-002	1.238e-002
303	773.	770.	20.85	2.4e-002	1.025e-002
304	774.	771.	20.84	2.9e-002	1.238e-002
305	777.	774.	20.85	2.4e-002	1.025e-002
306	780.	777.	20.84	2.9e-002	1.238e-002
307	781.	778.	20.85	2.4e-002	1.025e-002
308	825.	822.	20.85	1.9e-002	8.113e-003
309	826.	823.	20.85	2.4e-002	1.025e-002
310	827.	824.	20.85	1.9e-002	8.113e-003
311	834.	831.	20.85	2.4e-002	1.025e-002
312	835.	832.	20.85	1.9e-002	8.113e-003
313	838.	835.	20.85	2.4e-002	1.025e-002
314	839.	836.	20.85	1.9e-002	8.113e-003
315	868.	865.	20.86	1.4e-002	5.978e-003
316	869.	866.	20.85	1.9e-002	8.113e-003
317	890.	887.	20.86	1.4e-002	5.978e-003
318	892.	889.	20.85	1.9e-002	8.113e-003

319	893.	890.	20.86	1.4e-002	5.978e-003
320	894.	891.	20.85	1.9e-002	8.113e-003
321	897.	894.	20.86	1.4e-002	5.978e-003
322	964.	961.	20.86	9.e-003	3.843e-003
323	965.	962.	20.86	1.4e-002	5.978e-003
324	977.	974.	20.86	9.e-003	3.843e-003
325	978.	975.	20.86	1.4e-002	5.978e-003
326	984.	981.	20.86	9.e-003	3.843e-003
327	987.	984.	20.86	1.4e-002	5.978e-003
328	989.	986.	20.86	9.e-003	3.843e-003
329	991.	988.	20.86	1.4e-002	5.978e-003
330	993.	990.	20.86	9.e-003	3.843e-003
331	999.	996.	20.86	1.4e-002	5.978e-003
332	1000	997.	20.86	9.e-003	3.843e-003
333	1003	1000	20.86	1.4e-002	5.978e-003
334	1004	1001	20.86	9.e-003	3.843e-003
335	1009	1006	20.86	1.4e-002	5.978e-003
336	1010	1007	20.86	9.e-003	3.843e-003
337	1012	1009	20.86	1.4e-002	5.978e-003
338	1013	1010	20.86	9.e-003	3.843e-003
339	1135	1132	20.87	4.e-003	1.708e-003
340	1136	1133	20.86	9.e-003	3.843e-003
341	1160	1157	20.87	4.e-003	1.708e-003
342	1161	1158	20.86	9.e-003	3.843e-003
343	1179	1176	20.87	4.e-003	1.708e-003
344	1180	1177	20.86	9.e-003	3.843e-003
345	1182	1179	20.87	4.e-003	1.708e-003
346	1183	1180	20.86	9.e-003	3.843e-003
347	1190	1187	20.87	4.e-003	1.708e-003
348	1192	1189	20.86	9.e-003	3.843e-003
349	1193	1190	20.87	4.e-003	1.708e-003
350	1194	1191	20.86	9.e-003	3.843e-003
351	1201	1198	20.87	4.e-003	1.708e-003
352	1202	1199	20.86	9.e-003	3.843e-003
353	1209	1206	20.87	4.e-003	1.708e-003
354	1210	1207	20.86	9.e-003	3.843e-003
355	1212	1209	20.87	4.e-003	1.708e-003
356	1213	1210	20.86	9.e-003	3.843e-003
357	1216	1213	20.87	4.e-003	1.708e-003
358	1217	1214	20.86	9.e-003	3.843e-003
359	1218	1215	20.87	4.e-003	1.708e-003
360	1219	1216	20.86	9.e-003	3.843e-003
361	1220	1217	20.87	4.e-003	1.708e-003
362	1225	1222	20.86	9.e-003	3.843e-003
363	1227	1224	20.87	4.e-003	1.708e-003
364	1229	1226	20.86	9.e-003	3.843e-003
365	1230	1227	20.87	4.e-003	1.708e-003
366	1231	1228	20.86	9.e-003	3.843e-003
367	1232	1229	20.87	4.e-003	1.708e-003
368	1235	1232	20.86	9.e-003	3.843e-003
369	1237	1234	20.87	4.e-003	1.708e-003
370	1239	1236	20.86	9.e-003	3.843e-003
371	1240	1237	20.87	4.e-003	1.708e-003
372	1242	1239	20.86	9.e-003	3.843e-003
373	1244	1241	20.87	4.e-003	1.708e-003
374	1246	1243	20.86	9.e-003	3.843e-003
375	1247	1244	20.87	4.e-003	1.708e-003

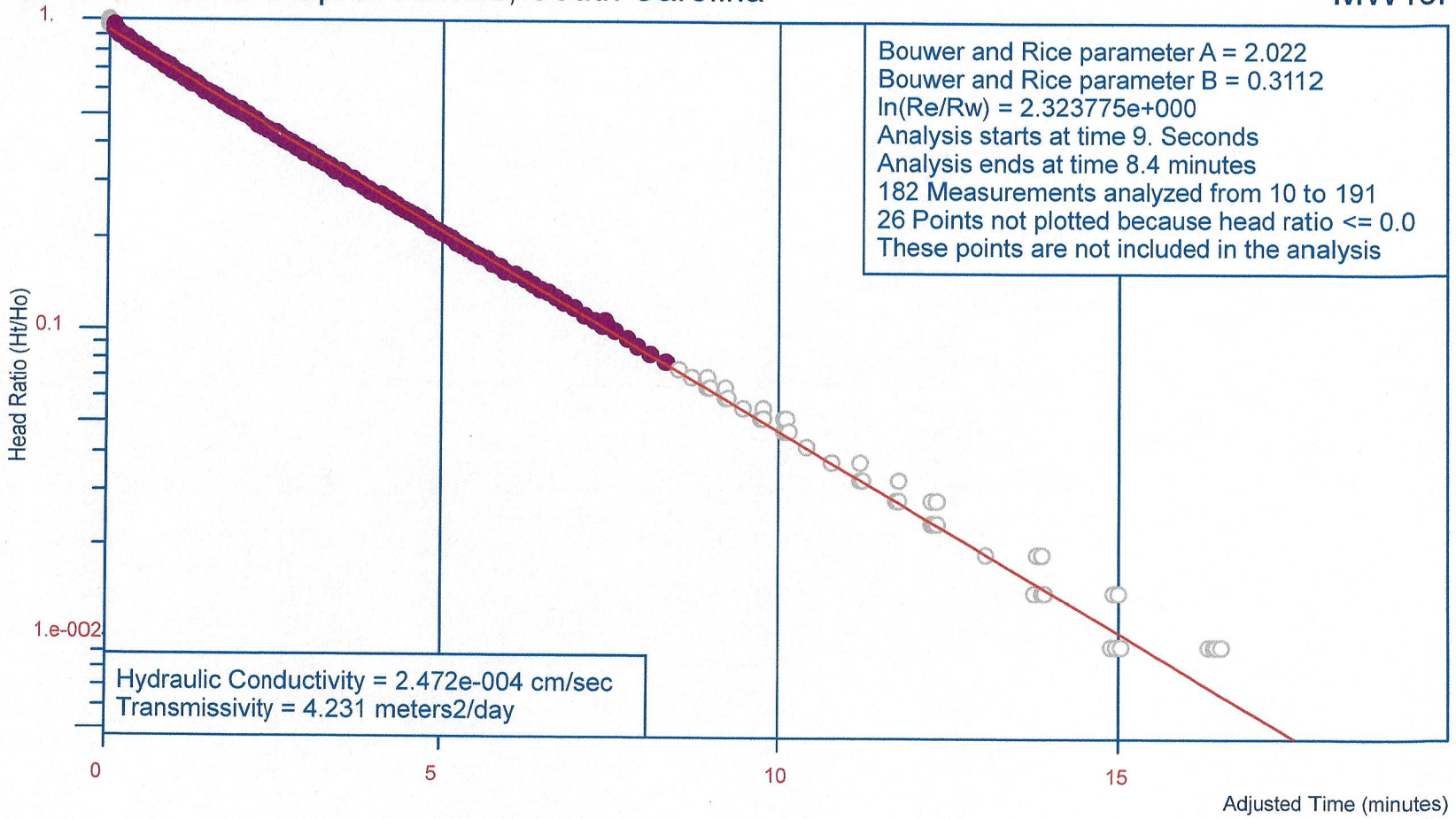
376	1250	1247	20.86	9.e-003	3.843e-003
377	1251	1248	20.87	4.e-003	1.708e-003
378	1254	1251	20.86	9.e-003	3.843e-003
379	1255	1252	20.87	4.e-003	1.708e-003
380	1261	1258	20.86	9.e-003	3.843e-003
381	1262	1259	20.87	4.e-003	1.708e-003
382	1266	1263	20.86	9.e-003	3.843e-003
383	1267	1264	20.87	4.e-003	1.708e-003
384	1285	1282	20.86	9.e-003	3.843e-003
385	1286	1283	20.87	4.e-003	1.708e-003
386	1289	1286	20.86	9.e-003	3.843e-003
387	1290	1287	20.87	4.e-003	1.708e-003
388	1292	1289	20.86	9.e-003	3.843e-003
389	1293	1290	20.87	4.e-003	1.708e-003
390	1340	1337	20.86	9.e-003	3.843e-003
391	1341	1338	20.87	4.e-003	1.708e-003

Slug Out 03/12/2018

Bouwer and Rice Graph

Westside Quick Stop Greenville, South Carolina

MW18I



Project Number: J18-528-A for SCDHEC

Analysis by Starpoint Software

Ho is 2.13 feet at 4. Seconds

Slug Out

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	03/12/2018
Client:	SCDHEC
Project Number:	J18-528-A
Import File:	C:\Users\Tslack\Documents\Sync\Petra-Tech Environmental\Public\528 - Westsi

Well Label:	MW18I
Aquifer Thickness:	65. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	20.87 feet
Water Table to Screen Bottom:	44.13 feet
Anisotropy Ratio:	1.
Time Adjustment:	4. Seconds

Test starts with trial 4
There are 262 time and drawdown measurements
Maximum head is 2.13 feet
Minimum head is 0. feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-4.	20.87	0.	0.
2	1.	-3.	21.1	0.23	0.108
3	2.	-2.	21.36	0.49	0.23
4	3.	-1.	22.42	1.55	0.7277
5	4.	0.	23.	2.13	1.
6	5.	1.	22.96	2.09	0.9812
7	6.	2.	22.94	2.07	0.9718
8	7.	3.	22.92	2.05	0.9624
9	8.	4.	22.9	2.03	0.9531
10	9.	5.	22.94	2.07	0.9718
11	10.	6.	22.86	1.99	0.9343
12	11.	7.	22.85	1.98	0.9296
13	12.	8.	22.83	1.96	0.9202
14	13.	9.	22.82	1.95	0.9155
15	14.	10.	22.8	1.93	0.9061
16	15.	11.	22.79	1.92	0.9014
17	16.	12.	22.78	1.91	0.8967
18	17.	13.	22.77	1.9	0.892
19	18.	14.	22.75	1.88	0.8826
20	20.	16.	22.74	1.87	0.8779
21	21.	17.	22.73	1.86	0.8732
22	22.	18.	22.71	1.84	0.8638
23	23.	19.	22.7	1.83	0.8592
24	24.	20.	22.69	1.82	0.8545
25	25.	21.	22.68	1.81	0.8498
26	26.	22.	22.67	1.8	0.8451
27	27.	23.	22.66	1.79	0.8404
28	28.	24.	22.65	1.78	0.8357
29	29.	25.	22.64	1.77	0.831
30	30.	26.	22.63	1.76	0.8263
31	31.	27.	22.62	1.75	0.8216
32	32.	28.	22.61	1.74	0.8169
33	33.	29.	22.6	1.73	0.8122

34	34.	30.	22.59	1.72	0.8075
35	35.	31.	22.58	1.71	0.8028
36	36.	32.	22.57	1.7	0.7981
37	37.	33.	22.56	1.69	0.7934
38	38.	34.	22.55	1.68	0.7887
39	40.	36.	22.54	1.67	0.784
40	41.	37.	22.53	1.66	0.7793
41	42.	38.	22.52	1.65	0.7746
42	43.	39.	22.51	1.64	0.77
43	44.	40.	22.5	1.63	0.7653
44	45.	41.	22.49	1.62	0.7606
45	46.	42.	22.48	1.61	0.7559
46	47.	43.	22.47	1.6	0.7512
47	49.	45.	22.46	1.59	0.7465
48	50.	46.	22.45	1.58	0.7418
49	51.	47.	22.44	1.57	0.7371
50	53.	49.	22.43	1.56	0.7324
51	54.	50.	22.42	1.55	0.7277
52	55.	51.	22.41	1.54	0.723
53	56.	52.	22.4	1.53	0.7183
54	57.	53.	22.39	1.52	0.7136
55	59.	55.	22.38	1.51	0.7089
56	60.	56.	22.37	1.5	0.7042
57	61.	57.	22.36	1.49	0.6995
58	62.	58.	22.35	1.48	0.6948
59	64.	60.	22.34	1.47	0.6901
60	65.	61.	22.33	1.46	0.6854
61	66.	62.	22.32	1.45	0.6808
62	68.	64.	22.31	1.44	0.6761
63	69.	65.	22.3	1.43	0.6714
64	70.	66.	22.29	1.42	0.6667
65	72.	68.	22.28	1.41	0.662
66	73.	69.	22.27	1.4	0.6573
67	74.	70.	22.26	1.39	0.6526
68	76.	72.	22.25	1.38	0.6479
69	77.	73.	22.24	1.37	0.6432
70	79.	75.	22.23	1.36	0.6385
71	80.	76.	22.22	1.35	0.6338
72	81.	77.	22.21	1.34	0.6291
73	83.	79.	22.2	1.33	0.6244
74	84.	80.	22.19	1.32	0.6197
75	86.	82.	22.18	1.31	0.615
76	87.	83.	22.17	1.3	0.6103
77	89.	85.	22.16	1.29	0.6056
78	90.	86.	22.15	1.28	0.6009
79	91.	87.	22.14	1.27	0.5962
80	93.	89.	22.13	1.26	0.5915
81	94.	90.	22.12	1.25	0.5869
82	97.	93.	22.11	1.24	0.5822
83	98.	94.	22.1	1.23	0.5775
84	100.	96.	22.09	1.22	0.5728
85	102.	98.	22.08	1.21	0.5681
86	103.	99.	22.07	1.2	0.5634
87	105.	101.	22.06	1.19	0.5587
88	106.	102.	22.05	1.18	0.554
89	108.	104.	22.04	1.17	0.5493
90	110.	106.	22.03	1.16	0.5446

91	111.	107.	22.02	1.15	0.5399
92	113.	109.	22.01	1.14	0.5352
93	115.	111.	22.	1.13	0.5305
94	117.	113.	21.99	1.12	0.5258
95	118.	114.	21.98	1.11	0.5211
96	120.	116.	21.97	1.1	0.5164
97	122.	118.	21.96	1.09	0.5117
98	124.	120.	21.95	1.08	0.507
99	125.	121.	21.94	1.07	0.5023
100	127.	123.	21.93	1.06	0.4977
101	129.	125.	21.92	1.05	0.493
102	131.	127.	21.91	1.04	0.4883
103	133.	129.	21.9	1.03	0.4836
104	135.	131.	21.89	1.02	0.4789
105	136.	132.	21.88	1.01	0.4742
106	138.	134.	21.87	1.	0.4695
107	140.	136.	21.86	0.99	0.4648
108	142.	138.	21.85	0.98	0.4601
109	144.	140.	21.84	0.97	0.4554
110	146.	142.	21.83	0.96	0.4507
111	148.	144.	21.82	0.95	0.446
112	150.	146.	21.81	0.94	0.4413
113	154.	150.	21.8	0.93	0.4366
114	156.	152.	21.79	0.92	0.4319
115	158.	154.	21.78	0.91	0.4272
116	160.	156.	21.77	0.9	0.4225
117	162.	158.	21.76	0.89	0.4178
118	164.	160.	21.75	0.88	0.4131
119	167.	163.	21.74	0.87	0.4085
120	169.	165.	21.73	0.86	0.4038
121	171.	167.	21.72	0.85	0.3991
122	174.	170.	21.71	0.84	0.3944
123	176.	172.	21.7	0.83	0.3897
124	178.	174.	21.69	0.82	0.385
125	181.	177.	21.68	0.81	0.3803
126	183.	179.	21.67	0.8	0.3756
127	186.	182.	21.66	0.79	0.3709
128	188.	184.	21.65	0.78	0.3662
129	191.	187.	21.64	0.77	0.3615
130	193.	189.	21.63	0.76	0.3568
131	196.	192.	21.62	0.75	0.3521
132	199.	195.	21.61	0.74	0.3474
133	201.	197.	21.6	0.73	0.3427
134	204.	200.	21.59	0.72	0.338
135	206.	202.	21.58	0.71	0.3333
136	210.	206.	21.57	0.7	0.3286
137	213.	209.	21.56	0.69	0.3239
138	215.	211.	21.55	0.68	0.3192
139	218.	214.	21.54	0.67	0.3146
140	221.	217.	21.53	0.66	0.3099
141	225.	221.	21.52	0.65	0.3052
142	228.	224.	21.51	0.64	0.3005
143	231.	227.	21.5	0.63	0.2958
144	235.	231.	21.49	0.62	0.2911
145	239.	235.	21.48	0.61	0.2864
146	242.	238.	21.47	0.6	0.2817
147	245.	241.	21.46	0.59	0.277

148	249.	245.	21.45	0.58	0.2723
149	252.	248.	21.44	0.57	0.2676
150	256.	252.	21.43	0.56	0.2629
151	259.	255.	21.42	0.55	0.2582
152	263.	259.	21.41	0.54	0.2535
153	266.	262.	21.4	0.53	0.2488
154	270.	266.	21.39	0.52	0.2441
155	274.	270.	21.38	0.51	0.2394
156	279.	275.	21.37	0.5	0.2347
157	283.	279.	21.36	0.49	0.23
158	287.	283.	21.35	0.48	0.2254
159	290.	286.	21.34	0.47	0.2207
160	295.	291.	21.33	0.46	0.216
161	300.	296.	21.32	0.45	0.2113
162	304.	300.	21.31	0.44	0.2066
163	310.	306.	21.3	0.43	0.2019
164	314.	310.	21.29	0.42	0.1972
165	318.	314.	21.28	0.41	0.1925
166	323.	319.	21.27	0.4	0.1878
167	328.	324.	21.26	0.39	0.1831
168	333.	329.	21.25	0.38	0.1784
169	339.	335.	21.24	0.37	0.1737
170	344.	340.	21.23	0.36	0.169
171	350.	346.	21.22	0.35	0.1643
172	356.	352.	21.21	0.34	0.1596
173	362.	358.	21.2	0.33	0.1549
174	369.	365.	21.19	0.32	0.1502
175	378.	374.	21.18	0.31	0.1455
176	385.	381.	21.17	0.3	0.1408
177	392.	388.	21.16	0.29	0.1362
178	400.	396.	21.15	0.28	0.1315
179	406.	402.	21.14	0.27	0.1268
180	414.	410.	21.13	0.26	0.1221
181	423.	419.	21.12	0.25	0.1174
182	432.	428.	21.11	0.24	0.1127
183	440.	436.	21.1	0.23	0.108
184	448.	444.	21.09	0.22	0.1033
185	449.	445.	21.1	0.23	0.108
186	451.	447.	21.09	0.22	0.1033
187	459.	455.	21.08	0.21	9.859e-002
188	469.	465.	21.07	0.2	9.39e-002
189	479.	475.	21.06	0.19	8.92e-002
190	491.	487.	21.05	0.18	8.451e-002
191	504.	500.	21.04	0.17	7.981e-002
192	515.	511.	21.03	0.16	7.512e-002
193	527.	523.	21.02	0.15	7.042e-002
194	539.	535.	21.01	0.14	6.573e-002
195	540.	536.	21.02	0.15	7.042e-002
196	542.	538.	21.01	0.14	6.573e-002
197	556.	552.	21.	0.13	6.103e-002
198	557.	553.	21.01	0.14	6.573e-002
199	558.	554.	21.	0.13	6.103e-002
200	571.	567.	20.99	0.12	5.634e-002
201	588.	584.	20.98	0.11	5.164e-002
202	589.	585.	20.99	0.12	5.634e-002
203	591.	587.	20.98	0.11	5.164e-002
204	608.	604.	20.97	1.e-001	4.695e-002

205	609.	605.	20.98	0.11	5.164e-002
206	610.	606.	20.97	1.e-001	4.695e-002
207	611.	607.	20.98	0.11	5.164e-002
208	612.	608.	20.97	1.e-001	4.695e-002
209	628.	624.	20.96	9.e-002	4.225e-002
210	651.	647.	20.95	8.e-002	3.756e-002
211	675.	671.	20.94	7.e-002	3.286e-002
212	676.	672.	20.95	8.e-002	3.756e-002
213	678.	674.	20.94	7.e-002	3.286e-002
214	708.	704.	20.93	6.e-002	2.817e-002
215	710.	706.	20.94	7.e-002	3.286e-002
216	711.	707.	20.93	6.e-002	2.817e-002
217	739.	735.	20.92	5.e-002	2.347e-002
218	740.	736.	20.93	6.e-002	2.817e-002
219	741.	737.	20.92	5.e-002	2.347e-002
220	743.	739.	20.93	6.e-002	2.817e-002
221	745.	741.	20.92	5.e-002	2.347e-002
222	787.	783.	20.91	4.e-002	1.878e-002
223	831.	827.	20.9	3.e-002	1.408e-002
224	832.	828.	20.91	4.e-002	1.878e-002
225	836.	832.	20.9	3.e-002	1.408e-002
226	837.	833.	20.91	4.e-002	1.878e-002
227	839.	835.	20.9	3.e-002	1.408e-002
228	899.	895.	20.89	2.e-002	9.39e-003
229	900.	896.	20.9	3.e-002	1.408e-002
230	903.	899.	20.89	2.e-002	9.39e-003
231	905.	901.	20.9	3.e-002	1.408e-002
232	907.	903.	20.89	2.e-002	9.39e-003
233	985.	981.	20.88	1.e-002	4.695e-003
234	986.	982.	20.89	2.e-002	9.39e-003
235	989.	985.	20.88	1.e-002	4.695e-003
236	991.	987.	20.89	2.e-002	9.39e-003
237	993.	989.	20.88	1.e-002	4.695e-003
238	994.	990.	20.89	2.e-002	9.39e-003
239	996.	992.	20.88	1.e-002	4.695e-003
240	998.	994.	20.89	2.e-002	9.39e-003
241	999.	995.	20.88	1.e-002	4.695e-003
242	1132	1128	20.87	0.	0.
243	1133	1129	20.88	1.e-002	4.695e-003
244	1134	1130	20.87	0.	0.
245	1136	1132	20.88	1.e-002	4.695e-003
246	1139	1135	20.87	0.	0.
247	1141	1137	20.88	1.e-002	4.695e-003
248	1143	1139	20.87	0.	0.
249	1144	1140	20.88	1.e-002	4.695e-003
250	1152	1148	20.87	0.	0.
251	1153	1149	20.88	1.e-002	4.695e-003
252	1154	1150	20.87	0.	0.
253	1155	1151	20.88	1.e-002	4.695e-003
254	1156	1152	20.87	0.	0.
255	1159	1155	20.88	1.e-002	4.695e-003
256	1161	1157	20.87	0.	0.
257	1167	1163	20.88	1.e-002	4.695e-003
258	1168	1164	20.87	0.	0.
259	1170	1166	20.88	1.e-002	4.695e-003
260	1171	1167	20.87	0.	0.
261	1189	1185	20.88	1.e-002	4.695e-003

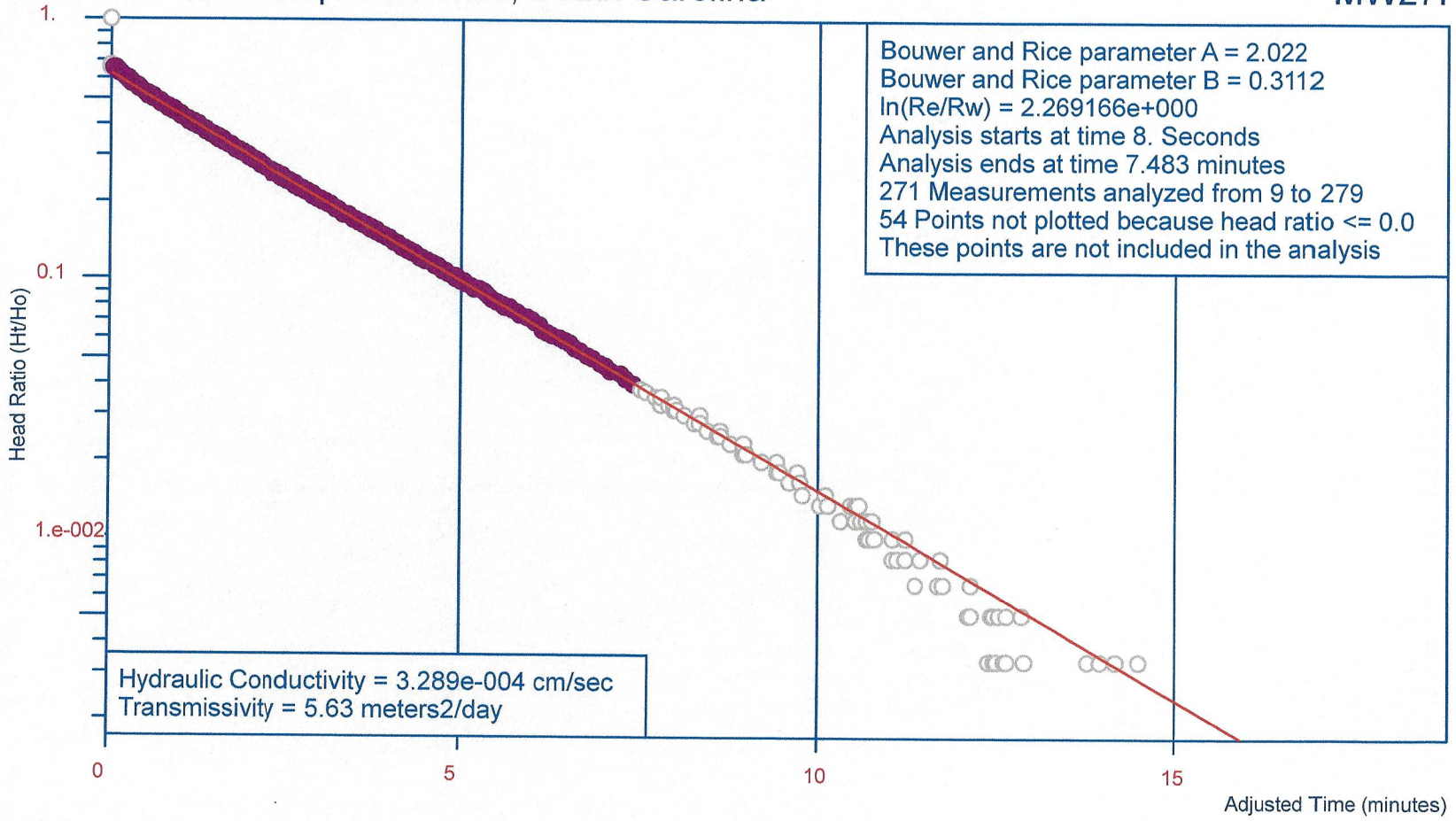
262	1190	1186	20.87	0.	0.

Slug In 03/12/2018

Westside Quick Stop Greenville, South Carolina

Bouwer and Rice Graph

MW27I



Ho is 2.973 feet at 5. Seconds

Project Number: J18-528-A for SCDHEC

Analysis by Starpoint Software

Slug In

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	03/12/2018
Client:	SCDHEC
Project Number:	J18-528-A
Import File:	C:\Users\Tslack\Documents\Sync\Petra-Tech Environmental\Public\528 - Westsi

Well Label:	MW27I
Aquifer Thickness:	65. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	26.2 feet
Water Table to Screen Bottom:	38.8 feet
Anisotropy Ratio:	1.
Time Adjustment:	5. Seconds

Test starts with trial 5
There are 405 time and drawdown measurements
Maximum head is 2.973 feet
Minimum head is -5.e-003 feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-5.	26.2	0.	0.
2	1.	-4.	25.62	0.581	0.1954
3	2.	-3.	23.95	2.254	0.7582
4	3.	-2.	23.76	2.441	0.8211
5	4.	-1.	23.72	2.485	0.8359
6	5.	0.	23.23	2.973	1.
7	6.	1.	24.24	1.964	0.6606
8	7.	2.	24.22	1.979	0.6657
9	8.	3.	24.23	1.969	0.6623
10	9.	4.	24.25	1.949	0.6556
11	10.	5.	24.27	1.929	0.6488
12	11.	6.	24.29	1.915	0.6441
13	12.	7.	24.31	1.895	0.6374
14	13.	8.	24.32	1.875	0.6307
15	14.	9.	24.34	1.86	0.6256
16	15.	10.	24.35	1.846	0.6209
17	16.	11.	24.37	1.826	0.6142
18	17.	12.	24.39	1.811	0.6091
19	18.	13.	24.4	1.796	0.6041
20	19.	14.	24.42	1.782	0.5994
21	20.	15.	24.43	1.767	0.5943
22	21.	16.	24.44	1.757	0.591
23	22.	17.	24.46	1.742	0.5859
24	23.	18.	24.47	1.728	0.5812
25	24.	19.	24.49	1.713	0.5762
26	25.	20.	24.5	1.698	0.5711
27	26.	21.	24.51	1.688	0.5678
28	27.	22.	24.53	1.673	0.5627
29	28.	23.	24.54	1.664	0.5597
30	29.	24.	24.55	1.649	0.5547
31	30.	25.	24.56	1.639	0.5513
32	31.	26.	24.58	1.624	0.5462
33	32.	27.	24.59	1.614	0.5429

34	33.	28.	24.6	1.6	0.5382
35	34.	29.	24.61	1.59	0.5348
36	35.	30.	24.62	1.58	0.5314
37	36.	31.	24.64	1.565	0.5264
38	37.	32.	24.65	1.555	0.523
39	38.	33.	24.66	1.545	0.5197
40	39.	34.	24.67	1.531	0.515
41	40.	35.	24.68	1.521	0.5116
42	41.	36.	24.69	1.511	0.5082
43	42.	37.	24.7	1.501	0.5049
44	43.	38.	24.71	1.491	0.5015
45	44.	39.	24.72	1.482	0.4985
46	45.	40.	24.73	1.472	0.4951
47	46.	41.	24.74	1.457	0.4901
48	47.	42.	24.75	1.452	0.4884
49	48.	43.	24.76	1.437	0.4834
50	49.	44.	24.77	1.427	0.48
51	50.	45.	24.78	1.422	0.4783
52	51.	46.	24.79	1.413	0.4753
53	52.	47.	24.8	1.403	0.4719
54	53.	48.	24.81	1.393	0.4686
55	54.	49.	24.82	1.383	0.4652
56	55.	50.	24.83	1.373	0.4618
57	56.	51.	24.84	1.363	0.4585
58	57.	52.	24.85	1.354	0.4554
59	58.	53.	24.85	1.349	0.4538
60	59.	54.	24.86	1.339	0.4504
61	60.	55.	24.87	1.329	0.447
62	61.	56.	24.88	1.319	0.4437
63	62.	57.	24.89	1.309	0.4403
64	63.	58.	24.9	1.304	0.4386
65	64.	59.	24.91	1.294	0.4353
66	65.	60.	24.91	1.285	0.4322
67	66.	61.	24.92	1.28	0.4305
68	67.	62.	24.93	1.27	0.4272
69	68.	63.	24.94	1.26	0.4238
70	69.	64.	24.95	1.255	0.4221
71	70.	65.	24.95	1.245	0.4188
72	71.	66.	24.96	1.24	0.4171
73	72.	67.	24.97	1.231	0.4141
74	73.	68.	24.98	1.221	0.4107
75	74.	69.	24.98	1.216	0.409
76	75.	70.	24.99	1.206	0.4057
77	76.	71.	25.	1.201	0.404
78	77.	72.	25.01	1.191	0.4006
79	78.	73.	25.01	1.186	0.3989
80	79.	74.	25.02	1.176	0.3956
81	80.	75.	25.03	1.171	0.3939
82	81.	76.	25.04	1.162	0.3909
83	82.	77.	25.04	1.157	0.3892
84	83.	78.	25.05	1.147	0.3858
85	84.	79.	25.06	1.142	0.3841
86	85.	80.	25.07	1.132	0.3808
87	86.	81.	25.07	1.127	0.3791
88	87.	82.	25.08	1.117	0.3757
89	88.	83.	25.09	1.112	0.374
90	89.	84.	25.1	1.103	0.371

91	90.	85.	25.1	1.098	0.3693
92	91.	86.	25.11	1.088	0.366
93	92.	87.	25.12	1.083	0.3643
94	93.	88.	25.12	1.078	0.3626
95	94.	89.	25.13	1.068	0.3592
96	95.	90.	25.14	1.063	0.3576
97	96.	91.	25.14	1.058	0.3559
98	97.	92.	25.15	1.048	0.3525
99	98.	93.	25.16	1.044	0.3512
100	99.	94.	25.16	1.039	0.3495
101	100.	95.	25.17	1.029	0.3461
102	101.	96.	25.18	1.024	0.3444
103	102.	97.	25.18	1.019	0.3428
104	103.	98.	25.19	1.009	0.3394
105	104.	99.	25.2	1.004	0.3377
106	105.	100.	25.2	0.999	0.336
107	106.	101.	25.21	0.994	0.3343
108	107.	102.	25.22	0.984	0.331
109	108.	103.	25.22	0.98	0.3296
110	109.	104.	25.23	0.975	0.328
111	110.	105.	25.23	0.97	0.3263
112	111.	106.	25.24	0.96	0.3229
113	112.	107.	25.25	0.955	0.3212
114	113.	108.	25.25	0.95	0.3195
115	114.	109.	25.25	0.945	0.3179
116	115.	110.	25.26	0.94	0.3162
117	116.	111.	25.27	0.935	0.3145
118	117.	112.	25.27	0.925	0.3111
119	118.	113.	25.28	0.92	0.3095
120	119.	114.	25.28	0.916	0.3081
121	120.	115.	25.29	0.911	0.3064
122	121.	116.	25.29	0.906	0.3047
123	122.	117.	25.3	0.896	0.3014
124	123.	118.	25.31	0.891	0.2997
125	124.	119.	25.31	0.886	0.298
126	125.	120.	25.32	0.881	0.2963
127	126.	121.	25.32	0.876	0.2947
128	127.	122.	25.33	0.871	0.293
129	128.	123.	25.33	0.866	0.2913
130	129.	124.	25.34	0.861	0.2896
131	130.	125.	25.34	0.857	0.2883
132	131.	126.	25.35	0.852	0.2866
133	132.	127.	25.35	0.847	0.2849
134	133.	128.	25.36	0.842	0.2832
135	134.	129.	25.37	0.832	0.2799
136	135.	130.	25.37	0.827	0.2782
137	136.	131.	25.38	0.822	0.2765
138	137.	132.	25.38	0.817	0.2748
139	138.	133.	25.39	0.812	0.2731
140	139.	134.	25.39	0.807	0.2714
141	140.	135.	25.4	0.802	0.2698
142	142.	137.	25.4	0.797	0.2681
143	143.	138.	25.41	0.788	0.2651
144	144.	139.	25.42	0.783	0.2634
145	145.	140.	25.42	0.778	0.2617
146	146.	141.	25.43	0.773	0.26
147	147.	142.	25.43	0.768	0.2583

148	148.	143.	25.44	0.763	0.2566
149	150.	145.	25.44	0.758	0.255
150	151.	146.	25.45	0.753	0.2533
151	152.	147.	25.45	0.748	0.2516
152	153.	148.	25.46	0.743	0.2499
153	154.	149.	25.46	0.738	0.2482
154	155.	150.	25.47	0.734	0.2469
155	156.	151.	25.47	0.729	0.2452
156	157.	152.	25.48	0.724	0.2435
157	158.	153.	25.48	0.719	0.2418
158	159.	154.	25.49	0.714	0.2402
159	160.	155.	25.49	0.709	0.2385
160	162.	157.	25.5	0.704	0.2368
161	163.	158.	25.5	0.699	0.2351
162	164.	159.	25.51	0.694	0.2334
163	165.	160.	25.51	0.689	0.2318
164	166.	161.	25.52	0.684	0.2301
165	167.	162.	25.52	0.679	0.2284
166	169.	164.	25.53	0.674	0.2267
167	170.	165.	25.53	0.669	0.225
168	171.	166.	25.54	0.665	0.2237
169	172.	167.	25.54	0.66	0.222
170	174.	169.	25.55	0.655	0.2203
171	175.	170.	25.55	0.65	0.2186
172	176.	171.	25.56	0.645	0.217
173	177.	172.	25.56	0.64	0.2153
174	179.	174.	25.57	0.635	0.2136
175	180.	175.	25.57	0.63	0.2119
176	181.	176.	25.57	0.625	0.2102
177	182.	177.	25.58	0.62	0.2085
178	184.	179.	25.59	0.615	0.2069
179	185.	180.	25.59	0.61	0.2052
180	186.	181.	25.59	0.606	0.2038
181	188.	183.	25.6	0.601	0.2022
182	189.	184.	25.6	0.596	0.2005
183	190.	185.	25.61	0.591	0.1988
184	192.	187.	25.61	0.586	0.1971
185	193.	188.	25.62	0.581	0.1954
186	195.	190.	25.62	0.576	0.1937
187	196.	191.	25.63	0.571	0.1921
188	197.	192.	25.63	0.566	0.1904
189	199.	194.	25.64	0.561	0.1887
190	200.	195.	25.64	0.556	0.187
191	202.	197.	25.65	0.551	0.1853
192	203.	198.	25.65	0.546	0.1837
193	204.	199.	25.66	0.542	0.1823
194	206.	201.	25.66	0.537	0.1806
195	208.	203.	25.67	0.532	0.1789
196	209.	204.	25.67	0.527	0.1773
197	211.	206.	25.68	0.522	0.1756
198	212.	207.	25.68	0.517	0.1739
199	214.	209.	25.69	0.512	0.1722
200	215.	210.	25.69	0.507	0.1705
201	217.	212.	25.7	0.502	0.1689
202	219.	214.	25.7	0.497	0.1672
203	220.	215.	25.71	0.492	0.1655
204	222.	217.	25.71	0.487	0.1638

205	224.	219.	25.72	0.483	0.1625
206	226.	221.	25.72	0.478	0.1608
207	228.	223.	25.73	0.473	0.1591
208	229.	224.	25.73	0.468	0.1574
209	231.	226.	25.74	0.463	0.1557
210	233.	228.	25.74	0.458	0.1541
211	234.	229.	25.75	0.453	0.1524
212	236.	231.	25.75	0.448	0.1507
213	237.	232.	25.76	0.443	0.149
214	239.	234.	25.76	0.438	0.1473
215	241.	236.	25.77	0.433	0.1456
216	243.	238.	25.77	0.428	0.144
217	245.	240.	25.78	0.423	0.1423
218	247.	242.	25.78	0.419	0.1409
219	249.	244.	25.79	0.414	0.1393
220	251.	246.	25.79	0.409	0.1376
221	253.	248.	25.8	0.404	0.1359
222	254.	249.	25.8	0.399	0.1342
223	257.	252.	25.81	0.394	0.1325
224	259.	254.	25.81	0.389	0.1308
225	261.	256.	25.82	0.384	0.1292
226	263.	258.	25.82	0.379	0.1275
227	265.	260.	25.83	0.374	0.1258
228	267.	262.	25.83	0.369	0.1241
229	269.	264.	25.84	0.364	0.1224
230	272.	267.	25.84	0.359	0.1208
231	275.	270.	25.84	0.355	0.1194
232	277.	272.	25.85	0.35	0.1177
233	280.	275.	25.86	0.345	0.116
234	282.	277.	25.86	0.34	0.1144
235	284.	279.	25.86	0.335	0.1127
236	286.	281.	25.87	0.33	0.111
237	289.	284.	25.88	0.325	0.1093
238	291.	286.	25.88	0.32	0.1076
239	294.	289.	25.89	0.315	0.106
240	297.	292.	25.89	0.31	0.1043
241	299.	294.	25.9	0.305	0.1026
242	300.	295.	25.9	0.3	0.1009
243	303.	298.	25.91	0.295	9.923e-002
244	305.	300.	25.91	0.291	9.788e-002
245	308.	303.	25.91	0.286	9.62e-002
246	312.	307.	25.92	0.281	9.452e-002
247	315.	310.	25.92	0.276	9.284e-002
248	319.	314.	25.93	0.271	9.115e-002
249	323.	318.	25.93	0.266	8.947e-002
250	325.	320.	25.94	0.261	8.779e-002
251	328.	323.	25.94	0.256	8.611e-002
252	330.	325.	25.95	0.251	8.443e-002
253	333.	328.	25.95	0.246	8.274e-002
254	338.	333.	25.96	0.241	8.106e-002
255	341.	336.	25.96	0.236	7.938e-002
256	344.	339.	25.97	0.232	7.804e-002
257	347.	342.	25.97	0.227	7.635e-002
258	350.	345.	25.98	0.222	7.467e-002
259	354.	349.	25.98	0.217	7.299e-002
260	359.	354.	25.99	0.212	7.131e-002
261	363.	358.	25.99	0.207	6.963e-002

262	366.	361.	26.	0.202	6.794e-002
263	370.	365.	26.	0.197	6.626e-002
264	373.	368.	26.01	0.192	6.458e-002
265	377.	372.	26.01	0.187	6.29e-002
266	382.	377.	26.02	0.182	6.122e-002
267	387.	382.	26.02	0.177	5.954e-002
268	391.	386.	26.03	0.172	5.785e-002
269	397.	392.	26.03	0.168	5.651e-002
270	401.	396.	26.04	0.163	5.483e-002
271	405.	400.	26.04	0.158	5.314e-002
272	412.	407.	26.05	0.153	5.146e-002
273	416.	411.	26.05	0.148	4.978e-002
274	421.	416.	26.06	0.143	4.81e-002
275	426.	421.	26.06	0.138	4.642e-002
276	431.	426.	26.07	0.133	4.474e-002
277	438.	433.	26.07	0.128	4.305e-002
278	444.	439.	26.08	0.123	4.137e-002
279	449.	444.	26.08	0.118	3.969e-002
280	456.	451.	26.09	0.113	3.801e-002
281	460.	455.	26.09	0.109	3.666e-002
282	469.	464.	26.1	0.104	3.498e-002
283	473.	468.	26.1	9.9e-002	3.33e-002
284	474.	469.	26.1	0.104	3.498e-002
285	479.	474.	26.1	9.9e-002	3.33e-002
286	483.	478.	26.11	9.4e-002	3.162e-002
287	484.	479.	26.1	9.9e-002	3.33e-002
288	485.	480.	26.11	9.4e-002	3.162e-002
289	493.	488.	26.11	8.9e-002	2.994e-002
290	501.	496.	26.12	8.4e-002	2.825e-002
291	505.	500.	26.11	8.9e-002	2.994e-002
292	506.	501.	26.12	8.4e-002	2.825e-002
293	511.	506.	26.12	7.9e-002	2.657e-002
294	521.	516.	26.13	7.4e-002	2.489e-002
295	522.	517.	26.12	7.9e-002	2.657e-002
296	523.	518.	26.13	7.4e-002	2.489e-002
297	532.	527.	26.13	6.9e-002	2.321e-002
298	541.	536.	26.14	6.4e-002	2.153e-002
299	542.	537.	26.13	6.9e-002	2.321e-002
300	543.	538.	26.14	6.4e-002	2.153e-002
301	556.	551.	26.14	5.9e-002	1.985e-002
302	569.	564.	26.15	5.4e-002	1.816e-002
303	570.	565.	26.14	5.9e-002	1.985e-002
304	571.	566.	26.15	5.4e-002	1.816e-002
305	580.	575.	26.15	4.9e-002	1.648e-002
306	587.	582.	26.15	5.4e-002	1.816e-002
307	589.	584.	26.15	4.9e-002	1.648e-002
308	591.	586.	26.16	4.4e-002	1.48e-002
309	607.	602.	26.16	4.e-002	1.345e-002
310	611.	606.	26.16	4.4e-002	1.48e-002
311	612.	607.	26.16	4.e-002	1.345e-002
312	624.	619.	26.16	3.5e-002	1.177e-002
313	631.	626.	26.16	4.e-002	1.345e-002
314	635.	630.	26.16	3.5e-002	1.177e-002
315	636.	631.	26.16	4.e-002	1.345e-002
316	637.	632.	26.16	3.5e-002	1.177e-002
317	639.	634.	26.16	4.e-002	1.345e-002
318	640.	635.	26.16	3.5e-002	1.177e-002

319	644.	639.	26.17	3.e-002	1.009e-002
320	645.	640.	26.16	3.5e-002	1.177e-002
321	647.	642.	26.17	3.e-002	1.009e-002
322	648.	643.	26.16	3.5e-002	1.177e-002
323	650.	645.	26.17	3.e-002	1.009e-002
324	666.	661.	26.18	2.5e-002	8.409e-003
325	667.	662.	26.17	3.e-002	1.009e-002
326	671.	666.	26.18	2.5e-002	8.409e-003
327	676.	671.	26.17	3.e-002	1.009e-002
328	677.	672.	26.18	2.5e-002	8.409e-003
329	686.	681.	26.18	2.e-002	6.727e-003
330	689.	684.	26.18	2.5e-002	8.409e-003
331	704.	699.	26.18	2.e-002	6.727e-003
332	706.	701.	26.18	2.5e-002	8.409e-003
333	709.	704.	26.18	2.e-002	6.727e-003
334	730.	725.	26.18	1.5e-002	5.045e-003
335	732.	727.	26.18	2.e-002	6.727e-003
336	733.	728.	26.18	1.5e-002	5.045e-003
337	748.	743.	26.19	1.e-002	3.364e-003
338	749.	744.	26.18	1.5e-002	5.045e-003
339	751.	746.	26.19	1.e-002	3.364e-003
340	752.	747.	26.18	1.5e-002	5.045e-003
341	753.	748.	26.19	1.e-002	3.364e-003
342	757.	752.	26.18	1.5e-002	5.045e-003
343	761.	756.	26.19	1.e-002	3.364e-003
344	762.	757.	26.18	1.5e-002	5.045e-003
345	763.	758.	26.19	1.e-002	3.364e-003
346	776.	771.	26.18	1.5e-002	5.045e-003
347	777.	772.	26.19	1.e-002	3.364e-003
348	821.	816.	26.2	5.e-003	1.682e-003
349	831.	826.	26.19	1.e-002	3.364e-003
350	840.	835.	26.2	5.e-003	1.682e-003
351	842.	837.	26.19	1.e-002	3.364e-003
352	843.	838.	26.2	5.e-003	1.682e-003
353	855.	850.	26.19	1.e-002	3.364e-003
354	856.	851.	26.2	5.e-003	1.682e-003
355	874.	869.	26.19	1.e-002	3.364e-003
356	875.	870.	26.2	5.e-003	1.682e-003
357	886.	881.	26.2	0.	0.
358	887.	882.	26.2	5.e-003	1.682e-003
359	928.	923.	26.2	0.	0.
360	948.	943.	26.2	5.e-003	1.682e-003
361	949.	944.	26.2	0.	0.
362	974.	969.	26.2	-5.e-003	-1.682e-003
363	980.	975.	26.2	0.	0.
364	991.	986.	26.2	-5.e-003	-1.682e-003
365	993.	988.	26.2	0.	0.
366	1000	995.	26.2	-5.e-003	-1.682e-003
367	1001	996.	26.2	0.	0.
368	1002	997.	26.2	-5.e-003	-1.682e-003
369	1006	1001	26.2	0.	0.
370	1008	1003	26.2	-5.e-003	-1.682e-003
371	1009	1004	26.2	0.	0.
372	1010	1005	26.2	-5.e-003	-1.682e-003
373	1011	1006	26.2	0.	0.
374	1021	1016	26.2	-5.e-003	-1.682e-003
375	1022	1017	26.2	0.	0.

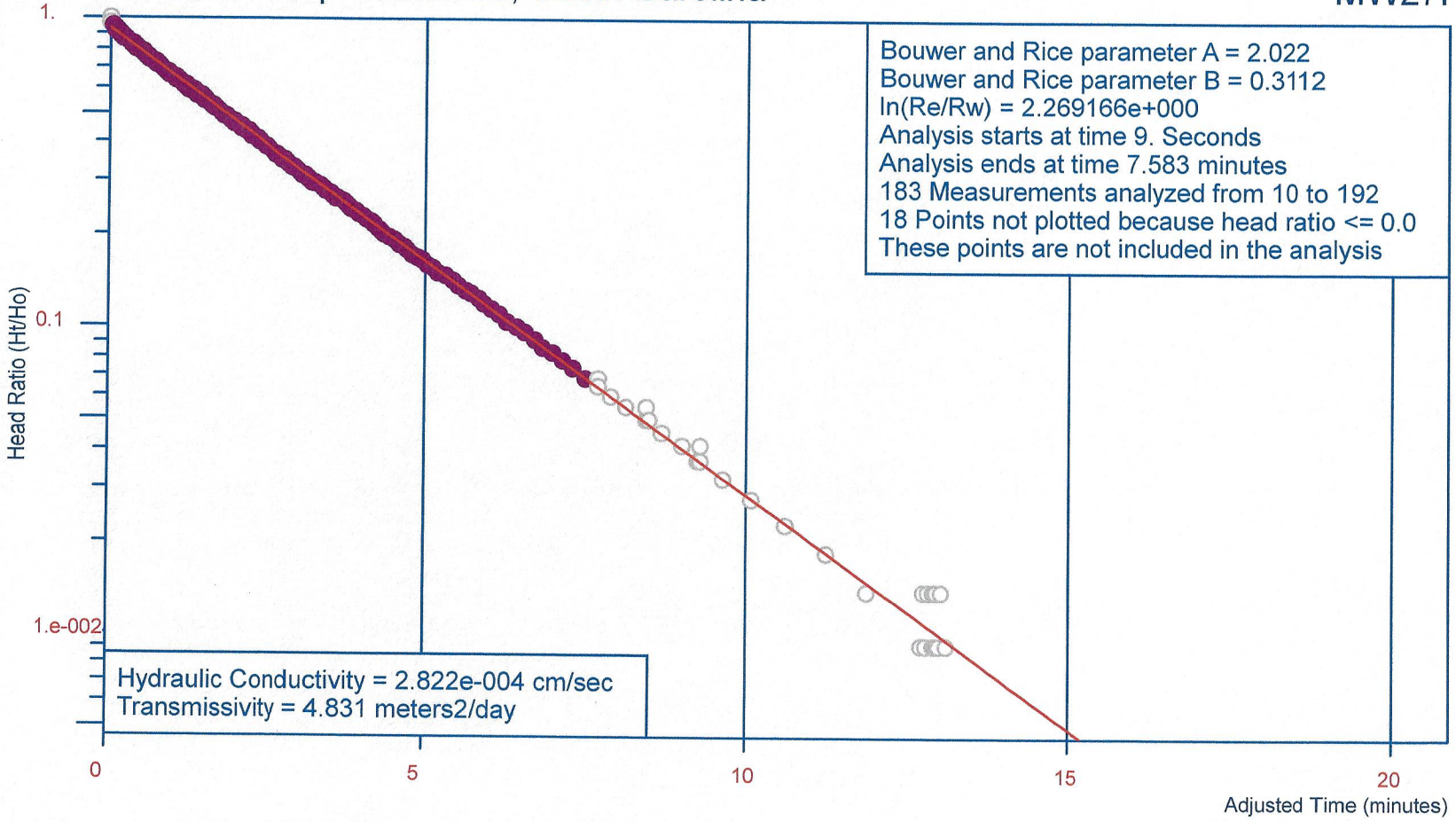
376	1023	1018	26.2	-5.e-003	-1.682e-003
377	1025	1020	26.2	0.	0.
378	1027	1022	26.2	-5.e-003	-1.682e-003
379	1037	1032	26.2	0.	0.
380	1053	1048	26.2	-5.e-003	-1.682e-003
381	1054	1049	26.2	0.	0.
382	1055	1050	26.2	-5.e-003	-1.682e-003
383	1056	1051	26.2	0.	0.
384	1065	1060	26.2	-5.e-003	-1.682e-003
385	1066	1061	26.2	0.	0.
386	1071	1066	26.2	-5.e-003	-1.682e-003
387	1073	1068	26.2	0.	0.
388	1074	1069	26.2	-5.e-003	-1.682e-003
389	1086	1081	26.2	0.	0.
390	1089	1084	26.2	-5.e-003	-1.682e-003
391	1090	1085	26.2	0.	0.
392	1096	1091	26.2	-5.e-003	-1.682e-003
393	1098	1093	26.2	0.	0.
394	1100	1095	26.2	-5.e-003	-1.682e-003
395	1101	1096	26.2	0.	0.
396	1104	1099	26.2	-5.e-003	-1.682e-003
397	1105	1100	26.2	0.	0.
398	1110	1105	26.2	-5.e-003	-1.682e-003
399	1113	1108	26.2	0.	0.
400	1114	1109	26.2	-5.e-003	-1.682e-003
401	1119	1114	26.2	0.	0.
402	1120	1115	26.2	-5.e-003	-1.682e-003
403	1122	1117	26.2	0.	0.
404	1124	1119	26.2	-5.e-003	-1.682e-003
405	1125	1120	26.2	0.	0.

Slug Out 03/12/2018

Westside Quick Stop Greenville, South Carolina

Bouwer and Rice Graph

MW27I



Project Number: J18-528-A for SCDHEC

Analysis by Starpoint Software

Ho is 2.19 feet at 5. Seconds

Slug Out

Site Name:	Westside Quick Stop
Location:	Greenville, South Carolina
Test Date:	03/12/2018
Client:	SCDHEC
Project Number:	J18-528-A
Import File:	C:\Users\Tslack\Documents\Sync\Petra-Tech Environmental\Public\528 - Westsi

Well Label:	MW27I
Aquifer Thickness:	65. feet
Screen Length:	5. feet
Casing Radius:	8.3e-002 feet
Effective Radius:	0.3125 feet
Static Water Level:	26.2 feet
Water Table to Screen Bottom:	38.8 feet
Anisotropy Ratio:	1.
Time Adjustment:	5. Seconds

Test starts with trial 5
There are 239 time and drawdown measurements
Maximum head is 2.19 feet
Minimum head is -1.e-002 feet

Trial	Time (Seconds)	Adjusted Time (Seconds)	Drawdown (feet)	Head (feet)	Head Ratio
1	0.	-5.	26.2	0.	0.
2	1.	-4.	26.21	1.e-002	4.566e-003
3	2.	-3.	26.55	0.35	0.1598
4	3.	-2.	27.43	1.23	0.5616
5	4.	-1.	26.74	0.54	0.2466
6	5.	0.	28.39	2.19	1.
7	6.	1.	28.34	2.14	0.9772
8	7.	2.	28.32	2.12	0.968
9	8.	3.	28.3	2.1	0.9589
10	9.	4.	28.27	2.07	0.9452
11	10.	5.	28.25	2.05	0.9361
12	11.	6.	28.23	2.03	0.9269
13	12.	7.	28.22	2.02	0.9224
14	13.	8.	28.2	2.	0.9132
15	14.	9.	28.18	1.98	0.9041
16	15.	10.	28.17	1.97	0.8995
17	16.	11.	28.15	1.95	0.8904
18	17.	12.	28.14	1.94	0.8858
19	18.	13.	28.12	1.92	0.8767
20	19.	14.	28.11	1.91	0.8721
21	20.	15.	28.09	1.89	0.863
22	21.	16.	28.08	1.88	0.8584
23	22.	17.	28.07	1.87	0.8539
24	23.	18.	28.06	1.86	0.8493
25	24.	19.	28.05	1.85	0.8447
26	25.	20.	28.03	1.83	0.8356
27	26.	21.	28.02	1.82	0.8311
28	27.	22.	28.01	1.81	0.8265
29	28.	23.	28.	1.8	0.8219
30	29.	24.	27.99	1.79	0.8174
31	30.	25.	27.98	1.78	0.8128
32	31.	26.	27.96	1.76	0.8037
33	32.	27.	27.95	1.75	0.7991

34	33.	28.	27.94	1.74	0.7945
35	34.	29.	27.93	1.73	0.79
36	35.	30.	27.92	1.72	0.7854
37	36.	31.	27.91	1.71	0.7808
38	37.	32.	27.9	1.7	0.7763
39	38.	33.	27.89	1.69	0.7717
40	39.	34.	27.87	1.67	0.7626
41	40.	35.	27.86	1.66	0.758
42	41.	36.	27.85	1.65	0.7534
43	42.	37.	27.84	1.64	0.7489
44	43.	38.	27.83	1.63	0.7443
45	44.	39.	27.82	1.62	0.7397
46	45.	40.	27.81	1.61	0.7352
47	46.	41.	27.8	1.6	0.7306
48	47.	42.	27.79	1.59	0.726
49	48.	43.	27.78	1.58	0.7215
50	49.	44.	27.77	1.57	0.7169
51	51.	46.	27.76	1.56	0.7123
52	52.	47.	27.75	1.55	0.7078
53	53.	48.	27.74	1.54	0.7032
54	54.	49.	27.73	1.53	0.6986
55	55.	50.	27.72	1.52	0.6941
56	56.	51.	27.71	1.51	0.6895
57	57.	52.	27.7	1.5	0.6849
58	58.	53.	27.69	1.49	0.6804
59	59.	54.	27.68	1.48	0.6758
60	61.	56.	27.67	1.47	0.6712
61	62.	57.	27.66	1.46	0.6667
62	63.	58.	27.65	1.45	0.6621
63	64.	59.	27.64	1.44	0.6575
64	65.	60.	27.63	1.43	0.653
65	66.	61.	27.62	1.42	0.6484
66	68.	63.	27.61	1.41	0.6438
67	69.	64.	27.6	1.4	0.6393
68	70.	65.	27.59	1.39	0.6347
69	71.	66.	27.58	1.38	0.6301
70	72.	67.	27.57	1.37	0.6256
71	74.	69.	27.56	1.36	0.621
72	75.	70.	27.55	1.35	0.6164
73	76.	71.	27.54	1.34	0.6119
74	77.	72.	27.53	1.33	0.6073
75	78.	73.	27.52	1.32	0.6027
76	80.	75.	27.51	1.31	0.5982
77	81.	76.	27.5	1.3	0.5936
78	82.	77.	27.49	1.29	0.589
79	84.	79.	27.48	1.28	0.5845
80	85.	80.	27.47	1.27	0.5799
81	87.	82.	27.46	1.26	0.5753
82	88.	83.	27.45	1.25	0.5708
83	89.	84.	27.44	1.24	0.5662
84	91.	86.	27.43	1.23	0.5616
85	92.	87.	27.42	1.22	0.5571
86	94.	89.	27.41	1.21	0.5525
87	95.	90.	27.4	1.2	0.5479
88	96.	91.	27.39	1.19	0.5434
89	98.	93.	27.38	1.18	0.5388
90	99.	94.	27.37	1.17	0.5342

91	101.	96.	27.36	1.16	0.5297
92	102.	97.	27.35	1.15	0.5251
93	103.	98.	27.34	1.14	0.5205
94	105.	100.	27.33	1.13	0.516
95	107.	102.	27.32	1.12	0.5114
96	108.	103.	27.31	1.11	0.5068
97	109.	104.	27.3	1.1	0.5023
98	110.	105.	27.29	1.09	0.4977
99	112.	107.	27.28	1.08	0.4932
100	114.	109.	27.27	1.07	0.4886
101	115.	110.	27.26	1.06	0.484
102	117.	112.	27.25	1.05	0.4795
103	119.	114.	27.24	1.04	0.4749
104	121.	116.	27.23	1.03	0.4703
105	122.	117.	27.22	1.02	0.4658
106	124.	119.	27.21	1.01	0.4612
107	126.	121.	27.2	1.	0.4566
108	127.	122.	27.19	0.99	0.4521
109	129.	124.	27.18	0.98	0.4475
110	131.	126.	27.17	0.97	0.4429
111	132.	127.	27.16	0.96	0.4384
112	135.	130.	27.15	0.95	0.4338
113	137.	132.	27.14	0.94	0.4292
114	139.	134.	27.13	0.93	0.4247
115	140.	135.	27.12	0.92	0.4201
116	142.	137.	27.11	0.91	0.4155
117	144.	139.	27.1	0.9	0.411
118	146.	141.	27.09	0.89	0.4064
119	147.	142.	27.08	0.88	0.4018
120	150.	145.	27.07	0.87	0.3973
121	152.	147.	27.06	0.86	0.3927
122	154.	149.	27.05	0.85	0.3881
123	156.	151.	27.04	0.84	0.3836
124	158.	153.	27.03	0.83	0.379
125	160.	155.	27.02	0.82	0.3744
126	162.	157.	27.01	0.81	0.3699
127	164.	159.	27.	0.8	0.3653
128	166.	161.	26.99	0.79	0.3607
129	169.	164.	26.98	0.78	0.3562
130	171.	166.	26.97	0.77	0.3516
131	173.	168.	26.96	0.76	0.347
132	175.	170.	26.95	0.75	0.3425
133	178.	173.	26.94	0.74	0.3379
134	180.	175.	26.93	0.73	0.3333
135	182.	177.	26.92	0.72	0.3288
136	185.	180.	26.91	0.71	0.3242
137	187.	182.	26.9	0.7	0.3196
138	189.	184.	26.89	0.69	0.3151
139	192.	187.	26.88	0.68	0.3105
140	194.	189.	26.87	0.67	0.3059
141	197.	192.	26.86	0.66	0.3014
142	200.	195.	26.85	0.65	0.2968
143	202.	197.	26.84	0.64	0.2922
144	207.	202.	26.83	0.63	0.2877
145	209.	204.	26.82	0.62	0.2831
146	212.	207.	26.81	0.61	0.2785
147	215.	210.	26.8	0.6	0.274

148	218.	213.	26.79	0.59	0.2694
149	221.	216.	26.78	0.58	0.2648
150	224.	219.	26.77	0.57	0.2603
151	227.	222.	26.76	0.56	0.2557
152	230.	225.	26.75	0.55	0.2511
153	233.	228.	26.74	0.54	0.2466
154	236.	231.	26.73	0.53	0.242
155	239.	234.	26.72	0.52	0.2374
156	242.	237.	26.71	0.51	0.2329
157	246.	241.	26.7	0.5	0.2283
158	250.	245.	26.69	0.49	0.2237
159	253.	248.	26.68	0.48	0.2192
160	256.	251.	26.67	0.47	0.2146
161	260.	255.	26.66	0.46	0.21
162	263.	258.	26.65	0.45	0.2055
163	267.	262.	26.64	0.44	0.2009
164	271.	266.	26.63	0.43	0.1963
165	275.	270.	26.62	0.42	0.1918
166	280.	275.	26.61	0.41	0.1872
167	284.	279.	26.6	0.4	0.1826
168	288.	283.	26.59	0.39	0.1781
169	293.	288.	26.58	0.38	0.1735
170	298.	293.	26.57	0.37	0.1689
171	302.	297.	26.56	0.36	0.1644
172	307.	302.	26.55	0.35	0.1598
173	312.	307.	26.54	0.34	0.1553
174	317.	312.	26.53	0.33	0.1507
175	324.	319.	26.52	0.32	0.1461
176	330.	325.	26.51	0.31	0.1416
177	336.	331.	26.5	0.3	0.137
178	342.	337.	26.49	0.29	0.1324
179	347.	342.	26.48	0.28	0.1279
180	354.	349.	26.47	0.27	0.1233
181	360.	355.	26.46	0.26	0.1187
182	366.	361.	26.45	0.25	0.1142
183	374.	369.	26.44	0.24	0.1096
184	381.	376.	26.43	0.23	0.105
185	389.	384.	26.42	0.22	0.1005
186	397.	392.	26.41	0.21	9.589e-002
187	406.	401.	26.4	0.2	9.132e-002
188	413.	408.	26.39	0.19	8.676e-002
189	423.	418.	26.38	0.18	8.219e-002
190	432.	427.	26.37	0.17	7.763e-002
191	443.	438.	26.36	0.16	7.306e-002
192	455.	450.	26.35	0.15	6.849e-002
193	465.	460.	26.34	0.14	6.393e-002
194	466.	461.	26.35	0.15	6.849e-002
195	467.	462.	26.34	0.14	6.393e-002
196	479.	474.	26.33	0.13	5.936e-002
197	492.	487.	26.32	0.12	5.479e-002
198	511.	506.	26.31	0.11	5.023e-002
199	512.	507.	26.32	0.12	5.479e-002
200	513.	508.	26.31	0.11	5.023e-002
201	526.	521.	26.3	1.e-001	4.566e-002
202	544.	539.	26.29	9.e-002	4.11e-002
203	560.	555.	26.28	8.e-002	3.653e-002
204	561.	556.	26.29	9.e-002	4.11e-002

205	562.	557.	26.28	8.e-002	3.653e-002
206	584.	579.	26.27	7.e-002	3.196e-002
207	609.	604.	26.26	6.e-002	2.74e-002
208	639.	634.	26.25	5.e-002	2.283e-002
209	678.	673.	26.24	4.e-002	1.826e-002
210	716.	711.	26.23	3.e-002	1.37e-002
211	767.	762.	26.22	2.e-002	9.132e-003
212	768.	763.	26.23	3.e-002	1.37e-002
213	770.	765.	26.22	2.e-002	9.132e-003
214	774.	769.	26.23	3.e-002	1.37e-002
215	778.	773.	26.22	2.e-002	9.132e-003
216	779.	774.	26.23	3.e-002	1.37e-002
217	780.	775.	26.22	2.e-002	9.132e-003
218	781.	776.	26.23	3.e-002	1.37e-002
219	783.	778.	26.22	2.e-002	9.132e-003
220	786.	781.	26.23	3.e-002	1.37e-002
221	790.	785.	26.22	2.e-002	9.132e-003
222	920.	915.	26.21	1.e-002	4.566e-003
223	1051	1046	26.2	0.	0.
224	1052	1047	26.21	1.e-002	4.566e-003
225	1066	1061	26.2	0.	0.
226	1068	1063	26.21	1.e-002	4.566e-003
227	1069	1064	26.2	0.	0.
228	1070	1065	26.21	1.e-002	4.566e-003
229	1073	1068	26.2	0.	0.
230	1076	1071	26.21	1.e-002	4.566e-003
231	1081	1076	26.2	0.	0.
232	1087	1082	26.21	1.e-002	4.566e-003
233	1088	1083	26.2	0.	0.
234	1100	1095	26.21	1.e-002	4.566e-003
235	1106	1101	26.2	0.	0.
236	1108	1103	26.21	1.e-002	4.566e-003
237	1110	1105	26.2	0.	0.
238	1250	1245	26.19	-1.e-002	-4.566e-003
239	1251	1246	26.2	0.	0.

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX F

June 23, 2018

MR. MIKE WRIGHT
450 DOVE HILL CIRCLE
EASLEY, SC 29640

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

Dear property owner:

Please find enclosed a copy of the Additional Assessment Report for your records. The report describes activities performed on behalf of UST Permit #12430 located at 821 West Parker Road in Greenville, Greenville County, South Carolina. The Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated February 22, 2018. The Assessment Report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

If you have any questions regarding the above mentioned assessment report, please do not hesitate to contact us or the South Carolina Department of Health and Environmental Control (SCDHEC) at:

SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

DAVID ESPINOZA & LESLIE GUERRA
2209 W BLUE RIDGE DRIVE
GREENVILLE, SC 29611

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

Dear property owner:

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SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

petra-tech ENVIRONMENTAL, LLC

June 23, 2018

PAUL MCINTYRE
10 HOYT STREET
GREENVILLE, SC 29611

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

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Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

PATRICIA BOBEN
805 WEST PARKER ROAD
GREENVILLE, SC 29611

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

Dear property owner:

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SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

RTC REAL ESTATE II LLC
149 LAKE FOREST CIRCLE
EASLEY, SC 29642

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

Dear property owner:

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SCDHEC – Mr. Tom Knight, P.G., Project Manager
Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

MICHAEL POORE
149 LAKE FOREST CIRCLE
EASLEY, SC 29642

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

Dear property owner:

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Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

ANKUR PATEL
SHREE GAJVAKRA LLC
205 FAIRWAY DRIVE
LAURENS, SC 29360

Subject: **Additional Assessment Report – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-528-A

Dear property owner:

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Phone: 803.898.0601
Email: knightbt@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX G

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	✓		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?			✓
8	Has the regional geology and hydrogeology been described?			✓
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?			✓
11	Has the site-specific geology and hydrogeology been described?	✓		
12	Has the primary soil type been described?	✓		
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?	✓		
17	Has the method of well development been detailed?	✓		
18	Has justification been provided for the locations of the monitoring wells?	✓		
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	✓		
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?	✓		
27	Does the report include a brief discussion of the fate & transport models used?			✓

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?			✓
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?	✓		
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)			✓
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)			✓
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)			✓
48	Have the well completion logs, DHEC Form 2099, and DHEC Form 1903 been provided? (Appendix E)	✓		
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)	✓		
50	Have the disposal manifests been provided? (Appendix G)	✓		
51	Has a copy of the local zoning regulations been provided? (Appendix H)	✓		
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		

Explanation for missing and incomplete information?

The groundwater samples for monitoring wells 12430-MW19/19I were inadvertently mislabeled as 12430-MW23/23I in the field during sampling and the subsequent laboratory result.

Project Verifier (signature) Mary K Jones

(print name) Mary K Jones

Date 6/23/2018

dhec
Healthy People. Healthy Communities.



DEC 0 3 2018

WESTSIDE QUIK SHOP INC
821 W PARKER RD
GREENVILLE SC 29611

Re: Site Specific Work Plan (SSWP) Directive for Groundwater Sampling
Westside Quick Stop, 821 W Parker Rd., Greenville, SC
UST Permit #12430
Release reported June 7, 2012
AFVR Report received June 4, 2018
Greenville County

To Whom It May Concern :

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

Groundwater samples should be collected from all monitoring wells associated with this release and analyzed for BTEX, Naphth, MtBE, Oxys, DCA, and EDB.All wells should be purged prior to sample collection.

Your contractor must complete the SSWP and Cost Proposal and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

On all correspondence regarding this site, please reference UST Permit #12430. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Environmental Laboratories, Inc., P.O. Box 1729, Travelers Rest, SC 29690
Technical Files

dhec
Healthy People. Healthy Communities.

SHREE GAJVAKRA LLC
205 FAIRWAY DR
LAURENS SC 29360

DEC 0 3 2018

UST DOCKETING

Re: Site Specific Work Plan (SSWP) Directive for Groundwater Sampling
Westside Quick Stop, 821 W Parker Rd.., Greenville, SC
UST Permit #12430
Release reported October 23, 2012
AFVR Report received June 4, 2018
Greenville County

To Whom It May Concern :

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels (RBSLs).

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP) and in compliance with all applicable regulations. A copy of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/.

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Sincerely,

Adam Looper

Adam Looper, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

Cc: Environmental Laboratories, Inc., P.O. Box 1729, Travelers Rest, SC 29690
Technical Files

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

December 9, 2018





SCDHEC - UST Management Division
2600 Bull Street
Columbia, SC 29201-1708

Attention: Mr. Adam Looper

Subject: **Site Specific Work Plan – Comprehensive Groundwater Sampling Event**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

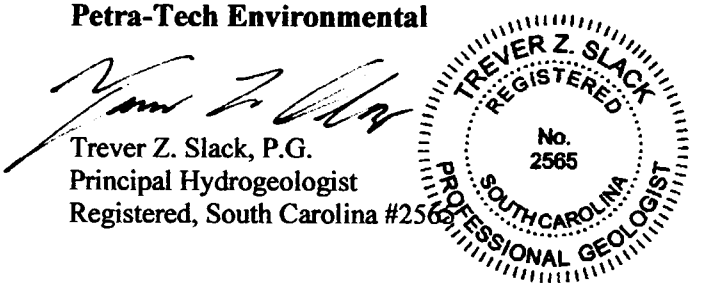
Dear Mr. Looper:

On behalf of Environmental Laboratories, Inc. and Shree Gajvakra LLC, Petra-Tech Environmental, LLC submits herein the completed Site Specific Work Plan for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) Site Specific Work Plan Directive dated December 3, 2018.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565

2435 E. North Street, Suite 1108-202, Greenville, SC 29615 | Phone (864) 631-2490 | Fax (888) 838-9034
www.petratechenv.com

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Adam Looper (SCDHEC Project Manager)
From: Trever Slack, P.G. (Contractor Project Manager)
Contractor: Petra-Tech Environmental, LLC UST Contractor Certification Number: UCC-436

Facility Name: Westside Quick stop UST Permit #: 12430
Facility Address: 821 West Parker Road, Greenville, South Carolina
Responsible Party: Shree Gajvakra LLC Phone: 864.271.9400
RP Address: 205 Fairway Drive, Laurens, South Carolina 29360-7700
Property Owner (if different): _____
Property Owner Address: _____
Current Use of Property: Fueling station / convenience store

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other _____
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH(8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other _____
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☑ BTEXNMDCA (524.2)
- ☑ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB(504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	1 Water Supply Wells	_____ Air	4 Field Blank
42 Monitoring Wells	_____ Surface Water	3 Duplicate	4 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

_____

_____

UST Permit #: 12430 Facility Name: Westside Quick Stop

Implementation Schedule (Number of calendar days from approval)

Field Work Start-Up: 15 Field Work Completion: 45

Report Submittal: 60 # of Copies Provided to Property Owners: 7

Aquifer Characterization

Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal

Soil: _____ Tons Purge Water: 150 Gallons

Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

Additional Details For This Scope of Work

For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)

Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.

Name of Laboratory: _____

SCDHEC Certification Number: _____

Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.

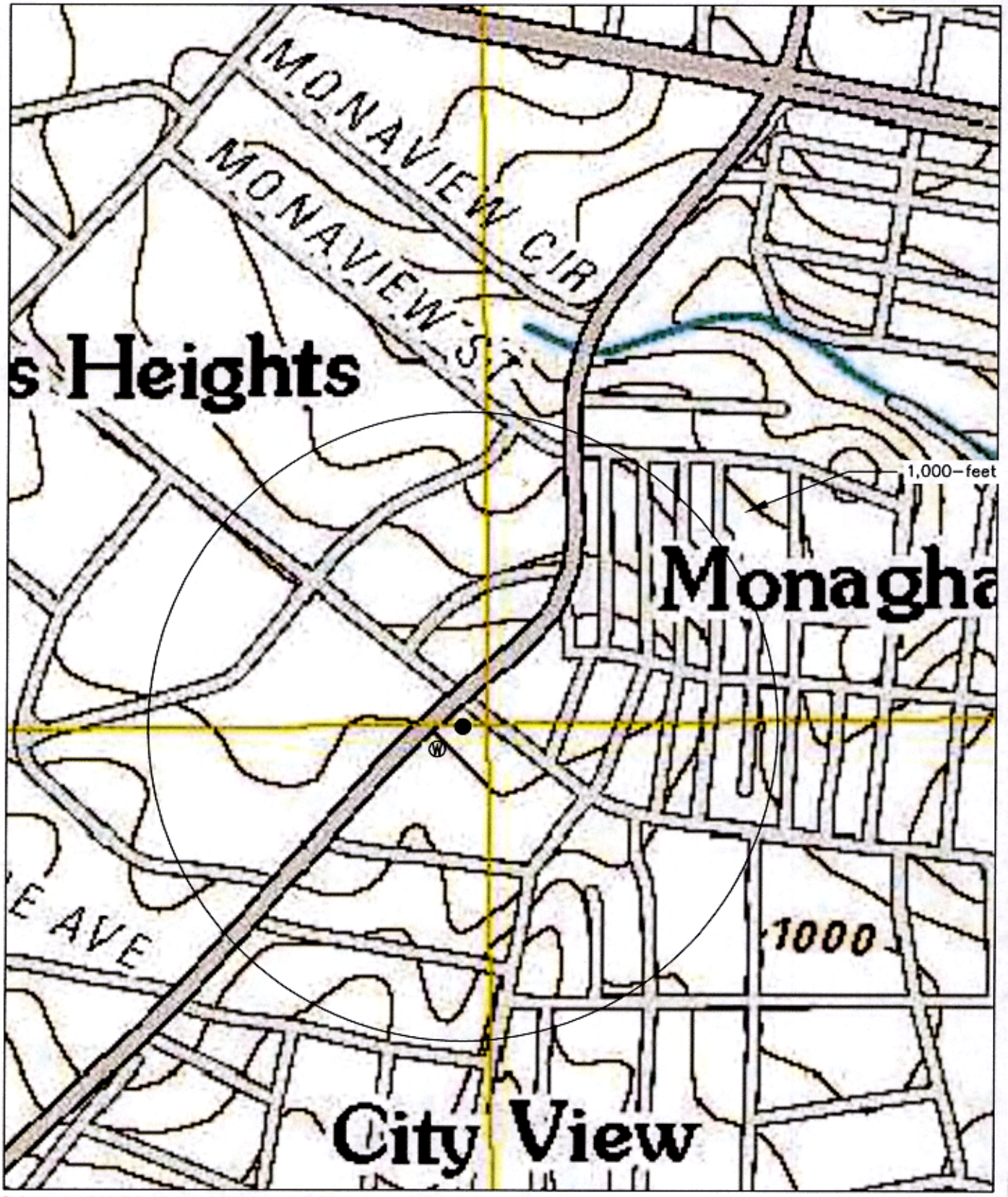
Name of Well Driller: _____

SCLLR Certification Number: _____

No Other variations from ACQAP. Please describe below.

Attachments

1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



Reference: USGS 7.5-Minute series Greenville Quadrangle – 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

● SITE

Ⓦ Private Water supply Well

N

Title	Site Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County
Date	12/09/2018
Job No.	J18-687-B

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 1

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

TRANSMISSION LINE

ASPHALT

GRASS

GRAVEL

VACUUM

ISLAND

CHAINLINK FENCE

MW-1 (979.24)
MW-2 979.67
MW-3 DRY
MW-4 980.08
MW-4i (979.77)
MW-5 979.47
MW-6 980.02
MW-7 980.36
MW-8 979.81
MW-9 980.59
MW-10 981.24
MW-11 980.68
MW-12 979.96
MW-12i (979.56)
MW-14 979.56
MW-14i (979.47)
MW-15 979.36
MW-15i (979.33)
MW-16 979.25
MW-16i (979.31)
MW-17 979.09
MW-17i (979.19)
MW-18 979.17
MW-19 979.41
MW-19i (979.36)
MW-20 979.79
MW-21 979.54
MW-22 979.82
MW-22i (979.57)
MW-23 979.53
MW-23i (979.48)
MW-24 (979.22)
MW-25 979.45
MW-26 979.83
MW-26i (979.77)
MW-27 979.70
MW-28 979.94
MW-X 979.51
MW-XR 979.48
RW-1
RW-2 (979.53)
RW-3 (979.23)

980.00
979.75
979.50
979.25

Approximate location of suspected out-of-service private water supply well

Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.25-feet

541.28 Groundwater Elevation (October 3, 2017)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

N

Title	Groundwater Potentiometric Map – Shallow Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	12/09/2018
Job No.	J18-687-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2

TABLE 1
Monitoring Well and Groundwater Surface Elevation Data
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW01	1005.56	1005.32	08/13/2013	-	17.97	-	987.35	30.00	15.00 - 30.00	990.56 - 975.56
			03/31/2015	-	22.63	-	982.69			
			04/10/2017	25.21	29.37	4.16	978.86			
			04/24/2017	24.83	29.29	4.46	979.15			
			10/03/2017	24.28	29.31	5.03	979.53			
12430-MW02	1006.50	1006.20	08/13/2013	-	18.85	-	987.35	30.00	15.00 - 30.00	991.50 - 976.50
			03/31/2015	-	21.69	-	984.51			
			04/10/2017	-	27.44	-	978.76			
			10/03/2017	-	26.53	-	979.67			
12430-MW03	1008.72	1008.49	08/13/2013	-	21.00	-	987.49	30.00	15.00 - 30.00	993.72 - 978.72
			03/31/2015	-	23.81	-	984.68			
			04/10/2017	DRY			NA			
			10/03/2017	DRY			NA			
12430-MW04	1008.45	1008.27	03/31/2015	-	23.47	-	984.80	30.49	20.29 - 30.29	988.16 - 978.16
			04/10/2017	DRY			NA			
			10/03/2017	-	28.19	-	980.08			
12430-MW04I	1008.35	1008.12	04/10/2017	-	29.36	-	978.76	53.17	47.97 - 52.97	960.38 - 955.38
			10/03/2017	-	28.35	-	979.77			
12430-MW05	998.24	997.73	03/31/2015	-	13.01	-	984.72	20.80	10.60 - 20.60	987.64 - 977.64
			04/10/2017	-	18.61	-	979.12			
			10/03/2017	-	18.26	-	979.47			
12430-MW06	998.58	998.27	03/31/2015	-	13.32	-	984.95	21.47	11.27 - 21.27	987.31 - 977.31
			04/10/2017	-	19.01	-	979.26			
			10/03/2017	-	18.25	-	980.02			
12430-MW07	1006.27	1005.88	03/31/2015	-	19.61	-	986.27	31.04	20.84 - 30.84	985.43 - 975.43
			04/10/2017	DRY			NA			
			10/03/2017	-	25.52	-	980.36			
12430-MW08	1007.86	1007.43	03/31/2015	-	22.71	-	984.72	31.10	20.90 - 30.90	986.96 - 976.96
			04/10/2017	-	28.58	-	978.85			
			10/03/2017	-	27.62	-	979.81			
12430-MW09	1009.07	1008.55	03/31/2015	-	23.20	-	985.35	30.04	19.84 - 29.84	989.23 - 979.23
			04/10/2017	DRY			NA			
			10/03/2017	-	27.96	-	980.59			
12430-MW10	1008.54	1008.22	03/31/2015	-	22.94	-	985.28	30.47	20.27 - 30.27	988.27 - 978.27
			04/10/2017	-	29.30	-	978.92			
			10/03/2017	-	26.98	-	981.24			
12430-MW11	1008.26	1007.84	03/31/2015	-	22.82	-	985.02	30.83	20.63 - 30.63	987.63 - 977.63
			04/10/2017	-	29.37	-	978.47			
			10/03/2017	-	27.16	-	980.68			
12430-MW12	1005.64	1005.35	04/10/2017	-	26.59	-	978.76	35.69	25.49 - 35.49	980.15 - 970.15
			10/03/2017	-	25.39	-	979.96			
12430-MW12I	1005.65	1005.37	04/10/2017	-	26.65	-	978.72	45.63	40.43 - 45.43	965.22 - 960.22
			10/03/2017	-	25.81	-	979.56			
12430-MW14	1000.38	1000.02	04/10/2017	-	21.25	-	978.77	25.57	15.37 - 25.37	985.01 - 975.01
			10/03/2017	-	20.46	-	979.56			
12430-MW14I	1000.31	1000.11	04/10/2017	-	21.41	-	978.70	67.92	62.72 - 67.72	937.59 - 932.59
			10/03/2017	-	20.64	-	979.47			
12430-MW15	1000.15	999.88	04/10/2017	-	21.18	-	978.70	26.83	16.63 - 26.63	983.52 - 973.52
			10/03/2017	-	20.52	-	979.36			
12430-MW15I	1000.06	999.88	04/10/2017	-	21.24	-	978.64	62.13	56.93 - 61.93	943.13 - 938.13
			10/03/2017	-	20.55	-	979.33			
12430-MW16	1001.01	1000.63	04/10/2017	-	22.10	-	978.53	27.71	17.51 - 27.51	983.50 - 973.50
			10/03/2017	-	21.38	-	979.25			
12430-MW16I	1001.10	1000.72	04/10/2017	-	22.11	-	978.61	65.49	60.29 - 65.29	940.81 - 935.81
			10/03/2017	-	21.41	-	979.31			
12430-MW17	1000.25	999.85	04/10/2017	-	21.36	-	978.49	28.82	18.62 - 28.62	981.63 - 971.63
			10/03/2017	-	20.76	-	979.09			
12430-MW17I	1000.44	1000.01	04/10/2017	-	21.46	-	978.55	60.41	55.21 - 60.21	945.23 - 940.23
			10/03/2017	-	20.82	-	979.19			
12430-MW18	1003.14	1002.78	04/10/2017	-	24.38	-	978.40	29.30	19.10 - 29.10	984.04 - 974.04
			10/03/2017	-	23.61	-	979.17			
12430-MW19	1008.61	1008.24	04/10/2017	-	29.68	-	978.56	39.69	29.49 - 39.49	979.12 - 969.12
			10/03/2017	-	28.83	-	979.41			
12430-MW19I	1008.55	1008.18	04/10/2017	-	29.57	-	978.61	70.68	65.48 - 70.48	943.07 - 938.07
			10/03/2017	-	28.82	-	979.36			
12430-MW20	1008.40	1008.01	04/10/2017	-	29.41	-	978.60	40.87	30.67 - 40.67	977.73 - 967.73
			10/03/2017	-	28.22	-	979.79			
12430-MW21	1007.16	1006.73	04/10/2017	-	28.06	-	978.67	35.14	24.94 - 34.94	982.22 - 972.22
			10/03/2017	-	27.19	-	979.54			
12430-MW22	1007.45	1007.12	04/10/2017	-	28.31	-	978.81	35.06	24.86 - 34.86	982.59 - 972.59
			10/03/2017	-	27.30	-	979.82			
12430-MW22I	1007.28	1007.03	04/10/2017	-	28.29	-	978.74	49.72	44.52 - 49.52	962.76 - 957.76
			10/03/2017	-	27.46	-	979.57			
12430-MW23	1008.66	1008.24	04/10/2017	-	29.61	-	978.63	39.87	29.67 - 39.67	978.99 - 968.99
			10/03/2017	-	28.71	-	979.53			
12430-MW23I	1008.66	1008.21	10/03/2017	-	28.73	-	979.48	61.69	56.49 - 61.49	952.17 - 947.17
12430-MW24	1006.83	1006.39	04/10/2017	26.56	31.04	4.48	978.49	35.25	25.05 - 35.05	981.78 - 971.78
			04/24/2017	25.87	30.62	4.75	979.10			
			10/03/2017	25.29	31.56	6.27	979.22			
12430-MW25	1007.57	1007.27	04/10/2017	-	28.72	-	978.55	38.20	28.00 - 38.00	979.57 - 969.57
			10/03/2017	-	27.82	-	979.45			
12430-MW26	1007.68	1007.33	04/10/2017	-	28.52	-	978.81	36.45	26.25 - 36.25	981.43 - 971.43
			10/03/2017	-	27.50	-	979.83			

12430-MW26I	1007.67	1007.27	04/10/2017	-	28.53	-	978.74	55.11	49.91 - 54.91	957.76 - 952.76
			10/03/2017	-	27.50	-	979.77			
12430-MW27	1007.24	1006.96	10/03/2017	-	27.26	-	979.70	34.70	24.50 - 34.50	982.74 - 972.74
12430-MW28	1007.08	1006.76	10/03/2017	-	26.82	-	979.94	35.91	25.71 - 35.71	981.37 - 971.37
12430-RW01	1007.18	1006.69	04/10/2017	27.34	29.98	2.64	978.56	40.69	20.49 - 40.49	986.69 - 966.69
			04/17/2017	26.99	30.19	3.20	978.74			
			10/03/2017	25.62	31.71	6.09	979.24			
12430-RW02	1006.53	1006.23	04/10/2017	26.58	30.63	4.05	978.44	38.08	17.88 - 37.88	988.65 - 968.65
			04/24/2017	25.58	28.63	3.05	979.74			
			10/03/2017	25.61	30.26	4.65	979.23			
12430-RW03	1006.17	1005.90	04/10/2017	-	27.19	-	978.71	40.00	19.80 - 39.80	986.37 - 966.37
			10/03/2017	-	26.29	-	979.61			
12430-MWX	1007.47	1007.20	04/10/2017	28.53	NA	+1.47	NA	30.27	20.07 - 30.07	987.40 - 977.40
			04/17/2017	28.30	NA	+1.70	NA			
			10/03/2017	-	27.69	Sheen	979.51			
12430-MWXR	1007.67	1007.31	04/10/2017	-	28.66	-	978.65	38.25	28.05 - 38.05	979.62 - 969.62
			04/17/2017	28.43	28.45	0.02	978.87			
			10/03/2017	-	27.83	Sheen	979.48			

NOTES:
Measurements are in feet
BGS - below ground surface
Elevations are NAVD 88

TABLE 2
Summary of Groundwater Analytical Results
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15
12430-MW01	08/13/2013	-	***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.90***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***27000***	<10
			27000	***54000***	***2700***	***13000***	***5200***	<500	***0.93***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***28000***	<10
	03/30/2015	-	***3000***	***6300***	***440***	***2500***	***800***	<20	<0.049	<7.4	<10	<75	<13	***68***	<960	<33	***180 J***	***1800***	<4.7
			3000	***6200***	***420***	***2500***	***820***	<20	<0.0049	<7.4	<10	<75	<13	***67***	<960	<33	***190 J***	***1900***	<4.7
	04/10/2017	4.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW02	08/13/2013	-	***1000***	***1000***	***200***	***570***	***23***	<20	<0.019	<20	<20	<400	<200	<100	<2000	<100	<400	***910***	<10
	03/30/2015	-	***23000***	***51000***	***3200***	***15000***	***520***	***620***	***0.36***	<74	<100	<750	<130	***1600***	<9600	<330	<1100	***20000***	<4.7
	04/11/2017	-	851	659	139	562	<8.5	<10.0	<0.021	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	**687**	22.0
12430-MW03	08/13/2013	-	<1	<1	<1	<1	<1	<1	<0.020	<1	<1	<20	<10	<5	<100	<5	<20	<20	<10
	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***9 J***
	04/10/2017	DRY																	
12430-MW04	03/30/2015	-	***41***	***31***	***6.7***	***63***	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	***4.4***	<19	<0.66	<2.3	***5.1 J***	***6.4 J***
	04/10/2017	DRY																	
12430-MW04I	04/11/2017	-	***3.8 J***	***1.9 J***	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW05	03/31/2015	-	***0.22 J***	***0.70 J***	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW06	03/31/2015	-	***0.18 J***	***0.73 J***	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***14***
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	**46.4**
12430-MW07	03/31/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	4.8 J
	04/10/2017	DRY																	
12430-MW08	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***26***	***14 J***	<4.7
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW09	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7
	04/10/2017	DRY																	
12430-MW10	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.0049	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***3.6 J***	<1.5	<4.7
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***286***
12430-MW11	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***6.7 J***
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	***2.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***77.5 J***	***68.4***
12430-MW12	04/15/2017	-	***2050***	***3930***	***422***	***1580***	<34.0	<40.0	<0.019	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3010***	<2.5
12430-MW12I	04/15/2017	-	***2700***	***6210***	***576***	***2740***	<68.0	<80.0	<0.020	<72.0	<144	<1280	<136	<68.0	<5240	<292	<2310	***3680 J***	<2.5
12430-MW14	04/11/2017	-	***746***	***748***	***80.5***	***476***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	***795 J***	<36.5	<288	***2050***	***3.1 J***
			764	***749***	***79.6***	***462***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	**2220**	***10.6***
12430-MW14I	04/11/2017	-	***33.4***	***16.0***	***2.6 J***	***15.0***	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***111***	<2.5
12430-MW15	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW15I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW16	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	2.8 J
12430-MW16I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW17	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW17I	04/10/2017		<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5

12430-MW18	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW19	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW19I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW20	04/10/2017	-	***341***	***286***	***26.1***	***119***	<4.2	<5.0	<0.020	<4.5	<9.0	<80.2	<8.5	***39.3***	<328	<18.2	<144	***1010***	<2.5
12430-MW21	04/15/2017	-	***5520***	***1620***	***675***	***5700***	***1240***	***285***	***0.42***	<72.0	<144	<1280	<136	***585***	<5240	<292	<2310	***4390***	<2.5
12430-MW22	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW22I	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW23	04/10/2017	-	1400	<20.0	<20.0	<33.8	47.4 J	72.4	<0.020	<22.5	<45.0	<401	<42.5	***44.7 J***	<1640	<91.2	<721	***1030 J***	<2.5
12430-MW23I	10/03/2017	-	***115***	***4.9 J***	***3.1 J***	<5.0	***9.3***	***3.3 J***	<0.019	<1.8	<3.6	<32.1	<3.4	***16.3***	<131	<7.3	<57.7	***202***	<2.5
			105	***4.5 J***	***2.9 J***	<5.0	***8.4***	***3.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	***14.8***	<131	<7.3	<57.7	***199***	<2.5
12430-MW24	04/10/2017	4.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW25	04/15/2017	-	***11.6***	***2.0 J***	<1.6	<2.7	***3.7 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
			11.4	***2.5 J***	<1.6	<2.7	***3.5 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW26	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW26I	04/15/2017	-	***2.6 J***	***2.8 J***	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW27	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW28	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
12430-MW0X	04/10/2017	>1.47	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW0XR	04/11/2017	-	***3580***	***9410***	***621***	***3390***	***516***	<200	<0.020	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	***18.2***
12430-RW01	04/10/2017	2.64	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW02	04/10/2017	4.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW03	04/15/2017	-	***7020***	***12200***	***1890***	***9200***	***298 J***	***275 J***	<0.020	<180	<360	<3210	<340	***251 J***	<13100	<730	<5770	<7680	<2.5
			6750	***11700***	***1890***	***9100***	***304 J***	***269 J***	<0.020	<180	<360	<3210	<340	***257 J***	<13100	<730	<5770	<7680	<2.5
Field Blank 1	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5
Trip Blank 1	-	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5

NOTES:
RBSL - Risk Based Screening Level
Bold values indicate concentrations detected above the laboratory method detection limit.
Shaded values indicate concentrations exceeding RBSLs.
NE - Not Established
NT - Not Tested

ASSESSMENT COMPONENT INVOICE
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
August 16, 2016

Healthy People. Healthy Communities

Facility Name: Westside Quick Stop

UST Permit #: 12430 **Cost Agreement #:**

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
1. **Plan Preparation**					
A1. Site-specific Work Plan	1	each	$150.00		$150.00
B1. Tax Map		each	$70.00		$0.00
C1. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00		$0.00
2. A1. **Receptor Survey** *		each	$551.00		$0.00
3. **Survey (500 ft x 500 ft)**					
A1. Comprehensive Survey		each	$1,040.00		$0.00
B. Subsurface Geophysical Survey					
1B. < 10 meters below grade		each	$1,300.00		$0.00
2B. > 10 meters below grade		each	$2,310.00		$0.00
C1. Geophysical UST or Drum Survey		each	$910.00		$0.00
4. **Mob/Demob**					
A1. Equipment		each	$1,020.00		$0.00
B1. Personnel	4	each	$423.00		$1,692.00
C1. Adverse Terrain Vehicle		each	$500.00		$0.00
5. A1. **Soil Borings (hand auger)***		foot	$5.00		$0.00
6. **Soil Borings (requiring equipment, push technology, etc)* or Field Screening (including water sample, soil sample, soil gas sample, etc.)***					
AA. Standard		per foot	$15.00		$0.00
C1. Fractured Rock		per foot	$20.20		$0.00
7. A1. **Soil Leachability Model**		each	$60.00		$0.00
8. **Abandonment (per foot)***					
A1. 2" diameter or less		per foot	$3.10		$0.00
B1. Greater than 2" to 6" diameter		per foot	$4.50		$0.00
C1. Dug/Bored well (up to 6 feet diameter)		per foot	$15.00		$0.00
9. **Well Installation (per foot)***					
A1. Water Table (hand augered)		per foot	$10.60		$0.00
B1. Water Table (drill rig)		per foot	$38.00		$0.00
CC. Telescoping		per foot	$50.00		$0.00
DD. Rock Drilling		per foot	$58.00		$0.00
E1. 2" Rock Coring		per foot	$30.90		$0.00
G1. Rock Multi-sampling ports/screens		per foot	$33.40		$0.00
HH. Recovery Well (4" diameter)		per foot	$45.00		$0.00
II. Pushed Pre-packed screen (1.25" dia)		per foot	$15.00		$0.00
J1. Rotosonic (2" diameter)		per foot	$44.00		$0.00
K. Re-develop Existing Well		per foot	$11.00		$0.00

10. Groundwater Sample Collection / Gauge Depth to Water or Product *					
A1. Groundwater Purge	38	per well/receptor	$60.00		$2,280.00
B1. Air or Vapors		per receptor	$12.00		$0.00
C1. Water Supply	1	per well/receptor	$22.00		$22.00
D1. Groundwater (No Purge or Duplicate)	3	per well/receptor	$28.00		$84.00
E1. Gauge Well only	4	per well	$7.00		$28.00
F1. Sample Below Product		per well	$12.00		$0.00
G1. Passive Diffusion Bag		each	$26.00		$0.00
H1. Field Blank	4	each	$24.60		$98.40
11. Laboratory Analyses-Groundwater					
A2. BTEXNM+Oxyg's+1,2 DCA+Eth(826	46	per sample	$122.00		$5,612.00
AA1. Lead, Filtered		per sample	$13.80		$0.00
B2. Rush EPA Method 8260B (All of item A.)		per sample	$153.60		$0.00
C2. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$36.40		$0.00
D1. PAH's		per sample	$60.60		$0.00
E1. Lead		per sample	$16.00		$0.00
F1. EDB by EPA 8011	43	per sample	$45.20		$1,943.60
FF1. EDB by EPA Method 8011 Rush		per sample	$68.20		$0.00
G1. 8 RCRA Metals		per sample	$63.40		$0.00
H1. TPH (9070)		per sample	$41.00		$0.00
II. pH		per sample	$5.20		$0.00
J1. BOD		per sample	$20.00		$0.00
PP. Ethanol		per sample	$14.80		$0.00
11. Analyses-Drinking Water					
L. BTEXNM+1,2 DCA (524.2)	4	per sample	$124.05		$496.20
M. 7-OXYGENATES & ETHANOL (8260B)	4	per sample	$91.75		$367.00
N. EDB (504.1)	3	per sample	$79.50		$238.50
O. RCRA METALS (200.8)		per sample	$100.00		$0.00
11. Analyses-Soil					
Q1. BTEX + Naphth.		per sample	$64.00		$0.00
R1. PAH's		per sample	$64.04		$0.00
S1. 8 RCRA Metals		per sample	$56.40		$0.00
U1. TPH-DRO (3550C/8015C)		per sample	$40.00		$0.00
V1. TPH- GRO (5030B/8015C)		per sample	$35.96		$0.00
W1. Grain size/hydrometer		per sample	$104.00		$0.00
X1. Total Organic Carbon		per sample	$30.60		$0.00
11. Analyses-Air					
Y1. BTEX + Naphthalene		per sample	$216.00		$0.00
11. Analyses-Free Phase Product					
Z1. Hydrocarbon Fuel Identification		per sample	$357.00		$0.00
12. Aquifer Characterization					
A1. Pumping Test*		per hour	$23.00		$0.00
B1. Slug Test*		per test	$191.00		$0.00
C1. Fractured Rock		per test	$100.00		$0.00
13. A1. Free Product Recovery Rate Test*		each	$38.00		$0.00
14. Fate/Transport Modeling					
A1. Mathematical Model		each	$100.00		$0.00
B1. Computer Model		each	$100.00		$0.00
15. Risk Evaluation					
A. Tier I Risk Evaluation		each	$300.00		$0.00
B1. Tier II Risk Evaluation		each	$100.00		$0.00
16. A1. Subsequent Survey*		each	$260.00		$0.00

17. **Disposal (gallons or tons)***					
AA. Wastewater	150	gallon	$0.56		$84.00
BB. Free Product		gallon	$0.50		$0.00
C1. Soil Treatment/Disposal		ton	$60.00		$0.00
D1. Drilling fluids		gallon	$0.42		$0.00
18. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
20. **Tier I Assessment (Use DHEC 3665 form)**		standard			$0.00
21. **IGWA (Use DHEC 3666 form)**		standard			$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00
23. **Aggressive Fluid & Vapor Recovery (AFVR)**					
A1. 8-hour Event*		each	$1,375.00		$0.00
AA. 24-hour Event*		each	$3,825.00		$0.00
A3. 48-hour Event*		each	$6,265.00		$0.00
A4. 96-hour Event*		each	$12,567.50		$0.00
C1. Off-gas Treatment 8 hour		per event	$122.50		$0.00
C2. Off-gas Treatment 24 hour		per event	$241.50		$0.00
C3. Off-gas Treatment 48 hour		per event	$327.00		$0.00
C4. Off-gas Treatment 96 hour		per event	$780.00		$0.00
D. Site Reconnaissance		each	$203.25		$0.00
E1. Additional Hook-ups		each	$25.75		$0.00
F1. Effluent Disposal		gallon	$0.44		$0.00
G. AFVR Mobilization/Demobilization		each	$391.50		$0.00
24. **Granulated Activated Carbon (GAC) filter system installation & service:**					
A1. New GAC System Installation*		each	$1,900.00		$0.00
BB. Refurbished GAC Sys. Install*		each	$900.00		$0.00
C1. Filter replacement/removal*		each	$350.00		$0.00
DD. GAC System removal, cleaning, & refurbishment*		each	$275.00		$0.00
E1. GAC System housing*		each	$250.00		$0.00
F. In-line particulate filter		each	$150.00		$0.00
G1. Additional piping & fittings		foot	$1.50		$0.00
25. **Well Repair**					
A1. Additional Copies of the Report Delive	7	each	$50.00		$350.00
B1. Repair 2x2 MW pad*		each	$50.00		$0.00
C1. Repair 4x4 MW pad*		each	$88.00		$0.00
D1. Repair well vault*		each	$118.00		$0.00
F1. Replace well cover bolts		each	$2.60		$0.00
G. Replace locking well cap & lock		each	$15.00		$0.00
H1. Replace/Repair stick-up*		each	$134.00		$0.00
I1. Convert Flush-mount to Stick-up*		each	$150.00		$0.00
J1. Convert Stick-up to Flush-mount*		each	$130.00		$0.00
K1. Replace missing/illegible well ID plate		each	$12.00		$0.00
Report Prep & Project Coordination	12%	percent	$13,445.70		$1,613.48
TOTAL					$15,059.18

*The appropriate mobilization cost can be added to complete these tasks, as necessary. DHEC

dhec
Healthy People. Healthy Communities.



JAN 2 9 2019

WESTSIDE QUIK SHOP INC
821 W PARKER RD
GREENVILLE SC 29611

Re: Site-Specific Work Plan (SSWP) Approval and Groundwater Sampling Notice to Proceed (NTP)
Westside Quick Stop, 821 W Parker Rd, Greenville, SC
UST Permit #12430; CA #58882
Release Reported June 7, 2012
SSWP and cost proposal received December 14, 2018
Greenville County

To Whom it May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced SSWP submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

Please note that costs for this sampling event will be split between release #1 and release #2.

The Contractor must provide the UST Project Manager with a Project Status Report on a weekly basis via e-mail or notify the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes or conflicts with the date(s) of site activities, the UST Project Manager must be contacted within 24 hours of those changes.

The Monitoring report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the Division within sixty (60) days of the date of this correspondence. The report submitted at the completion of these activities should include the required information outlined in the UST QAPP.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

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

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by an DHEC-certified site rehabilitation contractor as required by R.61-98.

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

On all correspondence regarding this site, please reference UST Permit #12430. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Environmental Laboratories, Inc., P.O. Box 1729, Travelers Rest, SC 29690 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement 58882

Facility: 12430 WESTSIDE QUICK STOP
LOOPERAM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	0.5000	$150.000	75.00
04 MOB/DEMOB					
		B1 PERSONNEL	2.0000	$423.000	846.00
10 SAMPLE COLLECTION					
		A1 GROUNDWATER (PURGE)	19.0000	$60.000	1,140.00
		C1 WATER SUPPLY	0.5000	$22.000	11.00
		D1 GROUNDWATER NO PURGE/DUPLICATE	1.5000	$28.000	42.00
		E1 GAUGE WELL ONLY	2.0000	$7.000	14.00
		H1 FIELD BLANK	2.0000	$24.600	49.20
11 ANALYSES					
	GW GROUNDWATER	A2 BTEXNM+OXYGS+1,2-DCA+ETH-8260B	23.0000	$122.000	2,806.00
		F1 EDB BY 8011	21.0000	$45.200	949.20
	WATER DRINKING WATER	L BTEXNM+1,2 DCA (524.2)	2.0000	$124.050	248.10
		M 7-OXYGENATES & ETHANOL (8260B)	2.0000	$91.750	183.50
		N EDB (504.1)	1.5000	$79.500	119.25
17 DISPOSAL					
		AA WASTEWATER	75.0000	$0.560	42.00
19 RPT/PROJECT MNGT & COORDINATIO					
		PRT REPORT PREPARATION	0.1200	$6,700.250	804.03
25 WELL REPAIR					
		A1 ADDITIONAL COPIES OF REPORT	3.5000	$50.000	175.00
				Total Amount	7,504.28

dhec
Healthy People. Healthy Communities.

UST 43T DOCKETING

SHREE GAJVAKRA LLC
205 FAIRWAY DR
LAURENS SC 29360

JAN 2 9 2019

Re: Site-Specific Work Plan (SSWP) Approval and Groundwater Sampling Notice to Proceed (NTP)
Westside Quick Stop, 821 W Parker Rd, Greenville, SC
UST Permit #12430; CA #58883
Release Reported October 23, 2012
SSWP and cost proposal received December 14, 2018
Greenville County

To Whom it May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced SSWP submitted by your contractor. All work should be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan (ACQAP), and in compliance with all applicable regulations. A copy of the current revision of the UST QAPP is available at http://www.scdhec.gov/Environment/LW/UST/ReleaseAssessmentClean-up/QualityAssurance/

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On all correspondence regarding this site, please reference UST Permit #12430. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-0631, by fax at (803) 898-0673, or by e-mail at Looperam@dhec.sc.gov.

Sincerely,

Adam Looper, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement (ACA)

cc: Environmental Laboratories, Inc., P.O. Box 1729, Travelers Rest, SC 29690 (w/enc.)
Technical file (with enc.)

Approved Cost Agreement 58883

Facility: 12430 WESTSIDE QUICK STOP
LOOPERAM
PO Number:

Task / Description	Categories	Item Description	Qty / Pct	Unit Price	Amount
01 PLAN					
		A1 SITE SPECIFIC WORK PLAN	0.5000	$150.000	75.00
04 MOB/DEMOB					
		B1 PERSONNEL	2.0000	$423.000	846.00
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		AA WASTEWATER	75.0000	$0.560	42.00
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		PRT REPORT PREPARATION	0.1200	$6,700.250	804.03
25 WELL REPAIR					
		A1 ADDITIONAL COPIES OF REPORT	3.5000	$50.000	175.00
				Total Amount	7,504.28

Document Receipt Information

☒ Hard Copy ■ CD ☐ Email

Date Received 6-17-19

Permit Number 12430

Project Manager Adam Looper

Name of Contractor Petra-tech

UST Certification Number _____

Docket Number 44tech

Scanned _____

GWS

REPORT OF GROUNDWATER SAMPLING APRIL 2019

Westside Quick Stop
SCDHEC UST Permit #12430
Cost Agreement #58882 & 58883
821 West Parker Road
Greenville, South Carolina
Greenville County

PTE Job No. J18-687-A

May 9, 2019

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

Petra-Tech Environmental
2435 East North Street
Suite 1108-202
Greenville, SC 29615

www.petratechenv.com

May 9, 2019

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

Attention: Mr. Adam Looper

Subject: **Report of Groundwater Sampling – April 2019**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
Cost Agreement ##58882 & #58883
PTE Job No. J18-687-A

Dear Mr. Looper,

On behalf of Shree Gajvakra LLC, Westside Quick Stop, Inc., and Environmental Laboratories, Inc., Petra-Tech Environmental, LLC submits herein the completed *Report of Groundwater Sampling - April 2019* for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive letters dated January 29, 2019.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565



1.0 INTRODUCTION

The subject property is located at 821 West Parker Road in Greenville, Greenville County, South Carolina (**Figure 1**) and currently operates as a retail petroleum fueling station and convenience store. The site is bordered primarily by residential properties with the exception of a commercial property to the northeast and northwest.

According to the South Carolina Department of Health and Environmental Control Online Underground Storage Tank Registry database, three underground storage tanks (one 1,000-gallon kerosene and two 6,000-gallon regular gasoline) are currently in use at the site. Additionally, a 4,000-gallon super/premium gasoline underground storage tank is located at the site and is currently classified as extended-out-of-use. Two separate releases have been reported at the site. An Initial Groundwater Assessment, Tier I Assessment, and initial Tier II Assessment were completed in response to these releases.

As a result of the detection of free-phase petroleum product in groundwater monitoring well 12430-MW01 during a May 2016 groundwater gauging event conducted by the South Carolina Department of Health and Environmental Control, an additional Tier II Assessment and two 96-hour long-term AFVR/MMPE events were completed at the site in early 2017. The results of the AFVR/MMPE events were submitted to the South Carolina Department of Health and Environmental Control in a *Report of Long-Term AFVR/MMPE Events* dated May 8, 2017; and the results of the additional Tier II Assessment were submitted to the South Carolina Department of Health and Environmental Control in a *Tier II Assessment Report* dated May 29, 2017.

Two additional 96-hour long-term AFVR/MMPE events were completed at the site in May 2018. The results of the AFVR/MMPE events were submitted to the South Carolina Department of Health and Environmental Control in a *Report of Long-Term AFVR/MMPE Events* dated May 28, 2018.

A monitoring well network consisting of forty-one groundwater monitoring wells (12430-MW01 through 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW14I, 12430-MW15, 12430-MW15I, 12430-MW16, 12430-MW16I, 12430-MW17, 12430-MW17I, 12430-MW18, 12430-MW18I, 12430-MW19, 12430-MW19I, 12430-MW20 through 12430-MW22, 12430-MW22I, 12430-MW23, 12430-MW23I, 12430-MW24 through 12430-MW26, 12430-MW26I, 12430-MW27, 12430-MW27I, 12430-MW28, 12430-MW0X, and 12430-MW0XR) and three recovery wells (12430-RW01 through 12430-RW03) is currently associated with the site. The South Carolina Department of Health and Environmental Control issued a Groundwater Sampling Site-Specific Work Plan Directive on December 3, 2018. The work plan was submitted on December 9, 2018 and was approved by the South Carolina Department of Health and Environmental Control in a Directive Letter dated January 29 2019. The results of the assessment activities are included herein.

2.0 ASSESSMENT INFORMATION

2.1 Groundwater Sampling

A comprehensive groundwater sampling event was conducted at the site between April 22, 2019 and April 23, 2019 by Mr. Tyler Kassing of Petra-Tech Environmental, LLC. Quality Assurance verification was provided by Ms. Kaye Jones.

Wells were purged prior to sampling using an adjustable rate submersible pump or peristaltic pump until it was determined that groundwater flow through the well screen was not inhibited by silt or fine sand and physical field parameters had stabilized. Field parameters were measured using a Horiba U-50 multiparameter water quality meter and a flow cell. Approximately 140 gallons of purge-water generated during the monitoring well drilling, development, and sampling were transported off-site for disposal. Waste transportation and disposal records are attached in **Appendix A**. Monitoring well purging and sampling logs are included in **Appendix B**.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were submitted to Pace Analytical Services for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tert-butyl-ether (MTBE), 8-oxygenates, and 1,2-dicholorotehtane (1,2-DCA) by Environmental Protection Agency (EPA) Method 8260B; and 1,2-dibromoethane (EDB) by EPA Method 8011. One duplicate sample per twenty wells sampled and one field blank for each day in the field was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B and EDB by EPA Method 8011. Additionally, one trip blank for each sample cooler was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B.

2.2 Assessment Results

2.2.1 Groundwater Occurrence

Site-wide stabilized groundwater elevations were recorded on April 22, 2019. A tabulation of the groundwater level data is provided in **Table 1**. A water table elevation contour map showing the occurrence and direction of groundwater flow in the shallow, water table aquifer is presented as **Figure 2**. Groundwater flow from the source area is generally to the southeast.

2.2.2 Groundwater Monitoring Well Sampling Results

Of the forty-one groundwater monitoring wells and three recovery wells sampled for laboratory analysis during the current scope of work, petroleum compounds were detected above South Carolina established Risk-Based Screening Levels in wells 12430-MW02, 12430-MW04, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW22I, 12430-MW23, 12430-MW23I, 12430-MW25, 12430-MW26, 12430-MW0X, 12430-MW0XR, 12430-RW02, and 12430-RW03.

Petroleum compounds detected above South Carolina established Risk-Based Screening Levels include:

- Benzene 12430-MW02, 12430-MW04, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW22I, 12430-MW23I, 12430-MW25, 12430-MW26, 12430-MW0X, 12430-RW02, 12430-RW03
- Toluene 12430-MW12, 12430-MW12I, 12430-RW02
- Ethylbenzene 12430-RW02
- Xylenes 12430-RW02

- MTBE 12430-MW21, 12430-MW23I
- Naphthalene 12430-MW12I, 12430-MW20, 12430-MW21, 12430-MW23I, 12430-RW02
- 1,2-DCA
- EDB 12430-MW23, 12430-MW23I, 12430-MW26, 12430-MW0XR, 12430-RW02
- ETBE
- ETBA
- TAME
- DIPE 12430-MW20, 12430-MW21, 12430-MW23I
- Ethanol
- TBF
- TBA
- TAA 12430-MW02, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23I, 12430-RW03

Free-phase petroleum product was detected in groundwater monitoring wells 12430-MW01 (0.20 feet) and 12430-MW24 (1.72 feet), and in recovery well 12430-RW01 (2.35 feet).

The results of the additional monitoring well laboratory analyses are summarized in **Table 2.** A benzene isoconcentration map is included as **Figure 3**. Laboratory data sheets are provided in **Appendix C**.

3.0 CONCLUSIONS

Free-phase petroleum product remains at the site in in groundwater monitoring wells 12430-MW01 (0.20 feet) and 12430-MW24 (1.72 feet), and in recovery well 12430-RW01 (2.35 feet). Additional 96-hour Aggressive Fluid Vapor Recovery (AFVR) events should be implemented as soon as possible to continue free-phase petroleum product removal. Groundwater sampling events should be implemented on a semi-annual schedule to monitor migration of the groundwater contaminant plume.

TABLES

TABLE 1
Monitoring Well and Groundwater Surface Elevation Data
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW01	1005.56	1005.32	08/13/2013	-	17.97	-	987.35	30.00	15.00 - 30.00	990.56 - 975.56
			03/31/2015	-	22.63	-	982.69			
			04/10/2017	25.21	29.37	4.16	978.86			
			04/24/2017	24.83	29.29	4.46	979.15			
			10/03/2017	24.28	29.31	5.03	979.53			
			03/12/2018	21.69	26.58	4.89	982.16			
			04/22/2019	17.00	17.20	0.20	988.26			
12430-MW02	1006.50	1006.20	08/13/2013	-	18.85	-	987.35	30.00	15.00 - 30.00	991.50 - 976.50
			03/31/2015	-	21.69	-	984.51			
			04/10/2017	-	27.44	-	978.76			
			10/03/2017	-	26.53	-	979.67			
			03/12/2018	-	23.82	-	982.38			
			04/22/2019	-	17.93	-	988.27			
12430-MW03	1008.72	1008.49	08/13/2013	-	21.00	-	987.49	30.00	15.00 - 30.00	993.72 - 978.72
			03/31/2015	-	23.81	-	984.68			
			04/10/2017	DRY			NA			
			10/03/2017	DRY			NA			
			03/12/2018	-	26.51	-	981.98			
			04/22/2019	-	19.80	-	988.69			
12430-MW04	1008.45	1008.27	03/31/2015	-	23.47	-	984.80	30.49	20.29 - 30.29	988.16 - 978.16
			04/10/2017	DRY			NA			
			10/03/2017	-	28.19	-	980.08			
			03/12/2018	-	25.86	-	982.41			
			04/22/2019	-	19.34	-	988.93			
12430-MW04I	1008.35	1008.12	04/10/2017	-	29.36	-	978.76	53.17	47.97 - 52.97	960.38 - 955.38
			10/03/2017	-	28.35	-	979.77			
			03/12/2018	-	25.93	-	982.19			
			04/22/2019	-	19.68	-	988.44			
12430-MW05	998.24	997.73	03/31/2015	-	13.01	-	984.72	20.80	10.60 - 20.60	987.64 - 977.64
			04/10/2017	-	18.61	-	979.12			
			10/03/2017	-	18.26	-	979.47			
			03/12/2018	-	15.20	-	982.53			
			04/22/2019	-	9.71	-	988.02			
12430-MW06	998.58	998.27	03/31/2015	-	13.32	-	984.95	21.47	11.27 - 21.27	987.31 - 977.31
			04/10/2017	-	19.01	-	979.26			
			10/03/2017	-	18.25	-	980.02			
			03/12/2018	-	15.53	-	982.74			
			04/22/2019	-	9.71	-	988.56			
12430-MW07	1006.27	1005.88	03/31/2015	-	19.61	-	986.27	31.04	20.84 - 30.84	985.43 - 975.43
			04/10/2017	DRY			NA			
			10/03/2017	-	25.52	-	980.36			
			03/12/2018	-	22.85	-	983.03			
			04/22/2019	-	17.13	-	17.13			
12430-MW08	1007.86	1007.43	03/31/2015	-	22.71	-	984.72	31.10	20.90 - 30.90	986.96 - 976.96
			04/10/2017	-	28.58	-	978.85			
			10/03/2017	-	27.62	-	979.81			
			03/12/2018	-	25.04	-	982.39			
			04/22/2019	-	19.09	-	988.34			
12430-MW09	1009.07	1008.55	03/31/2015	-	23.20	-	985.35	30.04	19.84 - 29.84	989.23 - 979.23
			04/10/2017	DRY			NA			
			10/03/2017	-	27.96	-	980.59			
			03/12/2018	-	25.74	-	982.81			
			04/22/2019	-	19.15	-	989.40			
12430-MW10	1008.54	1008.22	03/31/2015	-	22.94	-	985.28	30.47	20.27 - 30.27	988.27 - 978.27
			04/10/2017	-	29.30	-	978.92			
			10/03/2017	-	26.98	-	981.24			
			03/12/2018	Car Parked Above Well						
			04/22/2019	-	18.03	-	990.19			
12430-MW11	1008.26	1007.84	03/31/2015	-	22.82	-	985.02	30.83	20.63 - 30.63	987.63 - 977.63
			04/10/2017	-	29.37	-	978.47			
			10/03/2017	-	27.16	-	980.68			
			03/12/2018	-	25.70	-	982.14			
			04/22/2019	-	17.79	-	990.05			
12430-MW12	1005.64	1005.35	04/10/2017	-	26.59	-	978.76	35.69	25.49 - 35.49	980.15 - 970.15
			10/03/2017	-	25.39	-	979.96			
			03/12/2018	-	23.41	-	981.94			
			04/22/2019	-	18.38	-	986.97			
12430-MW12I	1005.65	1005.37	04/10/2017	-	26.65	-	978.72	45.63	40.43 - 45.43	965.22 - 960.22
			10/03/2017	-	25.81	-	979.56			
			03/12/2018	-	23.05	-	982.32			
			04/22/2019	-	17.01	-	988.36			

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW14	1000.38	1000.02	04/10/2017	-	21.25	-	978.77	25.57	15.37 - 25.37	985.01 - 975.01
			10/03/2017	-	20.46	-	979.56			
			03/12/2018	-	17.75	-	982.27			
			04/22/2019	-	11.69	-	988.33			
12430-MW14I	1000.31	1000.11	04/10/2017	-	21.41	-	978.70	67.92	62.72 - 67.72	937.59 - 932.59
			10/03/2017	-	20.64	-	979.47			
			03/12/2018	-	17.93	-	982.18			
			04/22/2019	-	12.13	-	987.98			
12430-MW15	1000.15	999.88	04/10/2017	-	21.18	-	978.70	26.83	16.63 - 26.63	983.52 - 973.52
			10/03/2017	-	20.52	-	979.36			
			03/12/2018	-	17.70	-	982.18			
			04/22/2019	-	11.89	-	987.99			
12430-MW15I	1000.06	999.88	04/10/2017	-	21.24	-	978.64	62.13	56.93 - 61.93	943.13 - 938.13
			10/03/2017	-	20.55	-	979.33			
			03/12/2018	-	17.78	-	982.10			
			04/22/2019	-	12.06	-	987.82			
12430-MW16	1001.01	1000.63	04/10/2017	-	22.10	-	978.53	27.71	17.51 - 27.51	983.50 - 973.50
			10/03/2017	-	21.38	-	979.25			
			03/12/2018	-	18.59	-	982.04			
			04/22/2019	-	12.70	-	987.93			
12430-MW16I	1001.10	1000.72	04/10/2017	-	22.11	-	978.61	65.49	60.29 - 65.29	940.81 - 935.81
			10/03/2017	-	21.41	-	979.31			
			03/12/2018	-	18.65	-	982.07			
			04/22/2019	-	12.86	-	987.86			
12430-MW17	1000.25	999.85	04/10/2017	-	21.36	-	978.49	28.82	18.62 - 28.62	981.63 - 971.63
			10/03/2017	-	20.76	-	979.09			
			03/12/2018	-	17.81	-	982.04			
			04/22/2019	-	12.50	-	987.35			
12430-MW17I	1000.44	1000.01	04/10/2017	-	21.46	-	978.55	60.41	55.21 - 60.21	945.23 - 940.23
			10/03/2017	-	20.82	-	979.19			
			03/12/2018	-	17.97	-	982.04			
			04/22/2019	-	11.74	-	988.27			
12430-MW18	1003.14	1002.78	04/10/2017	-	24.38	-	978.40	29.30	19.10 - 29.10	984.04 - 974.04
			10/03/2017	-	23.61	-	979.17			
			03/12/2018	-	20.90	-	981.88			
			04/22/2019	NOT LOCATED						
12430-MW18I	1002.36	1001.89	03/12/2018	-	19.87	-	982.02	65.47	60.27 - 65.27	942.09 - 937.09
			04/22/2019	NOT LOCATED						
12430-MW19	1008.61	1008.24	04/10/2017	-	29.68	-	978.56	39.69	29.49 - 39.49	979.12 - 969.12
			10/03/2017	-	28.83	-	979.41			
			03/12/2018	-	26.07	-	982.17			
			04/22/2019	-	20.01	-	988.23			
12430-MW19I	1008.55	1008.18	04/10/2017	-	29.57	-	978.61	70.68	65.48 - 70.48	943.07 - 938.07
			10/03/2017	-	28.82	-	979.36			
			03/12/2018	-	25.93	-	982.25			
			04/22/2019	-	20.24	-	987.94			
12430-MW20	1008.40	1008.01	04/10/2017	-	29.41	-	978.60	40.87	30.67 - 40.67	977.73 - 967.73
			10/03/2017	-	28.22	-	979.79			
			03/12/2018	-	25.76	-	982.25			
			04/22/2019	-	22.19	-	985.82			
12430-MW21	1007.16	1006.73	04/10/2017	-	28.06	-	978.67	35.14	24.94 - 34.94	982.22 - 972.22
			10/03/2017	-	27.19	-	979.54			
			03/12/2018	-	24.54	-	982.19			
			04/22/2019	-	18.89	-	987.84			
12430-MW22	1007.45	1007.12	04/10/2017	-	28.31	-	978.81	35.06	24.86 - 34.86	982.59 - 972.59
			10/03/2017	-	27.30	-	979.82			
			03/12/2018	-	24.68	-	982.44			
			04/22/2019	-	18.69	-	988.43			
12430-MW22I	1007.28	1007.03	04/10/2017	-	28.29	-	978.74	49.72	44.52 - 49.52	962.76 - 957.76
			10/03/2017	-	27.46	-	979.57			
			03/12/2018	-	24.73	-	982.30			
			04/22/2019	-	18.61	-	988.42			
12430-MW23	1008.66	1008.24	04/10/2017	-	29.61	-	978.63	39.87	29.67 - 39.67	978.99 - 968.99
			10/03/2017	-	28.71	-	979.53			
			03/12/2018	-	26.14	-	982.10			
			04/22/2019	-	20.04	-	988.20			
12430-MW23I	1008.66	1008.21	10/03/2017	-	28.73	-	979.48	61.69	56.49 - 61.49	952.17 - 947.17
			03/12/2018	-	26.02	-	982.19			
			04/22/2019	-	20.20	-	988.01			
12430-MW24	1006.83	1006.39	04/10/2017	26.56	31.04	4.48	978.49	35.25	25.05 - 35.05	981.78 - 971.78
			04/24/2017	25.87	30.62	4.75	979.10			
			10/03/2017	25.29	31.56	6.27	979.22			
			03/12/2018	23.11	27.37	4.26	982.00			
			04/22/2019	18.40	20.12	1.72	987.47			

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW25	1007.57	1007.27	04/10/2017	-	28.72	-	978.55	38.20	28.00 - 38.00	979.57 - 969.57
			10/03/2017	-	27.82	-	979.45			
			03/12/2018	-	25.13	-	982.14			
			04/22/2019	-	19.20	-	988.07			
12430-MW26	1007.68	1007.33	04/10/2017	-	28.52	-	978.81	36.45	26.25 - 36.25	981.43 - 971.43
			10/03/2017	-	27.50	-	979.83			
			03/12/2018	-	24.94	-	982.39			
			04/22/2019	-	18.84	-	988.49			
12430-MW26I	1007.67	1007.27	04/10/2017	-	28.53	-	978.74	55.11	49.91 - 54.91	957.76 - 952.76
			10/03/2017	-	27.50	-	979.77			
			03/12/2018	-	24.91	-	982.36			
			04/22/2019	-	19.05	-	988.22			
12430-MW27	1007.24	1006.96	10/03/2017	-	27.26	-	979.70	34.70	24.50 - 34.50	982.74 - 972.74
			03/12/2018	-	24.99	-	981.97			
			04/22/2019	-	18.45	-	988.51			
12430-MW27I	1007.49	1007.08	03/12/2018	-	25.20	-	981.88	65.41	60.21 - 65.21	947.28 - 942.28
			04/22/2019	-	18.86	-	988.22			
12430-MW28	1007.08	1006.76	10/03/2017	-	26.82	-	979.94	35.91	25.71 - 35.71	981.37 - 971.37
			03/12/2018	-	24.20	-	982.56			
			04/22/2019	-	18.00	-	988.76			
12430-RW01	1007.18	1006.69	04/10/2017	27.34	29.98	2.64	978.56	40.69	20.49 - 40.49	986.69 - 966.69
			04/17/2017	26.99	30.19	3.20	978.74			
			10/03/2017	25.62	31.71	6.09	979.24			
			03/12/2018	23.14	28.36	5.22	981.98			
			04/22/2019	18.00	20.35	2.35	987.99			
12430-RW02	1006.53	1006.23	04/10/2017	26.58	30.63	4.05	978.44	38.08	17.88 - 37.88	988.65 - 968.65
			04/24/2017	25.58	28.63	3.05	979.74			
			10/03/2017	25.61	30.26	4.65	979.23			
			03/12/2018	23.63	26.94	3.31	981.61			
			04/22/2019	-	18.18	-	988.05			
12430-RW03	1006.17	1005.90	04/10/2017	-	27.19	-	978.71	40.00	19.80 - 39.80	986.37 - 966.37
			10/03/2017	-	26.29	-	979.61			
			03/12/2018	-	23.57	-	982.33			
			04/22/2019	-	17.70	-	988.20			
12430-MWX	1007.47	1007.20	04/10/2017	28.53	NA	+1.47	NA	30.27	20.07 - 30.07	987.40 - 977.40
			04/17/2017	28.30	NA	+1.70	NA			
			10/03/2017	-	27.69	Sheen	979.51			
			03/12/2018	-	24.07	Sheen	983.13			
			04/22/2019	-	19.11	-	988.09			
12430-MWXR	1007.67	1007.31	04/10/2017	-	28.66	-	978.65	38.25	28.05 - 38.05	979.62 - 969.62
			04/17/2017	28.43	28.45	0.02	978.87			
			10/03/2017	-	27.83	Sheen	979.48			
			03/12/2018	-	25.06	-	982.25			
			04/22/2019	-	19.20	-	988.11			

NOTES:
Measurements are in feet
BGS - below ground surface
Elevations are NAVD 88

TABLE 2
Summary of Groundwater Analytical Results
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW01	08/13/2013		***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.90***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***27000***	<10	NT
		-	***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.93***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***28000***	<10	NT
	03/30/2015		***3000***	***6300***	***440***	***2500***	***800***	<20	<0.049	<7.4	<10	<75	<13	***68***	<960	<33	***180 J***	***1800***	<4.7	NT
		-	***3000***	***6200***	***420***	***2500***	***820***	<20	<0.0049	<7.4	<10	<75	<13	***67***	<960	<33	***190 J***	***1900***	<4.7	NT
	04/10/2017	***4.16***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***4.89***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/2019	***0.20***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-MW02	08/13/2013	-	***1000***	***1000***	***200***	***570***	***23***	<20	<0.019	<20	<20	<400	<200	<100	<2000	<100	<400	***910***	<10	NT
	03/30/2015	-	***23000***	***51000***	***3200***	***15000***	***520***	***620***	***0.36***	<74	<100	<750	<130	***1600***	<9600	<330	<1100	***20000***	<4.7	NT
	04/11/2017	-	***851***	***659***	***139***	***562***	<8.5	<10.0	<0.021	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	**687**	22.0	NT
	03/19/2018	-	***545***	***710***	***134***	***924***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1240***	NT	<2.5
			570	***494***	***108***	***817***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1020***	NT	<2.5
	04/23/2019	-	***577***	***82.3***	***37.3***	***609***	<15.5	***11.9 J***	<0.011	<10.3	<42.3	<270	<15.2	<17.4	<720	<120	<455	***597***	NT	NT
12430-MW03	08/13/2013	-	<1	<1	<1	<1	<1	<1	<0.020	<1	<1	<20	<10	<5	<100	<5	<20	<20	<10	NT
	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***9 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW04	03/30/2015	-	***41***	***31***	***6.7***	***63***	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	***4.4***	<19	<0.66	<2.3	***5.1 J***	***6.4 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	***241***	***11.3***	<3.2	***346***	<3.4	<4.0	<0.020	<3.6	<7.2	<64.2	<6.8	***12.5***	<262	<14.6	<115	<154	NT	NT
	04/23/2019	-	***160***	***24.0***	<3.7	***224***	<6.2	<4.2	<0.011	<4.1	<16.9	<108	<6.1	***45.1***	<288	<48.2	***277***	<131	NT	NT
12430-MW04I	04/11/2017	-	***3.8 J***	***1.9 J***	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	***3.2 J***	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW05	03/31/2015	-	***0.22 J***	***0.70 J***	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW06	03/31/2015	-	***0.18 J***	***0.73 J***	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***14***	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	**46.4**	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	<2.5
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW07	03/31/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	4.8 J	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW08	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***26***	***14 J***	<4.7	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW09	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW10	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.0049	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***3.6 J***	<1.5	<4.7	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***286***	NT
	03/12/2018	NOT SAMPLED - CAR PARKED ABOVE MONITORING WELL																		
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW11	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***6.7 J***	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	***2.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***77.5 J***	***68.4***	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	<2.5
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW12	04/15/2017	-	***2050***	***3930***	***422***	***1580***	<34.0	<40.0	<0.019	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3010***	<2.5	NT
	03/19/2018	-	***1930***	***2840***	***383***	***1380***	<42.5	<50.0	<0.020	<45.0	<90.0	<802	<85.0	<42.5	<3280	<182	<1440	***3490***	NT	NT
	04/23/2019	-	***1820***	***3130***	***410***	***1600***	<62.0	<41.8	<0.011	<41.2	<169	<1080	<60.8	<69.8	<2880	<482	<1820	***4450***	NT	NT
12430-MW12I	04/15/2017	-	***2700***	***6210***	***576***	***2740***	<68.0	<80.0	<0.020	<72.0	<144	<1280	<136	<68.0	<5240	<292	<2310	***3680 J***	<2.5	NT
	03/19/2018	-	***1440***	***2880***	***231***	***1570***	<34.0	***41.8 J***	<0.020	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3830***	NT	NT
	04/23/2019	-	***2460***	***3070***	***338***	***1770***	<62.0	***71.1 J***	<0.012	<41.2	<169	<1080	<60.8	***121***	<2880	<482	<1820	***4640***	NT	NT
12430-MW14	04/11/2017	-	***746***	***748***	***80.5***	***476***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	***795 J***	<36.5	<288	***2050***	***3.1 J***	NT
		-	***764***	***749***	***79.6***	***462***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***2220***	***10.6***	NT
	03/12/2018	-	***526***	***535***	***59.1***	***374***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	<384	NT	NT
		-	***520***	***522***	***57.4***	***358***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1070***	NT	NT
	04/22/2019	-	***575***	***300***	***56.1***	***614***	<12.4	<8.4	<0.011	<8.2	<33.8	<216	<12.2	<14.0	<576	<96.4	<364	***3150***	NT	NT
12430-MW14I	04/11/2017	-	***33.4***	***16.0***	***2.6 J***	***15.0***	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***111***	<2.5	NT
	03/12/2018	-	***3.4 J***	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW15	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW15I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW16	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***2.8 J***	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW16I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW17	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW17I	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW18	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	NOT LOCATED																		
12430-MW18I	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	NOT LOCATED																		
12430-MW19	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW19I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	3.2 J	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW20	04/10/2017	-	***341***	***286***	***26.1***	***119***	<4.2	<5.0	<0.020	<4.5	<9.0	<80.2	<8.5	***39.3***	<328	<18.2	<144	***1010***	<2.5	NT
	03/19/2018	-	***1620***	***1100***	***68.0***	***707***	<21.2	<25.0	***0.062***	<22.5	<45.0	<401	<42.5	***73.7***	<1640	<91.2	<721	***3740***	NT	NT
	04/23/2019	-	***1830***	***63.3***	***231***	***395***	<38.8	<26.1	<0.011	<25.8	<106	<674	<38.0	***170***	<1800	<301	<1140	***7910***	NT	NT
			1610	***62.6***	***209***	***372***	<38.8	***26.6 J***	<0.011	<25.8	<106	<674	<38.0	***157***	<1800	<301	<1140	***8490***	NT	NT
12430-MW21	04/15/2017	-	***5520***	***1620***	***675***	***5700***	***1240***	***285***	***0.42***	<72.0	<144	<1280	<136	***585***	<5240	<292	<2310	***4390***	<2.5	NT
	03/19/2018	-	***3230***	***487***	***197***	***3660***	***732***	***404***	***0.16***	<36.0	<72.0	<642	<68.0	***329***	<2620	<146	<1150	***4530***	NT	NT
	04/23/2019	-	***3540***	***779***	***230***	***2070***	***560***	***288***	<0.011	<51.5	<212	<1350	<76.0	***264***	<3600	<602	<2280	***5590***	NT	NT
12430-MW22	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	0.074	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW22I	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	***37.6***	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	***79.8 J***	NT	NT
12430-MW23	04/10/2017	-	***1400***	<20.0	<20.0	<33.8	***47.4 J***	***72.4***	<0.020	<22.5	<45.0	<401	<42.5	***44.7 J***	<1640	<91.2	<721	***1030 J***	<2.5	NT
	03/19/2018	-	***381***	<6.4	<6.4	<20.0	***45.6***	***9.6 J***	<0.020	***8.8 J***	<14.4	<128	<13.6	***26.0***	<524	<29.2	<231	***909***	NT	NT
	04/23/2019	-	***2.8 J***	<2.0	<1.8	<5.0	***5.7***	<2.1	***0.12***	***3.0 J***	<8.5	<53.9	<3.0	***4.5 J***	<144	<24.1	<91.0	72.8 J		
12430-MW23I	10/03/2017	-	***115***	***4.9 J***	***3.1 J***	<5.0	***9.3***	***3.3 J***	<0.019	<1.8	<3.6	<32.1	<3.4	***16.3***	<131	<7.3	<57.7	***202***	<2.5	NT
			105	***4.5 J***	***2.9 J***	<5.0	***8.4***	***3.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	***14.8***	<131	<7.3	<57.7	***199***	<2.5	NT
	03/19/2018	-	***4840***	***67.5 J***	***68.5 J***	<125	***291***	***125***	***0.023***	<45.0	<90.0	<802	<85.0	***395***	<3280	<182	<1440	***10400***	NT	NT
	04/23/2019	-	***2260***	<40.2	<36.8	<100	***163***	***66.7 J***	***0.082***	<41.2	<169	<1080	<60.8	***224***	<2880	<482	<1820	***5760***	NT	NT
12430-MW24	04/10/2017	***4.48***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***4.26***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/2019	***1.72***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW25	04/15/2017	-	***11.6***	***2.0 J***	<1.6	<2.7	***3.7 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
			11.4	***2.5 J***	<1.6	<2.7	***3.5 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	***166***	***42.4***	<3.2	***56.6***	***11.8***	<4.0	<0.020	<3.6	<7.2	<64.2	<6.8	***4.2 J***	<262	<14.6	<115	***390***	NT	NT
	04/23/2019	-	***215***	<4.0	<3.7	***52.3***	***21.5***	<4.2	<0.011	<4.1	<16.9	<108	<6.1	<7.0	<288	<48.2	<182	***181 J***	NT	NT
12430-MW26	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	***15.2***	<1.6	<1.6	***14.0***	<1.7	<2.0	***0.056***	<1.8	<3.6	<32.1	<3.4	***2.7 J***	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	***39.0***	<2.0	<1.8	***33.9***	<3.1	<2.1	***0.045***	<2.1	<8.5	<53.9	<3.0	***4.7 J***	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW26I	04/15/2017	-	***2.6 J***	***2.8 J***	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	***1.8 J***	***7.1***	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW27	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW27I	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW28	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW0X	04/10/2017	***>1.47***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***Sheen***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/23/2019	-	***1780***	***4760***	***364***	***2550***	***1480***	<83.6	***1.5***	<82.4	<338	<2160	<122	<140	<5760	<964	<3640	***6000***	NT	NT
12430-MW0XR	04/11/2017	-	***3580***	***9410***	***621***	***3390***	***516***	<200	<0.020	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	***18.2***	NS
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	***30.8***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	***2.1 J***	<131	<7.3	<57.7	<76.8	NT	<2.5
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	***4.9 J***	<2.1	***0.21***	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-RW01	04/10/2017	***2.64***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***5.22***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/22/2019	***2.35***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW02	04/10/2017	***4.05***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***3.31***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	04/23/2019	-	***1470***	***7790***	***889***	***10500***	<155	***1070***	***0.059***	<103	<423	<2700	<152	<174	<7200	<1200	<4550	<3280	NT	NT
			1230	***6530***	***518***	***7320***	<310	***535***	***0.048***	<206	<846	<5390	<304	<349	<14400	<2410	<9100	<6560	NT	NT
12430-RW03	04/15/2017	-	***7020***	***12200***	***1890***	***9200***	***298 J***	***275 J***	<0.020	<180	<360	<3210	<340	***251 J***	<13100	<730	<5770	<7680	<2.5	NT
			6750	***11700***	***1890***	***9100***	***304 J***	***269 J***	<0.020	<180	<360	<3210	<340	***257 J***	<13100	<730	<5770	<7680	<2.5	NT
	03/19/2018	-	***5770***	***15400***	***2040***	***12100***	***205 J***	***261 J***	NT	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	NT	NT
	04/23/2019		***108***	***139***	***42.2***	***485***	***23.7***	***13.2***	<0.011	<4.1	<16.9	<108	<6.1	***14.3***	<288	<48.2	<182	***713***	NT	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
FIELD BLANK 1	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
FIELD BLANK 2	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
TRIP BLANK 1	-	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	NT	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
TRIP BLANK 2	-	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	NT	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
TRIP BLANK 3	-	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	NT	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

NOTES:

RBSL - Risk Based Screening Level

Bold values indicate concentrations detected above the laboratory method detection limit.

Shaded values indicate concentrations exceeding RBSLs.

NE - Not Established

NT - Not Tested

FIGURES



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

N

SITE

Ⓦ Private Water supply Well

Title	Site Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County
Date	05/11/2019
Job No.	J19-687-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 1

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

MW-9 989.40

MW-8 988.34

MW-28 988.76

MW-7 988.75

MW-12 986.97 (988.36) MW-12i

MW-22 988.43 (988.42) MW-22i

MW-2 988.27

MW-1 (988.20)

RW-3 (988.05)

RW-2 (988.20)

MW-21 (987.84)

MW-24 (987.47)

RW-1 (987.99)

MW-14 988.33 MW-14i (987.98)

Approximate location of suspected out-of-service private water supply well

MW-6 988.56

MW-X 988.09

MW-15 987.99

MW-15i (987.82)

MW-XR 988.11

MW-25 988.07

MW-26i (988.22)

MW-26 988.49

MW-4 988.93

MW-4i (988.44)

MW-11 990.05

MW-3 988.69

MW-20 (985.82)

MW-23i (988.01)

MW-23 988.20

MW-19i (987.94)

MW-19 988.23

MW-27 988.51

MW-27i (988.22)

MW-16 987.93

MW-16i (987.86)

MW-18i Not Located

MW-18 Not Located

MW-17i (988.27)

MW-17 987.35

MW-5 988.02

990.19 MW-10

988.50

988.25

988.00

TRANSMISSION LINE

GRASS

VACUUM

ASPHALT

GRAVEL

ISLAND

CHAINLNK FENCE

Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.25-feet

541.28 Groundwater Elevation (April 22, 2019)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

N

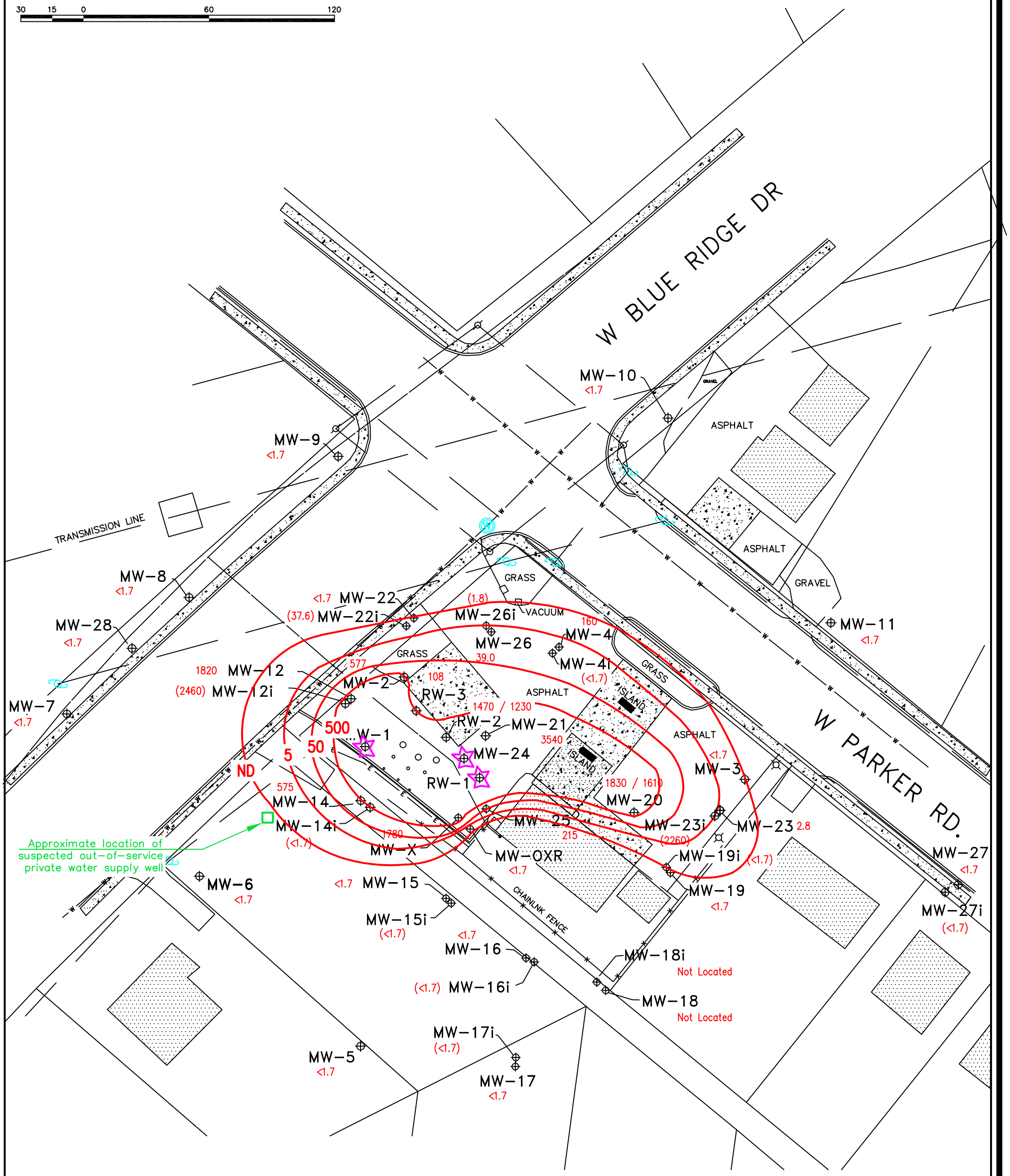
Title	Groundwater Potentiometric Map – Shallow Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	05/11/2019
Job No.	J19-687-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120



Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J — Benzene Concentration in Micrograms Per Liter

(2.5J) — Benzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes

Benzene Isoconcentration Line

N

Title	Benzene Isoconcentration Map – April 2019
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	05/09/2019
Job No.	J19-687-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX A

Please print or type
(Form designed for use on elite (12-pitch) typewriter.)

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number:
2. Page 1 of 1
3. Emergency Response Phone:
4. Waste Tracking Number: WTN00521191

5. Generator's Name and Mailing Address: Petra-Tech Env.
2435 E North St. Suite 1108-202
Greenville, SC 29615
Generator's Phone: 864-631-2490

Generator's Site Address (if different than mailing address):

6. Transporter 1 Company Name: Petra-Tech Env
U.S. EPA ID Number:

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address: VLS Recovery Services
305 S Main St.
Wauldin, SC 29662
Facility's Phone: 864-962-9953
U.S. EPA ID Number: SCR000762468

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non haz/non regulated well water. 16374	1	tote	330	gal
2. Fast Point #12 Greenwood, SC UST 04778	~114 gallons			
3. Stockman Oil Two Greenwood, SC UST 04736	~35 gallons			
4. Westside Quick stop UST 12430	~140 gallons			

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Jimmy Slagh
Signature: [signature]
Month 5 Day 21 Year 19

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jimmy Slagh
Signature: [signature]
Month 5 Day 21 Year 19

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Hinger Gamble
Signature: [signature]
Month 5 Day 21 Year 19

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

GC Labels • Printed in the USA
1-800-997-6966

TRANSPORTER #1

Reorder Part# MANIFEST-C6NHWC
913-897-6966

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX B

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW01	SAMPLE ID: 12430 -	DATE: 4/22/19

PURGING DATA

17.00/17.20

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet– feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)		pH (su)		COND. (µS)		DO (mg/L)		TURB IDITY (NTU)		COLOR	ODOR
	—	—												

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B		—
—	3	AG	40 ml	HCL	—	—	8011		—

REMARKS: Not Sampled. 0.20-ft FP

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW02	SAMPLE ID: 12430 - MW02	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 17.93	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (30 feet − 17.93 feet) X 0.16 gallons/foot = 1.93 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR	
1650	—	—	24.61	5.86	112	1.83	36	clr	Y	
1656	2		23.82	5.71	87	1.61	68	sl cldy	Y	
1702	1		23.79	5.62	86	1.49	20.9	clr	Y	DRY
1710	.5		23.72	5.63	82	1.42	10	clr	Y	DRY

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1710
PUMP OR TUBING DEPTH IN WELL (feet): ~28	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	RFPP	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	Greenville, South Carolina
WELL NO:	12430 - MW03	SAMPLE ID:	12430 - MW03
DATE:	4/22/19		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	30	15 feet to 30 feet	19.80	RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (30 feet – 19.80 feet) X 0.16 gallons/foot = 1.63 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1142	—	—	23.62	6.81	146	2.81	14	clr	N
1153	2	2	22.91	6.37	125	1.86	26	↓	↓
1201	1	3	22.87	6.26	118	1.92	13.1	↓	↓
1209	.5	3.5	22.65	6.19	116	1.99	16.8	↓	↓
214	.5	4	22.62	6.11	112	2.02	11.1	↓	↓
1220	.5	4.5	22.60	6.08	110	1.99	9.6	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1220

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
~28'	PE		

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW04	SAMPLE ID: 12430 - MW 04	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.49	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 19.34	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (30.49 feet − 19.34 feet) X 0.16 gallons/foot = 1.78 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR	
1923	—	—	23.16	6.82	146	2.17	16	clr	Y	
1931	2	2	22.98	6.71	120	1.86	85	sl cldy	1	
1936	1	3	22.91	6.65	96	1.77	36	clr		
1943	1	4	22.90	6.60	90	1.72	12.6	clr		Dry
1950	1	5	22.90	6.60	90	1.70	9.1	clr	↓	Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1950
PUMP OR TUBING DEPTH IN WELL (feet): ~28	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina
WELL NO: 12430 - MW04I	SAMPLE ID: 12430 - MW04I
DATE: 4/22/19	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 53.17	WELL SCREEN INTERVAL DEPTH: 47 feet to 52 feet	STATIC DEPTH TO WATER (feet): 19.68	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (53.17 feet − 19.68 feet) X 0.16 gallons/foot = 5.35 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1840	—	—	23.82	6.87	146	2.86	33	clr	N
1849	5	5	23.61	6.43	110	2.31	142	cldy	↓
1901	3	8	23.11	6.27	102	2.22	36	clr	↓
1906	2	10	22.89	6.11	100	2.11	14.8	↓	↓
1913	2	12	22.92	6.16	100	2.06	12.1	↓	↓
1917	2	14	22.90	6.15	101	2.08	11.0	↓	↓
1925	2	16	22.90	6.15	101	2.05	10	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1925
PUMP OR TUBING DEPTH IN WELL (feet): ~ 52'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	Greenville, South Carolina
WELL NO:	12430 - MW05	SAMPLE ID:	12430 - MW05
DATE:	4/22/19		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	20.80	10 feet to 20 feet	9.71	RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (20.80 feet – 9.71 feet) X 0.16 gallons/foot = 1.77 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1721	—	—	22.96	6.47	126	3.16	13	clr	N
1725	1.5	1.5	22.18	6.33	103	2.87	46	↓	↓
1731	1	2.5	22.11	6.30	107	2.85	17.1	↓	↓
1736	1	3.5	22.12	6.30	102	2.81	12.8	↓	↓
1745	.5	4	22.12	6.29	100	2.80	10	↓	↓ Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/22/19	1745
PUMP OR TUBING DEPTH IN WELL (feet): ~20'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW06	SAMPLE ID: 12430 - MW06	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 21.47	WELL SCREEN INTERVAL DEPTH: 11 feet to 21 feet	STATIC DEPTH TO WATER (feet): 9.71	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (21.47 feet − 9.71 feet) X 0.16 gallons/foot = 1.88 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1346	—	—	23.27	6.86	115	2.86	18	Clr	N
1355	1	1	22.81	6.11	105	2.43	26	↓	↓
1401	1	2	22.77	6.01	96	2.12	48		
1409	1	3	22.75	5.89	92	2.06	12		
1415	.5	3.5	22.72	5.90	90	2.05	10	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1415
PUMP OR TUBING DEPTH IN WELL (feet): ~20'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW07	SAMPLE ID: 12430 - MW07	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 31.04	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 17.13	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (31.04 feet − 17.13 feet) X 0.16 gallons/foot = 2.22 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
1902	—	—	23.21	6.97	183	2.87	12	clr	N
1919	2	2	22.87	6.47	161	2.61	80	sludy	↓
1927	2	4	22.41	6.33	127	2.41	30	clr	↓
1936	1	5	22.40	6.27	125	2.39	13.9	↓	↓
1943	1	6	22.39	6.26	121	2.37	16.1	↓	↓
1950	1.5	6.5	22.39	6.22	120	2.37	9.5	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1950
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430		SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW08	SAMPLE ID: 12430 - MW08		DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 31.10	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 19.09	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (31.10 feet − 19.09 feet) X 0.16 gallons/foot = 1.92 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1819	—	—	22.60	6.81	110	2.81	15	clr	No
1826	2	2	22.41	6.37	96	2.61	37	↓	↓
1832	1	3	22.37	6.26	85	2.47	62		
1841	1	4	22.35	6.21	81	2.44	12		
1850	.5	4.5	22.34	6.20	83	2.42	10	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1850
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW09	SAMPLE ID: 12430 - MW09	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.04	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 19.15	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (30.04 feet − 19.15 feet) X 0.16 gallons/foot = 1.74 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (mS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1743	—	—	23.72	6.87	162	2.58	30	clr	N
1756	2	2	23.61	6.22	137	2.62	62	slcldy	↓
1802	1	3	23.45	6.01	121	2.47	102	cldy	↓
1809	.5	3.5	23.42	6.00	119	2.44	21.6	clr	↓
1815	.5	4	23.44	5.98	118	2.45	10	clr	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1815
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW10	SAMPLE ID: 12430 - MW10	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.47	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 18.03	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (30.47 feet − 18.03 feet) X 0.16 gallons/foot = 1.99 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1046	—	—	22.18	6.47	110	3.27	16	clr	N
1055	2	2	22.96	6.21	86	3.06	47	"	"
1103	1	3	22.81	6.09	72	2.87	20	"	"
1109	.5	3.5	22.74	6.06	70	2.81	13.9	"	"
1115	.5	4	22.71	6.04	70	2.80	8.4	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1115
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW11	SAMPLE ID: 12430 - MW11	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.83	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 17.79	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (30.83 feet − 17.79 feet) X 0.16 gallons/foot = 2.08 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1121	—	—	23.62	6.47	96	2.96	16	clr	N
1126	1	1	22.81	6.06	82	2.81	62	slay		
1133	1	2	22.77	6.01	77	2.77	28	clr		
1139	1	3	22.79	5.99	75	2.74	12			
1145	1	4	22.78	5.99	74	2.71	9.5	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1145
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW12	SAMPLE ID: 12430 - MW12	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.69	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 18.38	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.69 feet − 18.38 feet) X 0.16 gallons/foot = 2.76 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1606	—	—	23.62	6.28	162	2.06	16	clr	Y
1619	2	2	23.11	6.01	143	1.06	40	↓	↓
1623	2	4	23.09	6.06	136	1.07	92	slclw	
1630	1	5	23.01	6.05	130	1.04	23	clr	
1636	.5	5.5	23.04	6.08	128	1.03	14	↓	
1645	.5	6	23.02	6.10	126	1.02	10	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1645

PUMP OR TUBING DEPTH IN WELL (feet): ~33	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW12I	SAMPLE ID: 12430 - MW12I	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 45.63	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 17.01	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (45.63 feet − 17.01 feet) X 0.16 gallons/foot = 4.57 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
1535	—	—	23.27	6.47	192	2.87	16	gr	Y
1541	5	5	23.06	6.07	146	2.61	49	↓	↑
1547	3	8	23.00	6.08	138	2.03	77	sl dy	↑
1556	3	11	22.89	6.01	126	1.92	20	cl	↑
1603	2	13	22.90	5.98	120	1.77	12.6	↓	↑
1610	2	16	22.90	5.96	122	1.75	10.9	↓	↑
1615	2	18	22.90	5.95	122	1.71	16	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1615
PUMP OR TUBING DEPTH IN WELL (feet): ~42	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	Greenville, South Carolina
WELL NO:	12430 - MW14	SAMPLE ID:	12430 - MW14
DATE:	4/22/19		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	25.57	15 feet to 25 feet	11.69	RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (25.57 feet − 11.69 feet) X 0.16 gallons/foot = 2.22 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1409	—	—	23.94	5.81	110	2.11	13	clr	Y
1416	2	2	23.61	5.77	87	1.86	35	↓	↓
1421	1	3	23.49	5.62	85	1.72	21		
1426	1	4	23.44	5.43	82	1.68	13.0		
1433	.5	4.5	23.41	5.41	80	1.65	12.9		
1440	.5	5	23.40	5.40	80	1.62	9.0	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/22/19	1440

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
~24'	PE		

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW14I	SAMPLE ID: 12430 - MW14I	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 67.92	WELL SCREEN INTERVAL DEPTH: 62 feet to 67 feet	STATIC DEPTH TO WATER (feet): 12.13	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (67.92 feet – 12.13 feet) X 0.16 gallons/foot = 8.92 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
1433	—	—	23.96	6.22	126	2.71	10	clr	N
1442	5	5	23.61	5.86	114	2.47	59	slwy	↓
1451	5	10	23.42	5.77	96	2.33	46	clr	↓
1456	3	13	23.36	5.79	84	2.27	32	↓	↓
1503	2	15	23.32	5.75	82	2.25	16.8	↓	↓
1511	2	17	23.29	5.75	80	2.26	12.1	↓	↓
1520	2	19	23.30	5.74	80	2.24	10	↓	↓

DRY

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 65	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW15	SAMPLE ID: 12430 - MW15	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 26.83	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 11.89	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (26.83 feet – 11.89 feet) X 0.16 gallons/foot = 2.39 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1531	—	—	22.11	6.37	182	2.89	6	clr	N
1536	2	2	22.86	6.11	130	2.61	192	cldy	↓
1542	1	3	22.71	6.06	96	2.47	27	clr	↓
1546	1	4	22.70	6.05	84	2.41	13	↓	↓
1550	1	5	22.69	6.06	83	2.40	10	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1550
PUMP OR TUBING DEPTH IN WELL (feet): ~24'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW15±	SAMPLE ID: 12430 - MW15I	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 62.13	WELL SCREEN INTERVAL DEPTH: 57 feet to 62 feet	STATIC DEPTH TO WATER (feet): 12.06	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (62.13 feet – 12.06 feet) x 0.16 gallons/foot = 8.01 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1540	—	—	24.26	6.45	168	2.44	16	clr	N
1544	5	5	23.18	6.22	149	2.71	142	cldy	↓
1556	5	10	23.06	6.11	132	2.62	37	clr	↓
1603	3	13	23.01	6.15	130	2.61	21	clr	↓
1612	2	15	22.96	6.11	129	2.49	16.1	↓	↓
1619	2	17	22.91	6.13	129	2.55	13.2	↓	↓
1625	2	19	22.90	6.10	130	2.58	9.1	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1625
PUMP OR TUBING DEPTH IN WELL (feet): ~60'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW16	SAMPLE ID: 12430 - MW16	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 27.71	WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet	STATIC DEPTH TO WATER (feet): 12.70	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= 27.71 − 12.70 × 0.16 = 2.40

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (uS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1621	—	—	23.96	6.27	82	3.56	19	clr	N
1629	2	2	23.11	6.01	81	2.89	68	slclw	1
1636	1	3	22.81	5.89	79	2.77	14	clr	1
1641	1	4	22.79	5.87	79	2.75	11.2	1	1
1645	.5	4.5	22.77	5.86	79	2.74	8.0	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/22/19	1645

PUMP OR TUBING DEPTH IN WELL (feet): ~25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina
WELL NO: 12430 - MW16I	SAMPLE ID: 12430 - MW16I / DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	65.49	60 feet to 65 feet	12.86	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (65.49 feet − 12.86 feet) X 0.16 gallons/foot = 8.42 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1625	—	—	23.27	6.71	187	3.86	18	clr	N
1636	5	5	23.01	6.42	190	3.06	90	cldy	↓
1641	5	10	22.87	6.33	130	3.01	36	clr	↓
1647	3	13	22.84	6.20	102	2.89	12.1	↓	↓
1655	4	17	22.85	6.19	96	2.87	14.6	↓	↓
1702	3	20	22.84	6.17	94	2.85	15.1	↓	↓
1710	2	22	22.84	6.17	90	2.85	10	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/22/19	1710

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
~64'	PE		

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW17	SAMPLE ID: 12430 - MW17	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 28.82	WELL SCREEN INTERVAL DEPTH: 18 feet to 28 feet	STATIC DEPTH TO WATER (feet): 12.50	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (28.82 feet − 12.50 feet) X 0.16 gallons/foot = 2.6 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1232	—	—	23.27	6.83	162	3.27	16	clr	N
1241	2	2	23.11	6.27	141	2.81	192	cldy	↓
1246	1	3	22.96	6.11	132	2.71	37	clr	↓
1251	1	4	22.91	6.09	127	2.70	16.1	↓	↓
1256	.5	4.5	22.90	6.07	127	2.70	9.2	↓	↓
1305	.5	5	22.91	6.05	125	2.70	10	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1305
PUMP OR TUBING DEPTH IN WELL (feet): 26	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW17I	SAMPLE ID: 12430 - MW17I	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 60.41	WELL SCREEN INTERVAL DEPTH: 55 feet to 60 feet	STATIC DEPTH TO WATER (feet): 11.74	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (60.41 feet − 11.74 feet) X 0.16 gallons/foot = 7.78 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1309	—	—	23.42	6.47	146	3.94	10	clr	N
1321	5	5	23.71	6.32	162	3.61	14	↓	↓
1326	5	10	23.65	6.29	86	2.99	34		
1332	3	13	23.49	6.26	84	2.87	45		
1340	3	16	23.50	6.24	80	2.85	15		
1350	2	18	23.51	6.23	80	2.82	10	↓	↓

DRY
DRY
DRY

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1350
PUMP OR TUBING DEPTH IN WELL (feet): ~60'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina
WELL NO: 12430 - MW18	SAMPLE ID: 12430 -
DATE: 4/22/19	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 29.30	WELL SCREEN INTERVAL DEPTH: 19 feet to 29 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)		pH (su)		COND. (µS)		DO (mg/L)		TURBIDITY (NTU)		COLOR	ODOR
	—	—												

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B		—
—	3	AG	40 ml	HCL	—	—	8011		—

REMARKS:
Not Sampled. Cannot w/ Construction materials

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430		SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW18I	SAMPLE ID: 12430 -		DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 65.47	WELL SCREEN INTERVAL DEPTH: 60 feet to 65 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (65.47 feet − feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)		pH (su)		COND. (µS)		DO (mg/L)		TURB IDITY (NTU)		COLOR	ODOR
	—	—												

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B		—
—	3	AG	40 ml	HCL	—	—	8011		—

REMARKS:
Not Sampled: Covered w/ Construction Materials

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina
WELL NO: 12430 - MW19	SAMPLE ID: 12430 - MW19
DATE: 4/22/19	

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 39.69	WELL SCREEN INTERVAL DEPTH: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 20.01	PURGE PUMP TYPE OR BAILER: RDP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY

= (39.69 feet − 20.01 feet) X 0.16 gallons/foot = 3.14 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
0952	—	—	23.27	6.92	162	2.99	14	Clr	N
1003	2	2	22.96	6.71	148	2.71	95	Sldy	
1011	1	3	22.81	6.43	135	2.65	30	Cld	
1021	1	4	22.79	6.42	126	2.47	16.1		
1027	1	5	22.77	6.40	124	2.45	11.2		
1035	.5	5.5	22.70	6.40	120	2.43	7.4	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1035
PUMP OR TUBING DEPTH IN WELL (feet): ~37'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW19I	SAMPLE ID: 12430 - MW19I	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 70.68	WELL SCREEN INTERVAL DEPTH: 65 feet to 70 feet	STATIC DEPTH TO WATER (feet): 20.24	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH 70.68 feet − STATIC DEPTH TO WATER 20.24 feet) X WELL CAPACITY 0.16 gallons/foot = 8.07 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
0920	—	—	23.69	6.87	172	2.99	16	clr	N
0931	5	5	23.61	6.42	164	2.61	297	cldy	↓
0936	5	10	23.02	6.31	137	2.43	105	cldy	
0943	3	13	22.89	6.32	135	2.41	37	clr	
0952	2	15	22.86	6.30	132	2.39	21	clr	
1000	2	17	22.94	6.29	134	2.39	16.1	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1000
PUMP OR TUBING DEPTH IN WELL (feet): ~66	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430-MW20	SAMPLE ID: 12430-MW20	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 40.87	WELL SCREEN INTERVAL DEPTH: 30 feet to 40 feet	STATIC DEPTH TO WATER (feet): 22.19	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (40.87 feet − 22.19 feet) X 0.16 gallons/foot = 2.98 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
0905	—	—	23.27	6.34	138	2.61	10	clr	Y
0910	2	2	23.01	5.87	121	1.87	142	cldy	↓
0919	1	3	24.95	5.61	125	1.65	26	clr	
0926	1	4	24.91	5.55	101	1.63	14.8	↓	
0932	1	5	24.90	5.56	100	1.62	13.2		
0940	1	6	24.90	5.55	100	1.60	6.8	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 0940
PUMP OR TUBING DEPTH IN WELL (feet): ~38	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430		SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430-MW21	SAMPLE ID: 12430-MW2		DATE: 4122119

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.14	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 18.89	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.14 feet − 18.89 feet) X 0.16 gallons/foot = 2.60 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1516	—	—	23.61	6.23	123	2.14	12	clr	Y
1522	2	2	23.22	5.99	62	2.03	139	cldy	|
1528	1	3	23.11	5.61	56	1.89	76	slcldy	|
1536	1	4	23.09	5.58	54	1.77	21	clr	|
1540	1	5	23.06	5.57	55	1.79	10	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1540

PUMP OR TUBING DEPTH IN WELL (feet): ~33'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	Greenville, South Carolina
WELL NO:	12430 - MW22	SAMPLE ID:	12430 - MW22
DATE:	4/22/19		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	35.06	DEPTH: 25 feet to 35 feet	18.69	RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.06 feet – 18.69 feet) X 0.16 gallons/foot = 2.61 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1736	—	—	23.61	6.41	105	2.87	15	clr	N
1743	2	2	23.49	6.27	86	2.61	326	cm	↓
1750	1	3	23.22	6.11	72	2.49	105	clr	↓
1756	1	4	23.25	6.09	70	2.47	20	clr	↓
1805	1	5	23.25	6.07	70	2.46	10	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1805
PUMP OR TUBING DEPTH IN WELL (feet): ~35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME:	Westside Quick Stop - UST 12430	SITE LOCATION:	Greenville, South Carolina
WELL NO:	12430 - MW22I	SAMPLE ID:	12430 - MW22I
DATE:	4/22/19		

PURGING DATA

WELL DIAMETER (inches):	Total Well Depth (feet):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	49.72		18.61	ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (49.72 feet − 18.61 feet) X 0.16 gallons/foot = 4.97 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1705	—	—	23.61	6.82	162	2.47	10	clr	Y
1710	5	5	22.11	6.47	137	2.01	85	slty	↓
1719	4	9	22.06	6.41	128	1.86	27	clr	
1726	3	12	22.09	6.39	121	1.81	12.3	↓	
1732	2	14	22.10	6.40	120	1.79	11.1		
1740	2	16	22.10	6.40	120	1.77	9.5	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1740

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
~45'	PE		

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	ESP	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW23	SAMPLE ID: 12430 - MW23	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 39.87	WELL SCREEN INTERVAL DEPTH: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 20.04	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (39.87 feet − 20.04 feet) X 0.16 gallons/foot = 3.17 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1120	—	—	23.21	6.12	120	1.62	20	clr	N
1129	2	2	22.87	5.87	87	1.49	60	slay	1
1136	2	4	22.80	5.77	85	1.32	21	clr	1
1143	1	5	22.79	5.75	80	1.36	16.3	clr	1
1150	1	6	22.79	5.73	86	1.34	9.0	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1150
PUMP OR TUBING DEPTH IN WELL (feet): ~38	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	〃	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430		SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW23I	SAMPLE ID: 12430 - MW23I		DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 61.69	WELL SCREEN INTERVAL DEPTH: 56 feet to 61 feet	STATIC DEPTH TO WATER (feet): 20.20	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (61.69 feet − 20.20 feet) X 0.16 gallons/foot = 6.63 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1056	—	—	23.61	6.27	146	2.81	49	Clr	Y
1105	5	5	23.22	6.01	92	1.43	27	1	1
1112	5	10	23.01	6.00	96	1.22	16	1	1
1118	2	12	22.89	6.00	91	1.19	12.8	1	1
1125	2	14	22.93	6.00	90	1.16	8.4	1	1

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT)	SAMPLER(S) SIGNATURE(S):	SAMPLING DATE:	SAMPLING TIME:
Jimmy Slagh / Tyler Kassing	JS / TK	4/23/19	1125

PUMP OR TUBING DEPTH IN WELL (feet): ~58	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:

DUPLICATE COLLECTED: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	ESP	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW24	SAMPLE ID: 12430 -	DATE:

PURGING DATA

18.40/20.12

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.25	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.25 feet – feet) X gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
	—	—							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (ml)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B		—
—	3	AG	40 ml	HCL	—	—	8011		—

REMARKS:
Not Sampled. 1.72 ft FP

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW2S	SAMPLE ID: 12430 - MW2S	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 38.20	WELL SCREEN INTERVAL DEPTH: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 19.20	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (38.20 feet − 19.20 feet) X 0.16 gallons/foot = 3.04 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
1235	—	—	23.27	6.43	126	2.32	15	clr	Y
1246	2	2	22.11	6.29	111	1.61	100	cly	↓
1253	2	4	22.09	6.17	164	1.47	37	clr	
1300	1	5	22.06	6.15	162	1.44	18.1	clr	Dry
1306	1	6	22.05	6.11	101	1.42	10.6	clr	
1310	.5	6.5	22.05	6.10	100	1.44	8.4	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1310
PUMP OR TUBING DEPTH IN WELL (feet): ~36	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW26	SAMPLE ID: 12430 - MW26	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 36.45	WELL SCREEN INTERVAL DEPTH: 26 feet to 36 feet	STATIC DEPTH TO WATER (feet): 18.84	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (36.45 feet − 18.84 feet) X 0.16 gallons/foot = 2.81 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
1819	—	—	22.16	6.93	112	2.80	12	clr	Y
1825	1	1	21.87	6.43	87	2.32	101	cldy	↓
1831	1	2	21.77	6.36	62	1.87	32	clr	
1836	1	3	21.25	6.21	60	1.61	14.9		
1842	1	4	21.75	6.20	60	1.60	12.6		Dry
1850	.5	4.5	21.74	6.18	66	1.60	10	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1850
PUMP OR TUBING DEPTH IN WELL (feet): ~35'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW26I	SAMPLE ID: 12430 - MW26I	DATE: 4122119

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 55.11	WELL SCREEN INTERVAL DEPTH: 50 feet to 55 feet	STATIC DEPTH TO WATER (feet): 19.05	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (55.11 feet − 19.05 feet) X 0.16 gallons/foot = 5.76 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1803	—	—	23.26	6.32	126	2.61	12	Clr	N
1812	5	5	23.09	6.21	96	2.11	102	Clay	↓
1819	3	8	22.81	6.20	93	2.06	35	Clr	↓
1825	2	10	22.79	6.19	90	2.01	29	↓	↓
1835	2	12	22.78	6.18	90	2.00	10	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1835
PUMP OR TUBING DEPTH IN WELL (feet): ~53	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	ESP	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 -MW27	SAMPLE ID: 12430 - MW27	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 34.70	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 18.45	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (34.70 feet – 18.45 feet) X 0.16 gallons/foot = 2.60 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
0755	—	—	23.27	6.47	102	2.37	12	clr	N
0805	2	2	23.11	6.32	86	2.21	46	clr		
0813	1	3	22.99	6.27	68	2.19	78	slcm		
0821	1	4	22.97	6.25	66	2.18	12.1	clr		
0830	1	5	22.95	6.26	64	2.17	9.2	clr	↓	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 0830
PUMP OR TUBING DEPTH IN WELL (feet): ~32'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MW27I	SAMPLE ID: 12430 - MW27I	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 65.41	WELL SCREEN INTERVAL DEPTH: 60 feet to 65 feet	STATIC DEPTH TO WATER (feet): 18.86	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (65.41 feet – 18.86 feet) X 0.16 gallons/foot = 7.44 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
0837	—	—	23.84	6.81	136	3.24	14.3	clr	N
0846	8	8	22.96	6.23	96	2.99	23	↑	↑
0855	3	11	22.81	6.11	81	2.77	40		
0903	3	14	22.78	6.06	79	2.75	20		
0910	4	18	22.79	6.07	78	2.74	10	↓	↓ DRY

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 0910
PUMP OR TUBING DEPTH IN WELL (feet): ~63	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESO	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina
WELL NO: 12430 - MW28	SAMPLE ID: 12430 - MW28	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 35.91	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 18.00	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (35.91 feet – 18.00 feet) X 0.16 gallons/foot = 286 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1842	—	—	24.11	6.82	136	2.81	14	clr	N
1856	2	2	23.81	6.11	98	2.77	82	sl dry	↓
1903	2	4	23.67	6.01	84	2.71	37	clr	↓
1912	1	5	23.45	5.98	81	2.70	12.1	↓	↓
1918	1	6	23.42	5.97	80	2.68	16.8	↓	↓
1925	15	6.5	23.41	5.95	80	2.67	9.1	↓	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/22/19	SAMPLING TIME: 1925
PUMP OR TUBING DEPTH IN WELL (feet): ~33'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	RFPP	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - RW01	SAMPLE ID: 12430 -	DATE: 4/22/19

PURGING DATA

18.00' 20.35

WELL DIAMETER (inches): 4	Total Well Depth (feet): 40.69	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
= (40.69 feet – feet) X 0.16 gallons/foot = gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
	—	—							

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE:	SAMPLING TIME:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B		—
—	3	AG	40 ml	HCL	—	—	8011		—

REMARKS:
Not Sampled 2.35' FP1

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - RW02	SAMPLE ID: 12430 - RW02	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 4	Total Well Depth (feet): 38.08	WELL SCREEN INTERVAL DEPTH: 17 feet to 37 feet	STATIC DEPTH TO WATER (feet): 18.18	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (38.08 feet − 18.18 feet) X 0.65 gallons/foot = 12.93 gallons

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1335	—	—	24.67	6.28	163	3.16	36	clr	Y
1349	10	10	23.81	5.89	148	2.47	492	clr	1
1402	8	18	23.67	5.81	130	1.86	106	clr	1
1413	5	23	23.59	5.77	126	1.77	28	clr	1
1426	3	26	23.57	5.75	124	1.75	12.1	clr	1
1440	4	30	23.55	5.74	122	1.72	9.0	clr	↓

DRY

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1440
PUMP OR TUBING DEPTH IN WELL (feet): ~36	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: (Y) N			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L or ± 10% **Turbidity:** ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - RW03	SAMPLE ID: 12430 - RW03	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 4	Total Well Depth (feet): 40.00	WELL SCREEN INTERVAL DEPTH: 20 feet to 40 feet	STATIC DEPTH TO WATER (feet): 17.70	PURGE PUMP TYPE OR BAILER: ESP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (40.00 feet − 17.70 feet) X 0.65 gallons/foot = 14.49 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1406	—	—	24.16	6.12	147	2.61	15	clr	Y
1421	10	10	23.81	5.87	132	1.45	46	clr	↓
1430	5	15	23.62	5.61	120	1.37	71	slclr	
1440	3	18	23.07	5.63	118	1.32	12.9	clr	
1453	4	22	23.11	5.60	116	1.30	14.6	clr	DRY
1509	3	25	23.14	5.60	114	1.29	14.1	clr	
1520	4	29	23.15	5.60	112	1.28	10	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1520
PUMP OR TUBING DEPTH IN WELL (feet): ~36	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	ESP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MwX	SAMPLE ID: 12430 - MW0X	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 30.27	WELL SCREEN INTERVAL DEPTH 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 19.11	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (30.27 feet − 19.11 feet) X 0.16 gallons/foot = 1.78 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURB IDITY (NTU)	COLOR	ODOR
1302	—	—	23.16	6.21	162	2.81	16	clr	Y
1309	2	2	22.99	6.07	101	2.61	96	slty	↓
1314	1	3	22.84	5.89	89	2.42	25	clr	↓
1326	1	4	22.80	5.87	86	2.40	16.1	clr	↓
1332	.5	4.5	22.79	5.84	84	2.40	12.8	clr	↓
1340	.5	5	22.80	5.83	80	2.40	7.1	clr	↓

Dry

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1340
PUMP OR TUBING DEPTH IN WELL (feet): ~28'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	"	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop - UST 12430	SITE LOCATION: Greenville, South Carolina	
WELL NO: 12430 - MWXR	SAMPLE ID: 12430 - MW0XR	DATE: 4/22/19

PURGING DATA

WELL DIAMETER (inches): 2	Total Well Depth (feet): 38.25	WELL SCREEN INTERVAL DEPTH: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 19.20	PURGE PUMP TYPE OR BAILER: RFPP

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH − STATIC DEPTH TO WATER) X WELL CAPACITY
= (38.25 feet − 19.20 feet) X 0.16 gallons/foot = 3.04 gallons

TIME	VOLUME PURGED (gallons)	CUMUL VOLUME PURGED (gallons)	TEMP. (°C)	pH (su)	COND. (µS)	DO (mg/L)	TURBIDITY (NTU)	COLOR	ODOR
1332	—	—	24.21	6.97	146	2.86	12	CLR	N
1341	2	2	23.86	6.01	121	2.71	60		
1347	1	3	23.71	5.89	103	2.68	30		
1356	1	4	23.62	5.87	101	2.85	21		
1403	1	5	23.60	5.81	106	2.61	16.8		
1410	1	6	23.60	5.80	100	2.61	10		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88

SAMPLING DATA

SAMPLED BY (PRINT): Jimmy Slagh / Tyler Kassing	SAMPLER(S) SIGNATURE(S): JS / TK	SAMPLING DATE: 4/23/19	SAMPLING TIME: 1410
PUMP OR TUBING DEPTH IN WELL (feet): ~36'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE:
DUPLICATE COLLECTED: Y (N)			

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (ml/min)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
—	3	AG	40 ml	HCL	—	—	8260B	RFPP	—
—	3	AG	40 ml	HCL	—	—	8011	↓	—

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

STABILIZATION CRITERIA

pH: ± 0.2 units Temperature: ± 0.2 °C Specific Conductance: ± 5% Dissolved Oxygen: ± 0.2 mg/L or ± 10% Turbidity: ≤ 10 NTU or ± 10%

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX C

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

May 03, 2019

Trever Slack
Petra-Tech Environmental, LLC
2435 E. North Street
Suite 1108-202
Greenville, SC 29615

RE: Project: Westside Quick Stop
Pace Project No.: 92426939

Dear Trever Slack:
Enclosed are the analytical results for sample(s) received by the laboratory on April 25, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
(704)875-9092
Project Manager

Enclosures

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: Westside Quick Stop
Pace Project No.: 92426939

Charlotte Certification IDs

9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

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Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92426939001	MW-2	Water	04/23/19 17:10	04/25/19 12:10
92426939002	MW-3	Water	04/23/19 12:20	04/25/19 12:10
92426939003	MW-4	Water	04/23/19 19:50	04/25/19 12:10
92426939004	MW-4I	Water	04/23/19 19:25	04/25/19 12:10
92426939005	MW-5	Water	04/22/19 17:45	04/25/19 12:10
92426939006	MW-6	Water	04/22/19 14:15	04/25/19 12:10
92426939007	MW-7	Water	04/22/19 19:50	04/25/19 12:10
92426939008	MW-8	Water	04/22/19 18:50	04/25/19 12:10
92426939009	MW-9	Water	04/22/19 18:15	04/25/19 12:10
92426939010	MW-10	Water	04/22/19 11:15	04/25/19 12:10
92426939011	MW-11	Water	04/22/19 11:45	04/25/19 12:10
92426939012	MW-12	Water	04/23/19 16:45	04/25/19 12:10
92426939013	MW-12I	Water	04/23/19 16:15	04/25/19 12:10
92426939014	MW-14	Water	04/22/19 14:40	04/25/19 12:10
92426939015	MW-14I	Water	04/22/19 15:20	04/25/19 12:10
92426939016	MW-15	Water	04/22/19 15:50	04/25/19 12:10
92426939017	MW-16	Water	04/22/19 16:45	04/25/19 12:10
92426939018	MW-16I	Water	04/22/19 17:10	04/25/19 12:10
92426939019	MW-17	Water	04/22/19 13:05	04/25/19 12:10
92426939020	MW-17I	Water	04/22/19 13:50	04/25/19 12:10
92426939021	MW-19	Water	04/23/19 10:35	04/25/19 12:10
92426939022	MW-19I	Water	04/23/19 10:00	04/25/19 12:10
92426939023	MW-20	Water	04/23/19 09:40	04/25/19 12:10
92426939024	MW-21	Water	04/23/19 15:40	04/25/19 12:10
92426939025	MW-22	Water	04/23/19 18:05	04/25/19 12:10
92426939026	MW-22I	Water	04/23/19 17:40	04/25/19 12:10
92426939027	MW-23	Water	04/23/19 11:50	04/25/19 12:10
92426939028	MW-23I	Water	04/23/19 11:25	04/25/19 12:10
92426939029	MW-25	Water	04/23/19 13:10	04/25/19 12:10
92426939030	MW-26	Water	04/23/19 18:50	04/25/19 12:10
92426939031	MW-26I	Water	04/23/19 18:35	04/25/19 12:10
92426939032	MW-27	Water	04/23/19 08:30	04/25/19 12:10
92426939033	MW-27I	Water	04/23/19 09:10	04/25/19 12:10
92426939034	MW-28	Water	04/22/19 19:25	04/25/19 12:10
92426939035	MW-X	Water	04/23/19 13:40	04/25/19 12:10
92426939036	MW-XR	Water	04/23/19 14:10	04/25/19 12:10
92426939037	RW-02	Water	04/23/19 14:40	04/25/19 12:10

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92426939038	**RW-03**	Water	04/23/19 15:20	04/25/19 12:10
92426939039	**DUP-A**	Water	04/23/19 09:45	04/25/19 12:10
92426939040	**DUP-B**	Water	04/23/19 14:45	04/25/19 12:10
92426939041	**FB-01**	Water	04/22/19 12:30	04/25/19 12:10
92426939042	**FB-02**	Water	04/23/19 14:25	04/25/19 12:10
92426939043	**TB-01**	Water	04/23/19 00:00	04/25/19 12:10
92426939044	**TB-02**	Water	04/23/19 00:00	04/25/19 12:10
92426939045	**TB-03**	Water	04/23/19 00:00	04/25/19 12:10
92426939046	**MW-15I**	Water	04/22/19 16:25	04/25/19 12:10

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SAMPLE ANALYTE COUNT

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92426939001	MW-2	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939002	MW-3	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939003	MW-4	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939004	MW-4I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939005	MW-5	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939006	MW-6	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939007	MW-7	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939008	MW-8	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939009	MW-9	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939010	MW-10	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939011	MW-11	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939012	MW-12	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939013	MW-12I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939014	MW-14	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939015	MW-14I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939016	MW-15	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939017	MW-16	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939018	MW-16I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939019	MW-17	EPA 8011	BAJ	2	PASI-C

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SAMPLE ANALYTE COUNT

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260B	DLK	18	PASI-C
92426939020	MW-17I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939021	MW-19	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939022	MW-19I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939023	MW-20	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939024	MW-21	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939025	MW-22	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939026	MW-22I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939027	MW-23	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939028	MW-23I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939029	MW-25	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939030	MW-26	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939031	MW-26I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939032	MW-27	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	DLK	18	PASI-C
92426939033	MW-27I	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939034	MW-28	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939035	MW-X	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939036	MW-XR	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939037	RW-02	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C

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SAMPLE ANALYTE COUNT

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92426939038	**RW-03**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939039	**DUP-A**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	SAS	18	PASI-C
92426939040	**DUP-B**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939041	**FB-01**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939042	**FB-02**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C
92426939043	**TB-01**	EPA 8260B	NSCQ	18	PASI-C
92426939044	**TB-02**	EPA 8260B	NSCQ	18	PASI-C
92426939045	**TB-03**	EPA 8260B	NSCQ	18	PASI-C
92426939046	**MW-15I**	EPA 8011	BAJ	2	PASI-C
		EPA 8260B	NSCQ	18	PASI-C

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SUMMARY OF DETECTION

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92426939001	**MW-2**					
EPA 8260B	tert-Amyl Alcohol	597	ug/L	500	05/01/19 06:50	
EPA 8260B	Benzene	577	ug/L	25.0	05/01/19 06:50	
EPA 8260B	Ethylbenzene	37.3	ug/L	25.0	05/01/19 06:50	
EPA 8260B	Naphthalene	11.9J	ug/L	25.0	05/01/19 06:50	
EPA 8260B	Toluene	82.3	ug/L	25.0	05/01/19 06:50	
EPA 8260B	Xylene (Total)	609	ug/L	25.0	05/01/19 06:50	
92426939003	**MW-4**					
EPA 8260B	Benzene	160	ug/L	10.0	05/01/19 05:41	
EPA 8260B	tert-Butyl Alcohol	277	ug/L	200	05/01/19 05:41	L1
EPA 8260B	Diisopropyl ether	45.1	ug/L	10.0	05/01/19 05:41	
EPA 8260B	Toluene	24.0	ug/L	10.0	05/01/19 05:41	
EPA 8260B	Xylene (Total)	224	ug/L	10.0	05/01/19 05:41	
92426939004	**MW-4I**					
EPA 8260B	Toluene	3.2J	ug/L	5.0	05/01/19 00:58	
92426939012	**MW-12**					
EPA 8260B	tert-Amyl Alcohol	4450	ug/L	2000	05/01/19 06:19	
EPA 8260B	Benzene	1820	ug/L	100	05/01/19 06:19	
EPA 8260B	Ethylbenzene	410	ug/L	100	05/01/19 06:19	
EPA 8260B	Toluene	3130	ug/L	100	05/01/19 06:19	
EPA 8260B	Xylene (Total)	1600	ug/L	100	05/01/19 06:19	
92426939013	**MW-12I**					
EPA 8260B	tert-Amyl Alcohol	4640	ug/L	2000	05/01/19 06:37	
EPA 8260B	Benzene	2460	ug/L	100	05/01/19 06:37	
EPA 8260B	Diisopropyl ether	121	ug/L	100	05/01/19 06:37	
EPA 8260B	Ethylbenzene	338	ug/L	100	05/01/19 06:37	
EPA 8260B	Naphthalene	71.1J	ug/L	100	05/01/19 06:37	
EPA 8260B	Toluene	3070	ug/L	100	05/01/19 06:37	
EPA 8260B	Xylene (Total)	1770	ug/L	100	05/01/19 06:37	
92426939014	**MW-14**					
EPA 8260B	tert-Amyl Alcohol	3150	ug/L	400	05/01/19 06:55	
EPA 8260B	Benzene	575	ug/L	20.0	05/01/19 06:55	
EPA 8260B	Ethylbenzene	56.1	ug/L	20.0	05/01/19 06:55	
EPA 8260B	Toluene	300	ug/L	20.0	05/01/19 06:55	
EPA 8260B	Xylene (Total)	614	ug/L	20.0	05/01/19 06:55	
92426939022	**MW-19I**					
EPA 8260B	Methyl-tert-butyl ether	3.2J	ug/L	5.0	05/01/19 23:07	
92426939023	**MW-20**					
EPA 8260B	tert-Amyl Alcohol	7910	ug/L	1250	05/01/19 07:49	
EPA 8260B	Benzene	1830	ug/L	62.5	05/01/19 07:49	
EPA 8260B	Diisopropyl ether	170	ug/L	62.5	05/01/19 07:49	
EPA 8260B	Ethylbenzene	231	ug/L	62.5	05/01/19 07:49	
EPA 8260B	Toluene	63.3	ug/L	62.5	05/01/19 07:49	
EPA 8260B	Xylene (Total)	395	ug/L	62.5	05/01/19 07:49	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92426939024	**MW-21**					
EPA 8260B	tert-Amyl Alcohol	5590	ug/L	2500	05/01/19 08:07	
EPA 8260B	Benzene	3540	ug/L	125	05/01/19 08:07	
EPA 8260B	Diisopropyl ether	264	ug/L	125	05/01/19 08:07	
EPA 8260B	Ethylbenzene	230	ug/L	125	05/01/19 08:07	
EPA 8260B	Methyl-tert-butyl ether	560	ug/L	125	05/01/19 08:07	
EPA 8260B	Naphthalene	288	ug/L	125	05/01/19 08:07	
EPA 8260B	Toluene	779	ug/L	125	05/01/19 08:07	
EPA 8260B	Xylene (Total)	2070	ug/L	125	05/01/19 08:07	
92426939025	**MW-22**					
EPA 8011	1,2-Dibromoethane (EDB)	0.074	ug/L	0.019	05/02/19 11:15	
92426939026	**MW-22I**					
EPA 8260B	tert-Amyl Alcohol	79.8J	ug/L	100	05/01/19 03:56	
EPA 8260B	Benzene	37.6	ug/L	5.0	05/01/19 03:56	
92426939027	**MW-23**					
EPA 8011	1,2-Dibromoethane (EDB)	0.12	ug/L	0.019	05/02/19 11:33	
EPA 8260B	tert-Amyl Alcohol	72.8J	ug/L	100	05/01/19 04:14	
EPA 8260B	Benzene	2.8J	ug/L	5.0	05/01/19 04:14	
EPA 8260B	1,2-Dichloroethane	3.0J	ug/L	5.0	05/01/19 04:14	
EPA 8260B	Diisopropyl ether	4.5J	ug/L	5.0	05/01/19 04:14	
EPA 8260B	Methyl-tert-butyl ether	5.7	ug/L	5.0	05/01/19 04:14	
92426939028	**MW-23I**					
EPA 8011	1,2-Dibromoethane (EDB)	0.082	ug/L	0.019	05/02/19 11:52	
EPA 8260B	tert-Amyl Alcohol	5760	ug/L	2000	05/02/19 00:51	
EPA 8260B	Benzene	2260	ug/L	100	05/02/19 00:51	
EPA 8260B	Diisopropyl ether	224	ug/L	100	05/02/19 00:51	
EPA 8260B	Methyl-tert-butyl ether	163	ug/L	100	05/02/19 00:51	
EPA 8260B	Naphthalene	66.7J	ug/L	100	05/02/19 00:51	
92426939029	**MW-25**					
EPA 8260B	tert-Amyl Alcohol	181J	ug/L	200	05/01/19 23:59	
EPA 8260B	Benzene	215	ug/L	10.0	05/01/19 23:59	
EPA 8260B	Methyl-tert-butyl ether	21.5	ug/L	10.0	05/01/19 23:59	
EPA 8260B	Xylene (Total)	52.3	ug/L	10.0	05/01/19 23:59	
92426939030	**MW-26**					
EPA 8011	1,2-Dibromoethane (EDB)	0.045	ug/L	0.019	05/02/19 12:12	
EPA 8260B	Benzene	39.0	ug/L	5.0	05/01/19 04:50	
EPA 8260B	Diisopropyl ether	4.7J	ug/L	5.0	05/01/19 04:50	
EPA 8260B	Xylene (Total)	33.9	ug/L	5.0	05/01/19 04:50	
92426939031	**MW-26I**					
EPA 8260B	Benzene	1.8J	ug/L	5.0	05/01/19 05:08	
EPA 8260B	Toluene	7.1	ug/L	5.0	05/01/19 05:08	
92426939035	**MW-X**					
EPA 8011	1,2-Dibromoethane (EDB)	1.5	ug/L	0.040	05/02/19 12:30	

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SUMMARY OF DETECTION

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92426939035	**MW-X**					
EPA 8260B	tert-Amyl Alcohol	6000	ug/L	4000	05/02/19 11:37	
EPA 8260B	Benzene	1780	ug/L	200	05/02/19 11:37	
EPA 8260B	Ethylbenzene	364	ug/L	200	05/02/19 11:37	
EPA 8260B	Methyl-tert-butyl ether	1480	ug/L	200	05/02/19 11:37	
EPA 8260B	Toluene	4760	ug/L	200	05/02/19 11:37	
EPA 8260B	Xylene (Total)	2550	ug/L	200	05/02/19 11:37	
92426939036	**MW-XR**					
EPA 8011	1,2-Dibromoethane (EDB)	0.21	ug/L	0.020	05/02/19 12:49	
EPA 8260B	Methyl-tert-butyl ether	4.9J	ug/L	5.0	05/01/19 03:35	
92426939037	**RW-02**					
EPA 8011	1,2-Dibromoethane (EDB)	0.059	ug/L	0.020	05/02/19 13:09	
EPA 8260B	Benzene	1470	ug/L	250	05/02/19 01:43	
EPA 8260B	Ethylbenzene	889	ug/L	250	05/02/19 01:43	
EPA 8260B	Naphthalene	1070	ug/L	250	05/02/19 01:43	
EPA 8260B	Toluene	7790	ug/L	250	05/02/19 01:43	
EPA 8260B	Xylene (Total)	10500	ug/L	250	05/02/19 01:43	
92426939038	**RW-03**					
EPA 8260B	tert-Amyl Alcohol	713	ug/L	200	05/01/19 23:41	
EPA 8260B	Benzene	108	ug/L	10.0	05/01/19 23:41	
EPA 8260B	Diisopropyl ether	14.3	ug/L	10.0	05/01/19 23:41	
EPA 8260B	Ethylbenzene	42.2	ug/L	10.0	05/01/19 23:41	
EPA 8260B	Methyl-tert-butyl ether	23.7	ug/L	10.0	05/01/19 23:41	
EPA 8260B	Naphthalene	13.2	ug/L	10.0	05/01/19 23:41	
EPA 8260B	Toluene	139	ug/L	10.0	05/01/19 23:41	
EPA 8260B	Xylene (Total)	485	ug/L	10.0	05/01/19 23:41	
92426939039	**DUP-A**					
EPA 8260B	tert-Amyl Alcohol	8490	ug/L	1250	05/02/19 00:33	
EPA 8260B	Benzene	1610	ug/L	62.5	05/02/19 00:33	
EPA 8260B	Diisopropyl ether	157	ug/L	62.5	05/02/19 00:33	
EPA 8260B	Ethylbenzene	209	ug/L	62.5	05/02/19 00:33	
EPA 8260B	Naphthalene	26.6J	ug/L	62.5	05/02/19 00:33	
EPA 8260B	Toluene	62.6	ug/L	62.5	05/02/19 00:33	
EPA 8260B	Xylene (Total)	372	ug/L	62.5	05/02/19 00:33	
92426939040	**DUP-B**					
EPA 8011	1,2-Dibromoethane (EDB)	0.048	ug/L	0.019	05/02/19 13:28	
EPA 8260B	Benzene	1230	ug/L	500	05/02/19 11:55	
EPA 8260B	Ethylbenzene	518	ug/L	500	05/02/19 11:55	
EPA 8260B	Naphthalene	535	ug/L	500	05/02/19 11:55	
EPA 8260B	Toluene	6530	ug/L	500	05/02/19 11:55	
EPA 8260B	Xylene (Total)	7320	ug/L	500	05/02/19 11:55	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-2 **Lab ID: 92426939001** Collected: 04/23/19 17:10 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/30/19 07:22	04/30/19 19:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	124	%	60-140		1	04/30/19 07:22	04/30/19 19:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**597**	ug/L	500	328	5		05/01/19 06:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	50.0	15.2	5		05/01/19 06:50	994-05-8	
Benzene	**577**	ug/L	25.0	8.7	5		05/01/19 06:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	500	270	5		05/01/19 06:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	500	455	5		05/01/19 06:50	75-65-0	L1
tert-Butyl Formate	ND	ug/L	250	120	5		05/01/19 06:50	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	25.0	10.3	5		05/01/19 06:50	107-06-2	
Diisopropyl ether	ND	ug/L	25.0	17.4	5		05/01/19 06:50	108-20-3	
Ethanol	ND	ug/L	1000	720	5		05/01/19 06:50	64-17-5	
Ethylbenzene	**37.3**	ug/L	25.0	9.2	5		05/01/19 06:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	50.0	42.3	5		05/01/19 06:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	25.0	15.5	5		05/01/19 06:50	1634-04-4	
Naphthalene	**11.9J**	ug/L	25.0	10.4	5		05/01/19 06:50	91-20-3	
Toluene	**82.3**	ug/L	25.0	10.0	5		05/01/19 06:50	108-88-3	
Xylene (Total)	**609**	ug/L	25.0	25.0	5		05/01/19 06:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		05/01/19 06:50	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		5		05/01/19 06:50	17060-07-0	
Toluene-d8 (S)	100	%	70-130		5		05/01/19 06:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-3 **Lab ID: 92426939002** Collected: 04/23/19 12:20 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/30/19 07:22	04/30/19 20:16	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/30/19 07:22	04/30/19 20:16	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:19	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:19	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:19	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:19	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:19	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:19	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:19	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:19	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:19	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/01/19 01:19	460-00-4	
1,2-Dichloroethane-d4 (S)	95	%	70-130		1		05/01/19 01:19	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/01/19 01:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-4 **Lab ID: 92426939003** Collected: 04/23/19 19:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/30/19 07:22	04/30/19 20:35	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	118	%	60-140		1	04/30/19 07:22	04/30/19 20:35	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	200	131	2		05/01/19 05:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		05/01/19 05:41	994-05-8	
Benzene	**160**	ug/L	10.0	3.5	2		05/01/19 05:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		05/01/19 05:41	624-95-3	
tert-Butyl Alcohol	**277**	ug/L	200	182	2		05/01/19 05:41	75-65-0	L1
tert-Butyl Formate	ND	ug/L	100	48.2	2		05/01/19 05:41	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		05/01/19 05:41	107-06-2	
Diisopropyl ether	**45.1**	ug/L	10.0	7.0	2		05/01/19 05:41	108-20-3	
Ethanol	ND	ug/L	400	288	2		05/01/19 05:41	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.7	2		05/01/19 05:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		05/01/19 05:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		05/01/19 05:41	1634-04-4	
Naphthalene	ND	ug/L	10.0	4.2	2		05/01/19 05:41	91-20-3	
Toluene	**24.0**	ug/L	10.0	4.0	2		05/01/19 05:41	108-88-3	
Xylene (Total)	**224**	ug/L	10.0	10.0	2		05/01/19 05:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		05/01/19 05:41	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		2		05/01/19 05:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		2		05/01/19 05:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-4I **Lab ID: 92426939004** Collected: 04/23/19 19:25 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	04/30/19 07:22	04/30/19 20:53	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	04/30/19 07:22	04/30/19 20:53	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 00:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 00:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 00:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 00:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 00:58	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 00:58	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 00:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 00:58	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 00:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 00:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 00:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 00:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 00:58	91-20-3	
Toluene	**3.2J**	ug/L	5.0	2.0	1		05/01/19 00:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 00:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 00:58	460-00-4	
1,2-Dichloroethane-d4 (S)	96	%	70-130		1		05/01/19 00:58	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		05/01/19 00:58	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-5 **Lab ID: 92426939005** Collected: 04/22/19 17:45 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 03:46	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/01/19 08:50	05/02/19 03:46	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/30/19 18:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/30/19 18:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/19 18:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/30/19 18:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/30/19 18:44	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/30/19 18:44	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/30/19 18:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/30/19 18:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/30/19 18:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/30/19 18:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/30/19 18:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/30/19 18:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/30/19 18:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/30/19 18:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/30/19 18:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		04/30/19 18:44	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/19 18:44	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		04/30/19 18:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-6 **Lab ID: 92426939006** Collected: 04/22/19 14:15 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.021	0.012	1	05/01/19 08:50	05/02/19 04:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/02/19 04:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/30/19 19:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/30/19 19:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/19 19:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/30/19 19:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/30/19 19:02	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/30/19 19:02	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/30/19 19:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/30/19 19:02	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/30/19 19:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/30/19 19:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/30/19 19:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/30/19 19:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/30/19 19:02	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/30/19 19:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/30/19 19:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		04/30/19 19:02	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/19 19:02	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		04/30/19 19:02	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-7 **Lab ID: 92426939007** Collected: 04/22/19 19:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 04:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	107	%	60-140		1	05/01/19 08:50	05/02/19 04:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/30/19 19:20	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/30/19 19:20	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/19 19:20	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/30/19 19:20	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/30/19 19:20	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/30/19 19:20	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/30/19 19:20	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/30/19 19:20	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/30/19 19:20	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/30/19 19:20	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/30/19 19:20	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/30/19 19:20	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/30/19 19:20	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/30/19 19:20	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/30/19 19:20	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/30/19 19:20	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		04/30/19 19:20	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/30/19 19:20	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-8 **Lab ID: 92426939008** Collected: 04/22/19 18:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 05:05	106-93-4	M1
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/02/19 05:05	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/30/19 19:38	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/30/19 19:38	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/19 19:38	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/30/19 19:38	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/30/19 19:38	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/30/19 19:38	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/30/19 19:38	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/30/19 19:38	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/30/19 19:38	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/30/19 19:38	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/30/19 19:38	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/30/19 19:38	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/30/19 19:38	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/30/19 19:38	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/30/19 19:38	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		04/30/19 19:38	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		04/30/19 19:38	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		04/30/19 19:38	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-9 **Lab ID: 92426939009** Collected: 04/22/19 18:15 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 06:04	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/01/19 08:50	05/02/19 06:04	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		04/30/19 19:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		04/30/19 19:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		04/30/19 19:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		04/30/19 19:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		04/30/19 19:55	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		04/30/19 19:55	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		04/30/19 19:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		04/30/19 19:55	108-20-3	
Ethanol	ND	ug/L	200	144	1		04/30/19 19:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		04/30/19 19:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		04/30/19 19:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		04/30/19 19:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		04/30/19 19:55	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		04/30/19 19:55	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		04/30/19 19:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		04/30/19 19:55	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		04/30/19 19:55	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		04/30/19 19:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-10 **Lab ID: 92426939010** Collected: 04/22/19 11:15 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 06:24	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/19 08:50	05/02/19 06:24	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:16	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:16	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 01:16	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/01/19 01:16	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		05/01/19 01:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-11 **Lab ID: 92426939011** Collected: 04/22/19 11:45 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 06:44	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/19 08:50	05/02/19 06:44	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:34	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:34	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:34	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:34	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:34	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:34	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:34	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:34	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:34	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:34	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:34	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:34	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:34	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:34	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:34	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 01:34	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		05/01/19 01:34	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		05/01/19 01:34	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-12 **Lab ID: 92426939012** Collected: 04/23/19 16:45 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 07:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	162	%	60-140		1	05/01/19 08:50	05/02/19 07:03	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**4450**	ug/L	2000	1310	20		05/01/19 06:19	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		05/01/19 06:19	994-05-8	
Benzene	**1820**	ug/L	100	34.8	20		05/01/19 06:19	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		05/01/19 06:19	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		05/01/19 06:19	75-65-0	L1
tert-Butyl Formate	ND	ug/L	1000	482	20		05/01/19 06:19	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	100	41.2	20		05/01/19 06:19	107-06-2	
Diisopropyl ether	ND	ug/L	100	69.8	20		05/01/19 06:19	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		05/01/19 06:19	64-17-5	
Ethylbenzene	**410**	ug/L	100	36.8	20		05/01/19 06:19	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		05/01/19 06:19	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		05/01/19 06:19	1634-04-4	
Naphthalene	ND	ug/L	100	41.8	20		05/01/19 06:19	91-20-3	
Toluene	**3130**	ug/L	100	40.2	20		05/01/19 06:19	108-88-3	
Xylene (Total)	**1600**	ug/L	100	100	20		05/01/19 06:19	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		20		05/01/19 06:19	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		20		05/01/19 06:19	17060-07-0	
Toluene-d8 (S)	97	%	70-130		20		05/01/19 06:19	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-12I **Lab ID: 92426939013** Collected: 04/23/19 16:15 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	05/01/19 08:50	05/02/19 07:23	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	125	%	60-140		1	05/01/19 08:50	05/02/19 07:23	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**4640**	ug/L	2000	1310	20		05/01/19 06:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		05/01/19 06:37	994-05-8	
Benzene	**2460**	ug/L	100	34.8	20		05/01/19 06:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		05/01/19 06:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		05/01/19 06:37	75-65-0	L1
tert-Butyl Formate	ND	ug/L	1000	482	20		05/01/19 06:37	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	100	41.2	20		05/01/19 06:37	107-06-2	
Diisopropyl ether	**121**	ug/L	100	69.8	20		05/01/19 06:37	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		05/01/19 06:37	64-17-5	
Ethylbenzene	**338**	ug/L	100	36.8	20		05/01/19 06:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		05/01/19 06:37	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	100	62.0	20		05/01/19 06:37	1634-04-4	
Naphthalene	**71.1J**	ug/L	100	41.8	20		05/01/19 06:37	91-20-3	
Toluene	**3070**	ug/L	100	40.2	20		05/01/19 06:37	108-88-3	
Xylene (Total)	**1770**	ug/L	100	100	20		05/01/19 06:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		20		05/01/19 06:37	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		20		05/01/19 06:37	17060-07-0	
Toluene-d8 (S)	101	%	70-130		20		05/01/19 06:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-14 **Lab ID: 92426939014** Collected: 04/22/19 14:40 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 07:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	141	%	60-140		1	05/01/19 08:50	05/02/19 07:43	301-79-56	S3
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**3150**	ug/L	400	262	4		05/01/19 06:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	40.0	12.2	4		05/01/19 06:55	994-05-8	
Benzene	**575**	ug/L	20.0	7.0	4		05/01/19 06:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	400	216	4		05/01/19 06:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	400	364	4		05/01/19 06:55	75-65-0	L1
tert-Butyl Formate	ND	ug/L	200	96.4	4		05/01/19 06:55	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	20.0	8.2	4		05/01/19 06:55	107-06-2	
Diisopropyl ether	ND	ug/L	20.0	14.0	4		05/01/19 06:55	108-20-3	
Ethanol	ND	ug/L	800	576	4		05/01/19 06:55	64-17-5	
Ethylbenzene	**56.1**	ug/L	20.0	7.4	4		05/01/19 06:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	40.0	33.8	4		05/01/19 06:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	20.0	12.4	4		05/01/19 06:55	1634-04-4	
Naphthalene	ND	ug/L	20.0	8.4	4		05/01/19 06:55	91-20-3	
Toluene	**300**	ug/L	20.0	8.0	4		05/01/19 06:55	108-88-3	
Xylene (Total)	**614**	ug/L	20.0	20.0	4		05/01/19 06:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		4		05/01/19 06:55	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		4		05/01/19 06:55	17060-07-0	
Toluene-d8 (S)	99	%	70-130		4		05/01/19 06:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-14I **Lab ID: 92426939015** Collected: 04/22/19 15:20 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 08:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/19 08:50	05/02/19 08:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:52	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:52	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:52	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:52	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:52	75-65-0	L1,M0
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:52	762-75-4	L2,P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:52	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:52	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:52	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:52	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:52	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:52	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:52	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:52	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:52	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 01:52	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/01/19 01:52	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/01/19 01:52	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-15 **Lab ID: 92426939016** Collected: 04/22/19 15:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 11:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/19 08:50	05/02/19 11:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:10	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:10	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:10	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:10	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:10	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:10	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:10	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:10	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:10	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:10	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:10	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:10	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:10	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:10	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:10	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 02:10	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/01/19 02:10	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		05/01/19 02:10	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-16 **Lab ID: 92426939017** Collected: 04/22/19 16:45 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 11:43	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/01/19 08:50	05/02/19 11:43	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:28	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:28	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:28	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:28	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:28	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:28	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:28	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:28	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:28	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:28	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:28	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:28	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:28	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:28	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:28	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 02:28	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/01/19 02:28	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		05/01/19 02:28	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-16I **Lab ID: 92426939018** Collected: 04/22/19 17:10 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 12:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	110	%	60-140		1	05/01/19 08:50	05/02/19 12:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:45	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:45	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:45	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:45	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:45	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:45	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:45	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:45	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:45	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 02:45	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/01/19 02:45	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/01/19 02:45	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-17 **Lab ID: 92426939019** Collected: 04/22/19 13:05 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 12:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/19 08:50	05/02/19 12:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 03:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 03:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 03:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 03:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 03:03	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 03:03	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 03:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 03:03	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 03:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 03:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 03:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 03:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 03:03	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 03:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 03:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/01/19 03:03	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130		1		05/01/19 03:03	17060-07-0	
Toluene-d8 (S)	108	%	70-130		1		05/01/19 03:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-17I **Lab ID: 92426939020** Collected: 04/22/19 13:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 12:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/19 08:50	05/02/19 12:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 03:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 03:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 03:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 03:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 03:21	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 03:21	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 03:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 03:21	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 03:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 03:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 03:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 03:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 03:21	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 03:21	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 03:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 03:21	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/01/19 03:21	17060-07-0	
Toluene-d8 (S)	107	%	70-130		1		05/01/19 03:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-19 **Lab ID: 92426939021** Collected: 04/23/19 10:35 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 13:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/19 08:50	05/02/19 13:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 22:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 22:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 22:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 22:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 22:49	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 22:49	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 22:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 22:49	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 22:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 22:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 22:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 22:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 22:49	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 22:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 22:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		05/01/19 22:49	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		05/01/19 22:49	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/01/19 22:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-19I **Lab ID: 92426939022** Collected: 04/23/19 10:00 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 13:22	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	05/01/19 08:50	05/02/19 13:22	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 23:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 23:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 23:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 23:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 23:07	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 23:07	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 23:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 23:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 23:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 23:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 23:07	637-92-3	
Methyl-tert-butyl ether	**3.2J**	ug/L	5.0	3.1	1		05/01/19 23:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 23:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 23:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 23:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		05/01/19 23:07	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		05/01/19 23:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/01/19 23:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-20 **Lab ID: 92426939023** Collected: 04/23/19 09:40 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 13:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	122	%	60-140		1	05/01/19 08:50	05/02/19 13:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**7910**	ug/L	1250	820	12.5		05/01/19 07:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		05/01/19 07:49	994-05-8	
Benzene	**1830**	ug/L	62.5	21.8	12.5		05/01/19 07:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		05/01/19 07:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		05/01/19 07:49	75-65-0	L1
tert-Butyl Formate	ND	ug/L	625	301	12.5		05/01/19 07:49	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		05/01/19 07:49	107-06-2	
Diisopropyl ether	**170**	ug/L	62.5	43.6	12.5		05/01/19 07:49	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		05/01/19 07:49	64-17-5	
Ethylbenzene	**231**	ug/L	62.5	23.0	12.5		05/01/19 07:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		05/01/19 07:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		05/01/19 07:49	1634-04-4	
Naphthalene	ND	ug/L	62.5	26.1	12.5		05/01/19 07:49	91-20-3	
Toluene	**63.3**	ug/L	62.5	25.1	12.5		05/01/19 07:49	108-88-3	
Xylene (Total)	**395**	ug/L	62.5	62.5	12.5		05/01/19 07:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		12.5		05/01/19 07:49	460-00-4	
1,2-Dichloroethane-d4 (S)	103	%	70-130		12.5		05/01/19 07:49	17060-07-0	
Toluene-d8 (S)	106	%	70-130		12.5		05/01/19 07:49	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-21 **Lab ID: 92426939024** Collected: 04/23/19 15:40 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 14:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	130	%	60-140		1	05/01/19 08:50	05/02/19 14:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**5590**	ug/L	2500	1640	25		05/01/19 08:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	250	76.0	25		05/01/19 08:07	994-05-8	
Benzene	**3540**	ug/L	125	43.5	25		05/01/19 08:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2500	1350	25		05/01/19 08:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2500	2280	25		05/01/19 08:07	75-65-0	L1
tert-Butyl Formate	ND	ug/L	1250	602	25		05/01/19 08:07	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	125	51.5	25		05/01/19 08:07	107-06-2	
Diisopropyl ether	**264**	ug/L	125	87.2	25		05/01/19 08:07	108-20-3	
Ethanol	ND	ug/L	5000	3600	25		05/01/19 08:07	64-17-5	
Ethylbenzene	**230**	ug/L	125	46.0	25		05/01/19 08:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	250	212	25		05/01/19 08:07	637-92-3	
Methyl-tert-butyl ether	**560**	ug/L	125	77.5	25		05/01/19 08:07	1634-04-4	
Naphthalene	**288**	ug/L	125	52.2	25		05/01/19 08:07	91-20-3	
Toluene	**779**	ug/L	125	50.2	25		05/01/19 08:07	108-88-3	
Xylene (Total)	**2070**	ug/L	125	125	25		05/01/19 08:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		25		05/01/19 08:07	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		25		05/01/19 08:07	17060-07-0	
Toluene-d8 (S)	102	%	70-130		25		05/01/19 08:07	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-22 **Lab ID: 92426939025** Collected: 04/23/19 18:05 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.074**	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 11:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	100	%	60-140		1	05/01/19 08:50	05/02/19 11:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 03:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 03:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 03:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 03:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 03:39	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 03:39	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 03:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 03:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 03:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 03:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 03:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 03:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 03:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 03:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 03:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 03:39	460-00-4	
1,2-Dichloroethane-d4 (S)	105	%	70-130		1		05/01/19 03:39	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		05/01/19 03:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-22I **Lab ID: 92426939026** Collected: 04/23/19 17:40 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/01/19 19:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	101	%	60-140		1	05/01/19 08:50	05/01/19 19:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**79.8J**	ug/L	100	65.6	1		05/01/19 03:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 03:56	994-05-8	
Benzene	**37.6**	ug/L	5.0	1.7	1		05/01/19 03:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 03:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 03:56	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 03:56	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 03:56	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 03:56	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 03:56	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 03:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 03:56	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 03:56	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 03:56	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 03:56	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 03:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 03:56	460-00-4	
1,2-Dichloroethane-d4 (S)	102	%	70-130		1		05/01/19 03:56	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		05/01/19 03:56	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-23 **Lab ID: 92426939027** Collected: 04/23/19 11:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.12**	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 11:33	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/01/19 08:50	05/02/19 11:33	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**72.8J**	ug/L	100	65.6	1		05/01/19 04:14	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 04:14	994-05-8	
Benzene	**2.8J**	ug/L	5.0	1.7	1		05/01/19 04:14	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 04:14	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 04:14	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 04:14	762-75-4	L2
1,2-Dichloroethane	**3.0J**	ug/L	5.0	2.1	1		05/01/19 04:14	107-06-2	
Diisopropyl ether	**4.5J**	ug/L	5.0	3.5	1		05/01/19 04:14	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 04:14	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 04:14	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 04:14	637-92-3	
Methyl-tert-butyl ether	**5.7**	ug/L	5.0	3.1	1		05/01/19 04:14	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 04:14	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 04:14	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 04:14	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		05/01/19 04:14	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130		1		05/01/19 04:14	17060-07-0	
Toluene-d8 (S)	105	%	70-130		1		05/01/19 04:14	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-23I **Lab ID: 92426939028** Collected: 04/23/19 11:25 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.082**	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 11:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	122	%	60-140		1	05/01/19 08:50	05/02/19 11:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**5760**	ug/L	2000	1310	20		05/02/19 00:51	75-85-4	
tert-Amylmethyl ether	ND	ug/L	200	60.8	20		05/02/19 00:51	994-05-8	
Benzene	**2260**	ug/L	100	34.8	20		05/02/19 00:51	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	2000	1080	20		05/02/19 00:51	624-95-3	
tert-Butyl Alcohol	ND	ug/L	2000	1820	20		05/02/19 00:51	75-65-0	L1
tert-Butyl Formate	ND	ug/L	1000	482	20		05/02/19 00:51	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	100	41.2	20		05/02/19 00:51	107-06-2	
Diisopropyl ether	**224**	ug/L	100	69.8	20		05/02/19 00:51	108-20-3	
Ethanol	ND	ug/L	4000	2880	20		05/02/19 00:51	64-17-5	
Ethylbenzene	ND	ug/L	100	36.8	20		05/02/19 00:51	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	200	169	20		05/02/19 00:51	637-92-3	
Methyl-tert-butyl ether	**163**	ug/L	100	62.0	20		05/02/19 00:51	1634-04-4	
Naphthalene	**66.7J**	ug/L	100	41.8	20		05/02/19 00:51	91-20-3	
Toluene	ND	ug/L	100	40.2	20		05/02/19 00:51	108-88-3	
Xylene (Total)	ND	ug/L	100	100	20		05/02/19 00:51	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		20		05/02/19 00:51	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		20		05/02/19 00:51	17060-07-0	
Toluene-d8 (S)	100	%	70-130		20		05/02/19 00:51	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-25 **Lab ID: 92426939029** Collected: 04/23/19 13:10 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/01/19 21:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/01/19 08:50	05/01/19 21:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**181J**	ug/L	200	131	2		05/01/19 23:59	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		05/01/19 23:59	994-05-8	
Benzene	**215**	ug/L	10.0	3.5	2		05/01/19 23:59	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		05/01/19 23:59	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		05/01/19 23:59	75-65-0	L1
tert-Butyl Formate	ND	ug/L	100	48.2	2		05/01/19 23:59	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		05/01/19 23:59	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		05/01/19 23:59	108-20-3	
Ethanol	ND	ug/L	400	288	2		05/01/19 23:59	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.7	2		05/01/19 23:59	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		05/01/19 23:59	637-92-3	
Methyl-tert-butyl ether	**21.5**	ug/L	10.0	6.2	2		05/01/19 23:59	1634-04-4	
Naphthalene	ND	ug/L	10.0	4.2	2		05/01/19 23:59	91-20-3	
Toluene	ND	ug/L	10.0	4.0	2		05/01/19 23:59	108-88-3	
Xylene (Total)	**52.3**	ug/L	10.0	10.0	2		05/01/19 23:59	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		2		05/01/19 23:59	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		2		05/01/19 23:59	17060-07-0	
Toluene-d8 (S)	99	%	70-130		2		05/01/19 23:59	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-26 **Lab ID: 92426939030** Collected: 04/23/19 18:50 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.045**	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 12:12	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	95	%	60-140		1	05/01/19 08:50	05/02/19 12:12	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 04:50	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 04:50	994-05-8	
Benzene	**39.0**	ug/L	5.0	1.7	1		05/01/19 04:50	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 04:50	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 04:50	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 04:50	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 04:50	107-06-2	
Diisopropyl ether	**4.7J**	ug/L	5.0	3.5	1		05/01/19 04:50	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 04:50	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 04:50	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 04:50	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 04:50	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 04:50	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 04:50	108-88-3	
Xylene (Total)	**33.9**	ug/L	5.0	5.0	1		05/01/19 04:50	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/01/19 04:50	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	70-130		1		05/01/19 04:50	17060-07-0	
Toluene-d8 (S)	106	%	70-130		1		05/01/19 04:50	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-26I **Lab ID: 92426939031** Collected: 04/23/19 18:35 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/01/19 22:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/01/19 08:50	05/01/19 22:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 05:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 05:08	994-05-8	
Benzene	**1.8J**	ug/L	5.0	1.7	1		05/01/19 05:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 05:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 05:08	75-65-0	L1,M0
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 05:08	762-75-4	L2,P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 05:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 05:08	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 05:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 05:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 05:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 05:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 05:08	91-20-3	
Toluene	**7.1**	ug/L	5.0	2.0	1		05/01/19 05:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 05:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/01/19 05:08	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/01/19 05:08	17060-07-0	
Toluene-d8 (S)	110	%	70-130		1		05/01/19 05:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-27 **Lab ID: 92426939032** Collected: 04/23/19 08:30 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/01/19 22:21	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/01/19 08:50	05/01/19 22:21	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 05:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 05:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 05:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 05:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 05:26	75-65-0	L1
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 05:26	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 05:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 05:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 05:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 05:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 05:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 05:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 05:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 05:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 05:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	101	%	70-130		1		05/01/19 05:26	460-00-4	
1,2-Dichloroethane-d4 (S)	98	%	70-130		1		05/01/19 05:26	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		05/01/19 05:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-27I **Lab ID: 92426939033** Collected: 04/23/19 09:10 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/01/19 22:39	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/01/19 08:50	05/01/19 22:39	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 03:16	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 03:16	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 03:16	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 03:16	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 03:16	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 03:16	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 03:16	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 03:16	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 03:16	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 03:16	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 03:16	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 03:16	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 03:16	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 03:16	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 03:16	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		05/01/19 03:16	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		1		05/01/19 03:16	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/01/19 03:16	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-28 **Lab ID: 92426939034** Collected: 04/22/19 19:25 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/01/19 22:58	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	102	%	60-140		1	05/01/19 08:50	05/01/19 22:58	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:39	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/01/19 02:39	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		05/01/19 02:39	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/01/19 02:39	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-X **Lab ID: 92426939035** Collected: 04/23/19 13:40 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**1.5**	ug/L	0.040	0.023	2	05/01/19 08:50	05/02/19 12:30	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	145	%	60-140		2	05/01/19 08:50	05/02/19 12:30	301-79-56	S5
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**6000**	ug/L	4000	2620	40		05/02/19 11:37	75-85-4	
tert-Amylmethyl ether	ND	ug/L	400	122	40		05/02/19 11:37	994-05-8	
Benzene	**1780**	ug/L	200	69.6	40		05/02/19 11:37	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	4000	2160	40		05/02/19 11:37	624-95-3	
tert-Butyl Alcohol	ND	ug/L	4000	3640	40		05/02/19 11:37	75-65-0	
tert-Butyl Formate	ND	ug/L	2000	964	40		05/02/19 11:37	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	200	82.4	40		05/02/19 11:37	107-06-2	
Diisopropyl ether	ND	ug/L	200	140	40		05/02/19 11:37	108-20-3	
Ethanol	ND	ug/L	8000	5760	40		05/02/19 11:37	64-17-5	
Ethylbenzene	**364**	ug/L	200	73.6	40		05/02/19 11:37	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	400	338	40		05/02/19 11:37	637-92-3	
Methyl-tert-butyl ether	**1480**	ug/L	200	124	40		05/02/19 11:37	1634-04-4	
Naphthalene	ND	ug/L	200	83.6	40		05/02/19 11:37	91-20-3	
Toluene	**4760**	ug/L	200	80.4	40		05/02/19 11:37	108-88-3	
Xylene (Total)	**2550**	ug/L	200	200	40		05/02/19 11:37	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		40		05/02/19 11:37	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		40		05/02/19 11:37	17060-07-0	
Toluene-d8 (S)	99	%	70-130		40		05/02/19 11:37	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-XR **Lab ID: 92426939036** Collected: 04/23/19 14:10 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.21**	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 12:49	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	98	%	60-140		1	05/01/19 08:50	05/02/19 12:49	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 03:35	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 03:35	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 03:35	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 03:35	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 03:35	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 03:35	762-75-4	L2,M0
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 03:35	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 03:35	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 03:35	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 03:35	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 03:35	637-92-3	
Methyl-tert-butyl ether	**4.9J**	ug/L	5.0	3.1	1		05/01/19 03:35	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 03:35	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 03:35	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 03:35	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 03:35	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130		1		05/01/19 03:35	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		05/01/19 03:35	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: RW-02 **Lab ID: 92426939037** Collected: 04/23/19 14:40 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.059**	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 13:09	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	106	%	60-140		1	05/01/19 08:50	05/02/19 13:09	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		05/02/19 01:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		05/02/19 01:43	994-05-8	
Benzene	**1470**	ug/L	250	87.0	50		05/02/19 01:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		05/02/19 01:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		05/02/19 01:43	75-65-0	L1
tert-Butyl Formate	ND	ug/L	2500	1200	50		05/02/19 01:43	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	250	103	50		05/02/19 01:43	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		05/02/19 01:43	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		05/02/19 01:43	64-17-5	
Ethylbenzene	**889**	ug/L	250	92.0	50		05/02/19 01:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		05/02/19 01:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		05/02/19 01:43	1634-04-4	
Naphthalene	**1070**	ug/L	250	104	50		05/02/19 01:43	91-20-3	
Toluene	**7790**	ug/L	250	100	50		05/02/19 01:43	108-88-3	
Xylene (Total)	**10500**	ug/L	250	250	50		05/02/19 01:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		50		05/02/19 01:43	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		50		05/02/19 01:43	17060-07-0	
Toluene-d8 (S)	98	%	70-130		50		05/02/19 01:43	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: RW-03 **Lab ID: 92426939038** Collected: 04/23/19 15:20 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 00:11	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	108	%	60-140		1	05/01/19 08:50	05/02/19 00:11	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**713**	ug/L	200	131	2		05/01/19 23:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		05/01/19 23:41	994-05-8	
Benzene	**108**	ug/L	10.0	3.5	2		05/01/19 23:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		05/01/19 23:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		05/01/19 23:41	75-65-0	L1
tert-Butyl Formate	ND	ug/L	100	48.2	2		05/01/19 23:41	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		05/01/19 23:41	107-06-2	
Diisopropyl ether	**14.3**	ug/L	10.0	7.0	2		05/01/19 23:41	108-20-3	
Ethanol	ND	ug/L	400	288	2		05/01/19 23:41	64-17-5	
Ethylbenzene	**42.2**	ug/L	10.0	3.7	2		05/01/19 23:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		05/01/19 23:41	637-92-3	
Methyl-tert-butyl ether	**23.7**	ug/L	10.0	6.2	2		05/01/19 23:41	1634-04-4	
Naphthalene	**13.2**	ug/L	10.0	4.2	2		05/01/19 23:41	91-20-3	
Toluene	**139**	ug/L	10.0	4.0	2		05/01/19 23:41	108-88-3	
Xylene (Total)	**485**	ug/L	10.0	10.0	2		05/01/19 23:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		2		05/01/19 23:41	460-00-4	
1,2-Dichloroethane-d4 (S)	93	%	70-130		2		05/01/19 23:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		2		05/01/19 23:41	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: DUP-A **Lab ID: 92426939039** Collected: 04/23/19 09:45 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 00:29	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	126	%	60-140		1	05/01/19 08:50	05/02/19 00:29	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	**8490**	ug/L	1250	820	12.5		05/02/19 00:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	125	38.0	12.5		05/02/19 00:33	994-05-8	
Benzene	**1610**	ug/L	62.5	21.8	12.5		05/02/19 00:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1250	674	12.5		05/02/19 00:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1250	1140	12.5		05/02/19 00:33	75-65-0	L1
tert-Butyl Formate	ND	ug/L	625	301	12.5		05/02/19 00:33	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	62.5	25.8	12.5		05/02/19 00:33	107-06-2	
Diisopropyl ether	**157**	ug/L	62.5	43.6	12.5		05/02/19 00:33	108-20-3	
Ethanol	ND	ug/L	2500	1800	12.5		05/02/19 00:33	64-17-5	
Ethylbenzene	**209**	ug/L	62.5	23.0	12.5		05/02/19 00:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	125	106	12.5		05/02/19 00:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	62.5	38.8	12.5		05/02/19 00:33	1634-04-4	
Naphthalene	**26.6J**	ug/L	62.5	26.1	12.5		05/02/19 00:33	91-20-3	
Toluene	**62.6**	ug/L	62.5	25.1	12.5		05/02/19 00:33	108-88-3	
Xylene (Total)	**372**	ug/L	62.5	62.5	12.5		05/02/19 00:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		12.5		05/02/19 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		12.5		05/02/19 00:33	17060-07-0	
Toluene-d8 (S)	100	%	70-130		12.5		05/02/19 00:33	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: DUP-B **Lab ID: 92426939040** Collected: 04/23/19 14:45 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	**0.048**	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 13:28	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	114	%	60-140		1	05/01/19 08:50	05/02/19 13:28	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	10000	6560	100		05/02/19 11:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	1000	304	100		05/02/19 11:55	994-05-8	
Benzene	**1230**	ug/L	500	174	100		05/02/19 11:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	10000	5390	100		05/02/19 11:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	10000	9100	100		05/02/19 11:55	75-65-0	
tert-Butyl Formate	ND	ug/L	5000	2410	100		05/02/19 11:55	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	500	206	100		05/02/19 11:55	107-06-2	
Diisopropyl ether	ND	ug/L	500	349	100		05/02/19 11:55	108-20-3	
Ethanol	ND	ug/L	20000	14400	100		05/02/19 11:55	64-17-5	
Ethylbenzene	**518**	ug/L	500	184	100		05/02/19 11:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	1000	846	100		05/02/19 11:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	500	310	100		05/02/19 11:55	1634-04-4	
Naphthalene	**535**	ug/L	500	209	100		05/02/19 11:55	91-20-3	
Toluene	**6530**	ug/L	500	201	100		05/02/19 11:55	108-88-3	
Xylene (Total)	**7320**	ug/L	500	500	100		05/02/19 11:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		100		05/02/19 11:55	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		100		05/02/19 11:55	17060-07-0	
Toluene-d8 (S)	101	%	70-130		100		05/02/19 11:55	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: FB-01 **Lab ID: 92426939041** Collected: 04/22/19 12:30 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	05/01/19 08:50	05/02/19 01:06	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	96	%	60-140		1	05/01/19 08:50	05/02/19 01:06	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:21	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:21	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:21	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:21	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 02:21	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		05/01/19 02:21	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/01/19 02:21	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: FB-02 **Lab ID: 92426939042** Collected: 04/23/19 14:25 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 01:24	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	104	%	60-140		1	05/01/19 08:50	05/02/19 01:24	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:03	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:03	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:03	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:03	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:03	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:03	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:03	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:03	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:03	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:03	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:03	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:03	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:03	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:03	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:03	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	105	%	70-130		1		05/01/19 02:03	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		05/01/19 02:03	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/01/19 02:03	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: TB-01 **Lab ID: 92426939043** Collected: 04/23/19 00:00 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:26	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 01:26	460-00-4	
1,2-Dichloroethane-d4 (S)	94	%	70-130		1		05/01/19 01:26	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/01/19 01:26	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: TB-02 **Lab ID: 92426939044** Collected: 04/23/19 00:00 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:44	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	103	%	70-130		1		05/01/19 01:44	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		05/01/19 01:44	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/01/19 01:44	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: TB-03 **Lab ID: 92426939045** Collected: 04/23/19 00:00 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 01:08	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 01:08	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 01:08	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 01:08	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 01:08	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 01:08	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 01:08	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 01:08	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 01:08	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 01:08	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 01:08	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 01:08	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 01:08	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 01:08	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 01:08	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/01/19 01:08	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		05/01/19 01:08	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		05/01/19 01:08	2037-26-5	

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ANALYTICAL RESULTS

Project: Westside Quick Stop
Pace Project No.: 92426939

Sample: MW-15I **Lab ID: 92426939046** Collected: 04/22/19 16:25 Received: 04/25/19 12:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	05/01/19 08:50	05/02/19 01:42	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	99	%	60-140		1	05/01/19 08:50	05/02/19 01:42	301-79-56	
8260 MSV	Analytical Method: EPA 8260B								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		05/01/19 02:58	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		05/01/19 02:58	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		05/01/19 02:58	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		05/01/19 02:58	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		05/01/19 02:58	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		05/01/19 02:58	762-75-4	L2
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		05/01/19 02:58	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		05/01/19 02:58	108-20-3	
Ethanol	ND	ug/L	200	144	1		05/01/19 02:58	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		05/01/19 02:58	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		05/01/19 02:58	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		05/01/19 02:58	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		05/01/19 02:58	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		05/01/19 02:58	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		05/01/19 02:58	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		1		05/01/19 02:58	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		1		05/01/19 02:58	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		05/01/19 02:58	2037-26-5	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472296 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939005, 92426939006, 92426939007, 92426939008, 92426939009

METHOD BLANK: 2562379 Matrix: Water
Associated Lab Samples: 92426939005, 92426939006, 92426939007, 92426939008, 92426939009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/30/19 13:05	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/30/19 13:05	
Benzene	ug/L	ND	5.0	1.7	04/30/19 13:05	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/30/19 13:05	
Ethanol	ug/L	ND	200	144	04/30/19 13:05	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/30/19 13:05	
Ethylbenzene	ug/L	ND	5.0	1.8	04/30/19 13:05	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/30/19 13:05	
Naphthalene	ug/L	ND	5.0	2.1	04/30/19 13:05	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/30/19 13:05	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/30/19 13:05	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/30/19 13:05	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/30/19 13:05	
Toluene	ug/L	ND	5.0	2.0	04/30/19 13:05	
Xylene (Total)	ug/L	ND	5.0	5.0	04/30/19 13:05	
1,2-Dichloroethane-d4 (S)	%	92	70-130		04/30/19 13:05	
4-Bromofluorobenzene (S)	%	101	70-130		04/30/19 13:05	
Toluene-d8 (S)	%	110	70-130		04/30/19 13:05	

LABORATORY CONTROL SAMPLE: 2562380

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.5	99	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	993	99	70-130	1g
Benzene	ug/L	50	50.2	100	70-130	
Diisopropyl ether	ug/L	50	55.3	111	70-130	
Ethanol	ug/L	2000	2000	100	70-130	
Ethyl-tert-butyl ether	ug/L	100	110	110	70-130	
Ethylbenzene	ug/L	50	49.5	99	70-130	
Methyl-tert-butyl ether	ug/L	50	57.5	115	70-130	
Naphthalene	ug/L	50	52.8	106	70-130	
tert-Amyl Alcohol	ug/L	1000	979	98	70-130	1g
tert-Amylmethyl ether	ug/L	100	105	105	70-130	
tert-Butyl Alcohol	ug/L	500	774	155	70-130	3g,L1
tert-Butyl Formate	ug/L	400	ND	4	70-130	3g,L2
Toluene	ug/L	50	46.4	93	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			103	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			95	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562381 2562382

Parameter	Units	92426688001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	19.1	19.2	95	96	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	344	378	86	95	70-130	10	30	
Benzene	ug/L	ND	20	20	20.3	20.8	101	104	70-130	2	30	
Diisopropyl ether	ug/L	ND	20	20	17.8	18.4	89	92	70-130	3	30	
Ethanol	ug/L	ND	800	800	674	722	84	90	70-130	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.5	37.6	89	94	70-130	6	30	
Ethylbenzene	ug/L	ND	20	20	19.9	19.8	100	99	70-130	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	18.6	19.0	93	95	70-130	2	30	
Naphthalene	ug/L	ND	20	20	18.6	19.4	93	97	70-130	4	30	
tert-Amyl Alcohol	ug/L	ND	400	400	359	373	90	93	70-130	4	30	
tert-Amylmethyl ether	ug/L	ND	40	40	36.1	38.5	90	96	70-130	6	30	
tert-Butyl Alcohol	ug/L	ND	200	200	254	273	127	136	70-130	7	30	M0
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	20	20	20.0	19.9	100	100	70-130	1	30	
Xylene (Total)	ug/L	ND	60	60	60.3	59.1	101	98	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						99	96	70-130			
4-Bromofluorobenzene (S)	%						102	101	70-130			
Toluene-d8 (S)	%						101	98	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472389
QC Batch Method: EPA 8260B
Analysis Method: EPA 8260B
Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939002

METHOD BLANK: 2562766
Matrix: Water
Associated Lab Samples: 92426939002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/30/19 23:00	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/30/19 23:00	
Benzene	ug/L	ND	5.0	1.7	04/30/19 23:00	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/30/19 23:00	
Ethanol	ug/L	ND	200	144	04/30/19 23:00	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/30/19 23:00	
Ethylbenzene	ug/L	ND	5.0	1.8	04/30/19 23:00	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/30/19 23:00	
Naphthalene	ug/L	ND	5.0	2.1	04/30/19 23:00	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/30/19 23:00	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/30/19 23:00	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/30/19 23:00	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/30/19 23:00	
Toluene	ug/L	ND	5.0	2.0	04/30/19 23:00	
Xylene (Total)	ug/L	ND	5.0	5.0	04/30/19 23:00	
1,2-Dichloroethane-d4 (S)	%	94	70-130		04/30/19 23:00	
4-Bromofluorobenzene (S)	%	99	70-130		04/30/19 23:00	
Toluene-d8 (S)	%	100	70-130		04/30/19 23:00	

LABORATORY CONTROL SAMPLE: 2562767

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.6	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	877	88	70-130	
Benzene	ug/L	50	53.2	106	70-130	
Diisopropyl ether	ug/L	50	47.6	95	70-130	
Ethanol	ug/L	2000	1940	97	70-130	
Ethyl-tert-butyl ether	ug/L	100	103	103	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	51.8	104	70-130	
Naphthalene	ug/L	50	56.4	113	70-130	
tert-Amyl Alcohol	ug/L	1000	1090	109	70-130	
tert-Amylmethyl ether	ug/L	100	114	114	70-130	
tert-Butyl Alcohol	ug/L	500	714	143	70-130	2g,L1
tert-Butyl Formate	ug/L	400	ND	3	70-130	2g,L2
Toluene	ug/L	50	50.7	101	70-130	
Xylene (Total)	ug/L	150	156	104	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			101	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563227 2563228

Parameter	Units	92426888012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	500	500	506	490	101	98	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	10000	10000	9090	7450	91	74	70-130	20	30	
Benzene	ug/L	3810	500	500	4190	4070	75	50	70-130	3	30	M1
Diisopropyl ether	ug/L	ND	500	500	510	487	102	97	70-130	4	30	
Ethanol	ug/L	ND	20000	20000	21500	19700	107	98	70-130	9	30	
Ethyl-tert-butyl ether	ug/L	ND	1000	1000	1090	1050	109	105	70-130	4	30	
Ethylbenzene	ug/L	488	500	500	1010	983	104	99	70-130	2	30	
Methyl-tert-butyl ether	ug/L	290	500	500	853	806	113	103	70-130	6	30	
Naphthalene	ug/L	298	500	500	947	876	130	116	70-130	8	30	
tert-Amyl Alcohol	ug/L	ND	10000	10000	12800	12000	128	120	70-130	7	30	
tert-Amylmethyl ether	ug/L	ND	1000	1000	1200	1170	120	117	70-130	3	30	
tert-Butyl Alcohol	ug/L	ND	5000	5000	8190	7560	158	145	70-130	8	30	M0
tert-Butyl Formate	ug/L	ND	4000	4000	ND	ND	3	0	70-130		30	P5
Toluene	ug/L	77.8J	500	500	610	603	106	105	70-130	1	30	
Xylene (Total)	ug/L	537	1500	1500	2200	2150	111	108	70-130	2	30	
1,2-Dichloroethane-d4 (S)	%						94	93	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						100	101	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472394 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939001, 92426939003

METHOD BLANK: 2562784 Matrix: Water
Associated Lab Samples: 92426939001, 92426939003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/30/19 23:18	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/30/19 23:18	
Benzene	ug/L	ND	5.0	1.7	04/30/19 23:18	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/30/19 23:18	
Ethanol	ug/L	ND	200	144	04/30/19 23:18	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/30/19 23:18	
Ethylbenzene	ug/L	ND	5.0	1.8	04/30/19 23:18	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/30/19 23:18	
Naphthalene	ug/L	ND	5.0	2.1	04/30/19 23:18	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/30/19 23:18	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/30/19 23:18	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/30/19 23:18	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/30/19 23:18	
Toluene	ug/L	ND	5.0	2.0	04/30/19 23:18	
Xylene (Total)	ug/L	ND	5.0	5.0	04/30/19 23:18	
1,2-Dichloroethane-d4 (S)	%	93	70-130		04/30/19 23:18	
4-Bromofluorobenzene (S)	%	99	70-130		04/30/19 23:18	
Toluene-d8 (S)	%	101	70-130		04/30/19 23:18	

LABORATORY CONTROL SAMPLE: 2562785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	49.0	98	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	878	88	70-130	
Benzene	ug/L	50	53.9	108	70-130	
Diisopropyl ether	ug/L	50	48.8	98	70-130	
Ethanol	ug/L	2000	1980	99	70-130	
Ethyl-tert-butyl ether	ug/L	100	105	105	70-130	
Ethylbenzene	ug/L	50	50.8	102	70-130	
Methyl-tert-butyl ether	ug/L	50	53.0	106	70-130	
Naphthalene	ug/L	50	58.3	117	70-130	
tert-Amyl Alcohol	ug/L	1000	1100	110	70-130	
tert-Amylmethyl ether	ug/L	100	114	114	70-130	
tert-Butyl Alcohol	ug/L	500	733	147	70-130	2g,L1
tert-Butyl Formate	ug/L	400	ND	3	70-130	2g,L2
Toluene	ug/L	50	51.5	103	70-130	
Xylene (Total)	ug/L	150	160	106	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			100	70-130	
Toluene-d8 (S)	%			100	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562786 2562787

Parameter	Units	92426888001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	250	250	261	260	105	104	70-130	0	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	5000	5000	4030	4180	81	84	70-130	4	30	
Benzene	ug/L	538	250	250	819	828	112	116	70-130	1	30	
Diisopropyl ether	ug/L	ND	250	250	246	248	98	99	70-130	1	30	
Ethanol	ug/L	ND	10000	10000	10100	10200	101	102	70-130	1	30	
Ethyl-tert-butyl ether	ug/L	ND	500	500	525	531	105	106	70-130	1	30	
Ethylbenzene	ug/L	142	250	250	401	410	103	107	70-130	2	30	
Methyl-tert-butyl ether	ug/L	45.6J	250	250	314	318	107	109	70-130	1	30	
Naphthalene	ug/L	136	250	250	404	432	107	118	70-130	7	30	
tert-Amyl Alcohol	ug/L	ND	5000	5000	5900	6040	118	121	70-130	2	30	
tert-Amylmethyl ether	ug/L	ND	500	500	577	587	115	117	70-130	2	30	
tert-Butyl Alcohol	ug/L	ND	2500	2500	3690	3760	148	151	70-130	2	30	M0
tert-Butyl Formate	ug/L	ND	2000	2000	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	1150	250	250	1410	1450	102	116	70-130	3	30	
Xylene (Total)	ug/L	2060	750	750	2870	2960	107	120	70-130	3	30	
1,2-Dichloroethane-d4 (S)	%						94	93	70-130			
4-Bromofluorobenzene (S)	%						99	100	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472425 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939004, 92426939010, 92426939011, 92426939012, 92426939013, 92426939014, 92426939015, 92426939016, 92426939017, 92426939018, 92426939019, 92426939020, 92426939023, 92426939024, 92426939025, 92426939026, 92426939027

METHOD BLANK: 2562904 Matrix: Water
Associated Lab Samples: 92426939004, 92426939010, 92426939011, 92426939012, 92426939013, 92426939014, 92426939015, 92426939016, 92426939017, 92426939018, 92426939019, 92426939020, 92426939023, 92426939024, 92426939025, 92426939026, 92426939027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/01/19 00:40	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/01/19 00:40	
Benzene	ug/L	ND	5.0	1.7	05/01/19 00:40	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/01/19 00:40	
Ethanol	ug/L	ND	200	144	05/01/19 00:40	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/01/19 00:40	
Ethylbenzene	ug/L	ND	5.0	1.8	05/01/19 00:40	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/01/19 00:40	
Naphthalene	ug/L	ND	5.0	2.1	05/01/19 00:40	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/01/19 00:40	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/01/19 00:40	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/01/19 00:40	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/01/19 00:40	
Toluene	ug/L	ND	5.0	2.0	05/01/19 00:40	
Xylene (Total)	ug/L	ND	5.0	5.0	05/01/19 00:40	
1,2-Dichloroethane-d4 (S)	%	94	70-130		05/01/19 00:40	
4-Bromofluorobenzene (S)	%	102	70-130		05/01/19 00:40	
Toluene-d8 (S)	%	107	70-130		05/01/19 00:40	

LABORATORY CONTROL SAMPLE: 2562905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.9	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1060	106	70-130	1g
Benzene	ug/L	50	49.4	99	70-130	
Diisopropyl ether	ug/L	50	53.4	107	70-130	
Ethanol	ug/L	2000	1810	90	70-130	
Ethyl-tert-butyl ether	ug/L	100	111	111	70-130	
Ethylbenzene	ug/L	50	50.7	101	70-130	
Methyl-tert-butyl ether	ug/L	50	55.4	111	70-130	
Naphthalene	ug/L	50	55.0	110	70-130	
tert-Amyl Alcohol	ug/L	1000	1060	106	70-130	1g
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	793	159	70-130	3g,L1
tert-Butyl Formate	ug/L	400	ND	5	70-130	3g,L2
Toluene	ug/L	50	47.1	94	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

LABORATORY CONTROL SAMPLE: 2562905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Xylene (Total)	ug/L	150	152	101	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562906 2562907

Parameter	Units	92426939015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	18.8	19.2	94	96	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	361	410	90	102	70-130	13	30	
Benzene	ug/L	ND	20	20	19.5	20.9	97	104	70-130	7	30	
Diisopropyl ether	ug/L	ND	20	20	17.5	19.4	87	97	70-130	11	30	
Ethanol	ug/L	ND	800	800	679	712	85	89	70-130	5	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	35.8	38.5	90	96	70-130	7	30	
Ethylbenzene	ug/L	ND	20	20	19.8	21.2	99	106	70-130	7	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.2	19.2	96	96	70-130	0	30	
Naphthalene	ug/L	ND	20	20	18.2	20.2	91	101	70-130	10	30	
tert-Amyl Alcohol	ug/L	ND	400	400	351	401	88	100	70-130	13	30	
tert-Amylmethyl ether	ug/L	ND	40	40	36.4	38.9	91	97	70-130	7	30	
tert-Butyl Alcohol	ug/L	ND	200	200	257	291	129	145	70-130	12	30	3g,M0
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	20	20	19.8	20.3	99	101	70-130	2	30	
Xylene (Total)	ug/L	ND	60	60	60.2	63.6	100	106	70-130	6	30	
1,2-Dichloroethane-d4 (S)	%						100	93	70-130			
4-Bromofluorobenzene (S)	%						103	102	70-130			
Toluene-d8 (S)	%						100	97	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472426 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939030, 92426939031, 92426939032

METHOD BLANK: 2562908 Matrix: Water
Associated Lab Samples: 92426939030, 92426939031, 92426939032

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/01/19 00:23	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/01/19 00:23	
Benzene	ug/L	ND	5.0	1.7	05/01/19 00:23	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/01/19 00:23	
Ethanol	ug/L	ND	200	144	05/01/19 00:23	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/01/19 00:23	
Ethylbenzene	ug/L	ND	5.0	1.8	05/01/19 00:23	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/01/19 00:23	
Naphthalene	ug/L	ND	5.0	2.1	05/01/19 00:23	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/01/19 00:23	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/01/19 00:23	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/01/19 00:23	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/01/19 00:23	
Toluene	ug/L	ND	5.0	2.0	05/01/19 00:23	
Xylene (Total)	ug/L	ND	5.0	5.0	05/01/19 00:23	
1,2-Dichloroethane-d4 (S)	%	95	70-130		05/01/19 00:23	
4-Bromofluorobenzene (S)	%	103	70-130		05/01/19 00:23	
Toluene-d8 (S)	%	112	70-130		05/01/19 00:23	

LABORATORY CONTROL SAMPLE: 2562909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	47.5	95	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	999	100	70-130	1g
Benzene	ug/L	50	50.0	100	70-130	
Diisopropyl ether	ug/L	50	53.6	107	70-130	
Ethanol	ug/L	2000	1960	98	70-130	
Ethyl-tert-butyl ether	ug/L	100	111	111	70-130	
Ethylbenzene	ug/L	50	49.8	100	70-130	
Methyl-tert-butyl ether	ug/L	50	56.5	113	70-130	
Naphthalene	ug/L	50	53.8	108	70-130	
tert-Amyl Alcohol	ug/L	1000	1030	103	70-130	1g
tert-Amylmethyl ether	ug/L	100	112	112	70-130	
tert-Butyl Alcohol	ug/L	500	797	159	70-130	3g,L1
tert-Butyl Formate	ug/L	400	ND	5	70-130	3g,L2
Toluene	ug/L	50	47.3	95	70-130	
Xylene (Total)	ug/L	150	150	100	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562910 2562911

Parameter	Units	92426939031 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	20.0	20.1	100	100	70-130	0	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	401	393	100	98	70-130	2	30	
Benzene	ug/L	1.8J	20	20	23.3	22.7	107	104	70-130	3	30	
Diisopropyl ether	ug/L	ND	20	20	19.0	19.0	95	95	70-130	0	30	
Ethanol	ug/L	ND	800	800	773	724	97	91	70-130	7	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	38.1	38.3	95	96	70-130	1	30	
Ethylbenzene	ug/L	ND	20	20	22.8	23.1	105	107	70-130	1	30	
Methyl-tert-butyl ether	ug/L	ND	20	20	19.9	20.4	100	102	70-130	3	30	
Naphthalene	ug/L	ND	20	20	20.3	19.7	99	96	70-130	3	30	
tert-Amyl Alcohol	ug/L	ND	400	400	387	371	97	93	70-130	4	30	
tert-Amylmethyl ether	ug/L	ND	40	40	41.4	38.6	103	96	70-130	7	30	
tert-Butyl Alcohol	ug/L	ND	200	200	275	274	137	137	70-130	0	30	3g,M0
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	7.1	20	20	27.7	26.4	103	97	70-130	5	30	
Xylene (Total)	ug/L	ND	60	60	73.8	73.6	123	123	70-130	0	30	
1,2-Dichloroethane-d4 (S)	%						95	97	70-130			
4-Bromofluorobenzene (S)	%						104	103	70-130			
Toluene-d8 (S)	%						99	98	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472458 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939033, 92426939034, 92426939036, 92426939041, 92426939042, 92426939043, 92426939044, 92426939045, 92426939046

METHOD BLANK: 2563090 Matrix: Water
Associated Lab Samples: 92426939033, 92426939034, 92426939036, 92426939041, 92426939042, 92426939043, 92426939044, 92426939045, 92426939046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	04/30/19 19:38	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	04/30/19 19:38	
Benzene	ug/L	ND	5.0	1.7	04/30/19 19:38	
Diisopropyl ether	ug/L	ND	5.0	3.5	04/30/19 19:38	
Ethanol	ug/L	ND	200	144	04/30/19 19:38	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	04/30/19 19:38	
Ethylbenzene	ug/L	ND	5.0	1.8	04/30/19 19:38	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	04/30/19 19:38	
Naphthalene	ug/L	ND	5.0	2.1	04/30/19 19:38	
tert-Amyl Alcohol	ug/L	ND	100	65.6	04/30/19 19:38	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	04/30/19 19:38	
tert-Butyl Alcohol	ug/L	ND	100	91.0	04/30/19 19:38	
tert-Butyl Formate	ug/L	ND	50.0	24.1	04/30/19 19:38	
Toluene	ug/L	ND	5.0	2.0	04/30/19 19:38	
Xylene (Total)	ug/L	ND	5.0	5.0	04/30/19 19:38	
1,2-Dichloroethane-d4 (S)	%	89	70-130		04/30/19 19:38	
4-Bromofluorobenzene (S)	%	104	70-130		04/30/19 19:38	
Toluene-d8 (S)	%	102	70-130		04/30/19 19:38	

LABORATORY CONTROL SAMPLE: 2563091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.3	93	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	944	94	70-130	
Benzene	ug/L	50	48.7	97	70-130	
Diisopropyl ether	ug/L	50	49.1	98	70-130	
Ethanol	ug/L	2000	1880	94	70-130	
Ethyl-tert-butyl ether	ug/L	100	96.6	97	70-130	
Ethylbenzene	ug/L	50	48.1	96	70-130	
Methyl-tert-butyl ether	ug/L	50	44.0	88	70-130	
Naphthalene	ug/L	50	49.5	99	70-130	
tert-Amyl Alcohol	ug/L	1000	946	95	70-130	
tert-Amylmethyl ether	ug/L	100	103	103	70-130	
tert-Butyl Alcohol	ug/L	500	489	98	70-130	
tert-Butyl Formate	ug/L	400	ND	2	70-130	3g,L2
Toluene	ug/L	50	46.3	93	70-130	
Xylene (Total)	ug/L	150	145	97	70-130	
1,2-Dichloroethane-d4 (S)	%			97	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

LABORATORY CONTROL SAMPLE: 2563091

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
4-Bromofluorobenzene (S)	%			99	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563882 2563883

Parameter	Units	92426939036 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	18.2	19.7	91	98	70-130	8	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	400	400	349	389	87	97	70-130	11	30	
Benzene	ug/L	ND	20	20	21.6	22.9	100	107	70-130	6	30	
Diisopropyl ether	ug/L	ND	20	20	17.7	19.3	85	93	70-130	9	30	
Ethanol	ug/L	ND	800	800	679	734	85	92	70-130	8	30	
Ethyl-tert-butyl ether	ug/L	ND	40	40	33.6	37.2	84	93	70-130	10	30	
Ethylbenzene	ug/L	ND	20	20	20.3	21.5	102	107	70-130	6	30	
Methyl-tert-butyl ether	ug/L	4.9J	20	20	21.4	23.1	83	91	70-130	7	30	
Naphthalene	ug/L	ND	20	20	18.0	19.8	90	99	70-130	10	30	
tert-Amyl Alcohol	ug/L	ND	400	400	424	473	91	103	70-130	11	30	
tert-Amylmethyl ether	ug/L	ND	40	40	39.0	41.7	97	104	70-130	7	30	
tert-Butyl Alcohol	ug/L	ND	200	200	173	190	87	95	70-130	9	30	
tert-Butyl Formate	ug/L	ND	160	160	ND	ND	0	0	70-130		30	M0
Toluene	ug/L	ND	20	20	20.8	22.1	97	104	70-130	6	30	
Xylene (Total)	ug/L	ND	60	60	69.1	73.3	115	122	70-130	6	30	
1,2-Dichloroethane-d4 (S)	%						94	95	70-130			
4-Bromofluorobenzene (S)	%						100	100	70-130			
Toluene-d8 (S)	%						97	97	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472652 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939021, 92426939022, 92426939028, 92426939029, 92426939037, 92426939038, 92426939039

METHOD BLANK: 2563906 Matrix: Water
Associated Lab Samples: 92426939021, 92426939022, 92426939028, 92426939029, 92426939037, 92426939038, 92426939039

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/01/19 21:57	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/01/19 21:57	
Benzene	ug/L	ND	5.0	1.7	05/01/19 21:57	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/01/19 21:57	
Ethanol	ug/L	ND	200	144	05/01/19 21:57	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/01/19 21:57	
Ethylbenzene	ug/L	ND	5.0	1.8	05/01/19 21:57	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/01/19 21:57	
Naphthalene	ug/L	ND	5.0	2.1	05/01/19 21:57	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/01/19 21:57	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/01/19 21:57	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/01/19 21:57	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/01/19 21:57	
Toluene	ug/L	ND	5.0	2.0	05/01/19 21:57	
Xylene (Total)	ug/L	ND	5.0	5.0	05/01/19 21:57	
1,2-Dichloroethane-d4 (S)	%	94	70-130		05/01/19 21:57	
4-Bromofluorobenzene (S)	%	98	70-130		05/01/19 21:57	
Toluene-d8 (S)	%	99	70-130		05/01/19 21:57	

LABORATORY CONTROL SAMPLE: 2563907

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	46.9	94	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	834	83	70-130	
Benzene	ug/L	50	52.5	105	70-130	
Diisopropyl ether	ug/L	50	46.8	94	70-130	
Ethanol	ug/L	2000	1830	92	70-130	
Ethyl-tert-butyl ether	ug/L	100	101	101	70-130	
Ethylbenzene	ug/L	50	48.6	97	70-130	
Methyl-tert-butyl ether	ug/L	50	51.5	103	70-130	
Naphthalene	ug/L	50	53.8	108	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	111	111	70-130	
tert-Butyl Alcohol	ug/L	500	675	135	70-130	2g,L1
tert-Butyl Formate	ug/L	400	ND	3	70-130	2g,L2
Toluene	ug/L	50	49.4	99	70-130	
Xylene (Total)	ug/L	150	151	101	70-130	
1,2-Dichloroethane-d4 (S)	%			95	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			101	70-130	

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(704)875-9092

QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563908 2563909

Parameter	Units	92426875028 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	2500	2500	2660	2730	106	109	70-130	3	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	50000	50000	39100	41300	78	83	70-130	5	30	
Benzene	ug/L	12000	2500	2500	15400	17300	135	214	70-130	12	30	M1
Diisopropyl ether	ug/L	ND	2500	2500	2850	2940	103	106	70-130	3	30	
Ethanol	ug/L	ND	100000	100000	96800	103000	97	103	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	5000	5000	5420	5580	108	112	70-130	3	30	
Ethylbenzene	ug/L	1180	2500	2500	3840	4580	106	136	70-130	18	30	M1
Methyl-tert-butyl ether	ug/L	ND	2500	2500	2680	2780	107	111	70-130	4	30	
Naphthalene	ug/L	ND	2500	2500	2580	2980	81	97	70-130	14	30	
tert-Amyl Alcohol	ug/L	ND	50000	50000	65200	68900	106	113	70-130	6	30	
tert-Amylmethyl ether	ug/L	ND	5000	5000	5800	5870	116	117	70-130	1	30	
tert-Butyl Alcohol	ug/L	ND	25000	25000	35000	37100	140	148	70-130	6	30	M0
tert-Butyl Formate	ug/L	ND	20000	20000	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	6080	2500	2500	8990	10800	116	191	70-130	19	30	M1
Xylene (Total)	ug/L	5300	7500	7500	13400	16700	108	152	70-130	22	30	MS
1,2-Dichloroethane-d4 (S)	%						93	93	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Toluene-d8 (S)	%						101	100	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472816 Analysis Method: EPA 8260B
QC Batch Method: EPA 8260B Analysis Description: 8260 MSV SC
Associated Lab Samples: 92426939035, 92426939040

METHOD BLANK: 2564798 Matrix: Water
Associated Lab Samples: 92426939035, 92426939040

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dichloroethane	ug/L	ND	5.0	2.1	05/02/19 10:42	
3,3-Dimethyl-1-Butanol	ug/L	ND	100	53.9	05/02/19 10:42	
Benzene	ug/L	ND	5.0	1.7	05/02/19 10:42	
Diisopropyl ether	ug/L	ND	5.0	3.5	05/02/19 10:42	
Ethanol	ug/L	ND	200	144	05/02/19 10:42	
Ethyl-tert-butyl ether	ug/L	ND	10.0	8.5	05/02/19 10:42	
Ethylbenzene	ug/L	ND	5.0	1.8	05/02/19 10:42	
Methyl-tert-butyl ether	ug/L	ND	5.0	3.1	05/02/19 10:42	
Naphthalene	ug/L	ND	5.0	2.1	05/02/19 10:42	
tert-Amyl Alcohol	ug/L	ND	100	65.6	05/02/19 10:42	
tert-Amylmethyl ether	ug/L	ND	10.0	3.0	05/02/19 10:42	
tert-Butyl Alcohol	ug/L	ND	100	91.0	05/02/19 10:42	
tert-Butyl Formate	ug/L	ND	50.0	24.1	05/02/19 10:42	
Toluene	ug/L	ND	5.0	2.0	05/02/19 10:42	
Xylene (Total)	ug/L	ND	5.0	5.0	05/02/19 10:42	
1,2-Dichloroethane-d4 (S)	%	93	70-130		05/02/19 10:42	
4-Bromofluorobenzene (S)	%	105	70-130		05/02/19 10:42	
Toluene-d8 (S)	%	100	70-130		05/02/19 10:42	

LABORATORY CONTROL SAMPLE: 2564799

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/L	50	42.9	86	70-130	
3,3-Dimethyl-1-Butanol	ug/L	1000	1050	105	70-130	
Benzene	ug/L	50	44.5	89	70-130	
Diisopropyl ether	ug/L	50	39.6	79	70-130	
Ethanol	ug/L	2000	1680	84	70-130	
Ethyl-tert-butyl ether	ug/L	100	80.7	81	70-130	
Ethylbenzene	ug/L	50	49.4	99	70-130	
Methyl-tert-butyl ether	ug/L	50	36.9	74	70-130	
Naphthalene	ug/L	50	53.5	107	70-130	
tert-Amyl Alcohol	ug/L	1000	1020	102	70-130	
tert-Amylmethyl ether	ug/L	100	94.1	94	70-130	
tert-Butyl Alcohol	ug/L	500	502	100	70-130	
tert-Butyl Formate	ug/L	400	ND	2	70-130	2g,L2
Toluene	ug/L	50	45.8	92	70-130	
Xylene (Total)	ug/L	150	148	99	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			98	70-130	
Toluene-d8 (S)	%			96	70-130	

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2564800 2564801

Parameter	Units	92426875039 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	400	400	391	395	98	99	70-130	1	30	
3,3-Dimethyl-1-Butanol	ug/L	ND	8000	8000	7650	8280	96	103	70-130	8	30	
Benzene	ug/L	2170	400	400	2640	2580	118	104	70-130	2	30	
Diisopropyl ether	ug/L	429	400	400	829	849	100	105	70-130	2	30	
Ethanol	ug/L	ND	16000	16000	13900	14800	87	92	70-130	6	30	
Ethyl-tert-butyl ether	ug/L	ND	800	800	708	728	88	91	70-130	3	30	
Ethylbenzene	ug/L	ND	400	400	429	425	107	106	70-130	1	30	
Methyl-tert-butyl ether	ug/L	996	400	400	1460	1470	116	118	70-130	0	30	
Naphthalene	ug/L	ND	400	400	377	392	94	98	70-130	4	30	
tert-Amyl Alcohol	ug/L	9780	8000	8000	17200	17600	93	98	70-130	2	30	
tert-Amylmethyl ether	ug/L	ND	800	800	815	813	102	102	70-130	0	30	
tert-Butyl Alcohol	ug/L	3660	4000	4000	6920	7350	82	92	70-130	6	30	
tert-Butyl Formate	ug/L	ND	3200	3200	ND	ND	0	0	70-130		30	P5
Toluene	ug/L	ND	400	400	427	413	107	103	70-130	3	30	
Xylene (Total)	ug/L	ND	1200	1200	1310	1320	109	110	70-130	1	30	
1,2-Dichloroethane-d4 (S)	%						99	102	70-130			
4-Bromofluorobenzene (S)	%						100	101	70-130			
Toluene-d8 (S)	%						97	96	70-130			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472338 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92426939001, 92426939002, 92426939003, 92426939004

METHOD BLANK: 2562544 Matrix: Water
Associated Lab Samples: 92426939001, 92426939002, 92426939003, 92426939004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	05/01/19 12:49	
1-Chloro-2-bromopropane (S)	%	111	60-140		05/01/19 12:49	

LABORATORY CONTROL SAMPLE & LCSD: 2562545 2562546

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.27	0.26	108	106	60-140	3	20	
1-Chloro-2-bromopropane (S)	%				102	100	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2562548 2562549

Parameter	Units	92426888008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.30	0.29	123	120	60-140	3	20	
1-Chloro-2-bromopropane (S)	%						106	103	60-140			

SAMPLE DUPLICATE: 2562547

Parameter	Units	92426888007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	101	100			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472524 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92426939005, 92426939006, 92426939007, 92426939008, 92426939009, 92426939010, 92426939011, 92426939012, 92426939013, 92426939014, 92426939015, 92426939016, 92426939017, 92426939018, 92426939019, 92426939020, 92426939021, 92426939022, 92426939023, 92426939024

METHOD BLANK: 2563272 Matrix: Water
Associated Lab Samples: 92426939005, 92426939006, 92426939007, 92426939008, 92426939009, 92426939010, 92426939011, 92426939012, 92426939013, 92426939014, 92426939015, 92426939016, 92426939017, 92426939018, 92426939019, 92426939020, 92426939021, 92426939022, 92426939023, 92426939024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	05/02/19 02:47	
1-Chloro-2-bromopropane (S)	%	113	60-140		05/02/19 02:47	

LABORATORY CONTROL SAMPLE & LCSD: 2563273 2563274

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	0.27	113	108	60-140	4	20	
1-Chloro-2-bromopropane (S)	%				109	103	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563276 2563277

Parameter	Units	92426939008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.25	0.25	ND	ND	0	0	60-140		20	M1
1-Chloro-2-bromopropane (S)	%						101	100	60-140			

SAMPLE DUPLICATE: 2563275

Parameter	Units	92426939007 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	ND		20	
1-Chloro-2-bromopropane (S)	%	107	101			

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QUALITY CONTROL DATA

Project: Westside Quick Stop
Pace Project No.: 92426939

QC Batch: 472526 Analysis Method: EPA 8011
QC Batch Method: EPA 8011 Analysis Description: GCS 8011 EDB DBCP
Associated Lab Samples: 92426939025, 92426939026, 92426939027, 92426939028, 92426939029, 92426939030, 92426939031, 92426939032, 92426939033, 92426939034, 92426939035, 92426939036, 92426939037, 92426939038, 92426939039, 92426939040, 92426939041, 92426939042, 92426939046

METHOD BLANK: 2563285 Matrix: Water
Associated Lab Samples: 92426939025, 92426939026, 92426939027, 92426939028, 92426939029, 92426939030, 92426939031, 92426939032, 92426939033, 92426939034, 92426939035, 92426939036, 92426939037, 92426939038, 92426939039, 92426939040, 92426939041, 92426939042, 92426939046

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	ND	0.020	0.011	05/01/19 18:17	
1-Chloro-2-bromopropane (S)	%	101	60-140		05/01/19 18:17	

LABORATORY CONTROL SAMPLE & LCSD: 2563286 2563287

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.25	0.29	0.28	116	112	60-140	2	20	
1-Chloro-2-bromopropane (S)	%				102	99	60-140			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2563289 2563290

Parameter	Units	92426939026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dibromoethane (EDB)	ug/L	ND	0.24	0.24	0.27	0.28	115	118	60-140	3	20	
1-Chloro-2-bromopropane (S)	%						102	103	60-140			

SAMPLE DUPLICATE: 2563288

Parameter	Units	92426939025 Result	Dup Result	RPD	Max RPD	Qualifiers
1,2-Dibromoethane (EDB)	ug/L	0.074	ND		20	
1-Chloro-2-bromopropane (S)	%	100	97			

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QUALIFIERS

Project: Westside Quick Stop
Pace Project No.: 92426939

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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TNI - The NELAC Institute.

LABORATORIES

PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

1g	Initial calibration evaluation met acceptance criteria. Compound did not meet additional accuracy assessment for percent error.
2g	Recovery failure due to spiking solution degradation. The initial/continuing calibration for this compound meets criteria and indicates acceptable instrument conditions to offer quantitative results
3g	Recovery failure due to spiking solution degradation. The initial/continuing calibration for this compound meets criteria and indicates acceptable instrument conditions to offer quantitative results.
L1	Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results for this analyte in associated samples may be biased high.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.
M0	Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
P5	The EPA or method required sample preservation degrades this compound, therefore acceptable recoveries may not be achieved in sample matrix spikes.
S3	Surrogate recovery exceeded laboratory control limits. Analyte presence below reporting limits in associated sample.

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QUALIFIERS

Project: Westside Quick Stop
Pace Project No.: 92426939

ANALYTE QUALIFIERS

S5 Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92426939001	**MW-2**	EPA 8011	472338	EPA 8011	472411
92426939002	**MW-3**	EPA 8011	472338	EPA 8011	472411
92426939003	**MW-4**	EPA 8011	472338	EPA 8011	472411
92426939004	**MW-4I**	EPA 8011	472338	EPA 8011	472411
92426939005	**MW-5**	EPA 8011	472524	EPA 8011	472687
92426939006	**MW-6**	EPA 8011	472524	EPA 8011	472687
92426939007	**MW-7**	EPA 8011	472524	EPA 8011	472687
92426939008	**MW-8**	EPA 8011	472524	EPA 8011	472687
92426939009	**MW-9**	EPA 8011	472524	EPA 8011	472687
92426939010	**MW-10**	EPA 8011	472524	EPA 8011	472687
92426939011	**MW-11**	EPA 8011	472524	EPA 8011	472687
92426939012	**MW-12**	EPA 8011	472524	EPA 8011	472687
92426939013	**MW-12I**	EPA 8011	472524	EPA 8011	472687
92426939014	**MW-14**	EPA 8011	472524	EPA 8011	472687
92426939015	**MW-14I**	EPA 8011	472524	EPA 8011	472687
92426939016	**MW-15**	EPA 8011	472524	EPA 8011	472687
92426939017	**MW-16**	EPA 8011	472524	EPA 8011	472687
92426939018	**MW-16I**	EPA 8011	472524	EPA 8011	472687
92426939019	**MW-17**	EPA 8011	472524	EPA 8011	472687
92426939020	**MW-17I**	EPA 8011	472524	EPA 8011	472687
92426939021	**MW-19**	EPA 8011	472524	EPA 8011	472687
92426939022	**MW-19I**	EPA 8011	472524	EPA 8011	472687
92426939023	**MW-20**	EPA 8011	472524	EPA 8011	472687
92426939024	**MW-21**	EPA 8011	472524	EPA 8011	472687
92426939025	**MW-22**	EPA 8011	472526	EPA 8011	472689
92426939026	**MW-22I**	EPA 8011	472526	EPA 8011	472689
92426939027	**MW-23**	EPA 8011	472526	EPA 8011	472689
92426939028	**MW-23I**	EPA 8011	472526	EPA 8011	472689
92426939029	**MW-25**	EPA 8011	472526	EPA 8011	472689
92426939030	**MW-26**	EPA 8011	472526	EPA 8011	472689
92426939031	**MW-26I**	EPA 8011	472526	EPA 8011	472689
92426939032	**MW-27**	EPA 8011	472526	EPA 8011	472689
92426939033	**MW-27I**	EPA 8011	472526	EPA 8011	472689
92426939034	**MW-28**	EPA 8011	472526	EPA 8011	472689
92426939035	**MW-X**	EPA 8011	472526	EPA 8011	472689
92426939036	**MW-XR**	EPA 8011	472526	EPA 8011	472689
92426939037	**RW-02**	EPA 8011	472526	EPA 8011	472689
92426939038	**RW-03**	EPA 8011	472526	EPA 8011	472689
92426939039	**DUP-A**	EPA 8011	472526	EPA 8011	472689
92426939040	**DUP-B**	EPA 8011	472526	EPA 8011	472689
92426939041	**FB-01**	EPA 8011	472526	EPA 8011	472689
92426939042	**FB-02**	EPA 8011	472526	EPA 8011	472689
92426939046	**MW-15I**	EPA 8011	472526	EPA 8011	472689
92426939001	**MW-2**	EPA 8260B	472394		
92426939002	**MW-3**	EPA 8260B	472389		
92426939003	**MW-4**	EPA 8260B	472394		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92426939004	MW-4I	EPA 8260B	472425		
92426939005	MW-5	EPA 8260B	472296		
92426939006	MW-6	EPA 8260B	472296		
92426939007	MW-7	EPA 8260B	472296		
92426939008	MW-8	EPA 8260B	472296		
92426939009	MW-9	EPA 8260B	472296		
92426939010	MW-10	EPA 8260B	472425		
92426939011	MW-11	EPA 8260B	472425		
92426939012	MW-12	EPA 8260B	472425		
92426939013	MW-12I	EPA 8260B	472425		
92426939014	MW-14	EPA 8260B	472425		
92426939015	MW-14I	EPA 8260B	472425		
92426939016	MW-15	EPA 8260B	472425		
92426939017	MW-16	EPA 8260B	472425		
92426939018	MW-16I	EPA 8260B	472425		
92426939019	MW-17	EPA 8260B	472425		
92426939020	MW-17I	EPA 8260B	472425		
92426939021	MW-19	EPA 8260B	472652		
92426939022	MW-19I	EPA 8260B	472652		
92426939023	MW-20	EPA 8260B	472425		
92426939024	MW-21	EPA 8260B	472425		
92426939025	MW-22	EPA 8260B	472425		
92426939026	MW-22I	EPA 8260B	472425		
92426939027	MW-23	EPA 8260B	472425		
92426939028	MW-23I	EPA 8260B	472652		
92426939029	MW-25	EPA 8260B	472652		
92426939030	MW-26	EPA 8260B	472426		
92426939031	MW-26I	EPA 8260B	472426		
92426939032	MW-27	EPA 8260B	472426		
92426939033	MW-27I	EPA 8260B	472458		
92426939034	MW-28	EPA 8260B	472458		
92426939035	MW-X	EPA 8260B	472816		
92426939036	MW-XR	EPA 8260B	472458		
92426939037	RW-02	EPA 8260B	472652		
92426939038	RW-03	EPA 8260B	472652		
92426939039	DUP-A	EPA 8260B	472652		
92426939040	DUP-B	EPA 8260B	472816		
92426939041	FB-01	EPA 8260B	472458		
92426939042	FB-02	EPA 8260B	472458		
92426939043	TB-01	EPA 8260B	472458		
92426939044	TB-02	EPA 8260B	472458		
92426939045	TB-03	EPA 8260B	472458		
92426939046	MW-15I	EPA 8260B	472458		

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Westside Quick Stop
Pace Project No.: 92426939

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch

This report shall not be reproduced, except in full,
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Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☑ Raleigh ☐ Mechanicsville ☐

Sample Condition Upon Receipt

Client Name: PetraTech

Project #: WO# : 92426939

92426939

Courier: ☐ Commercial ☑ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MVJ 4-26-14

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 92T048 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp (°C): 3.1 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): _____

Temp should be above freezing to 6°C
☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☑ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: WT	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☑ No	☐ N/A	10.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	11.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: TR **Date:** 4/29

Project Manager SRF Review: TR **Date:** 4/29

Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO# : 92426939**

PM: PTE Due Date: 05/02/19

CLIENT: 92-Petra-Tec

Pg 1

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical®	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: February 7, 2018 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.06	Issuing Authority: Pace Carolinas Quality Office

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO# : 92426939**

PM: PTE Due Date: 05/02/19

CLIENT: 92-Petra-Tec

Pg 2

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project # **WO#: 92426939**

PM: PTE Due Date: 05/02/19

CLIENT: 92-Petra-Tec

P 2 3

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottle**

Project **WO# : 92426939**

PM: PTE Due Date: 05/02/19

CLIENT: 92-Petra-Tec

Pg 4

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 4

Section A Required Client Information:

Company:	Petra-Tech Environmental, LLC
Address:	2435 East North Street, STE 1108-202
	Greenville, South Carolina 29615
Email To:	tslack@petratechenv.com
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	West Side Quick Stop
Project Number:	12430

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 8260B BTEX+M+N	8260 BTEXMN12-DCA8o	8011 EDB	6010 Lead	8270 PAHs	TPH-GRO	TPH-DRO	Grain Size With Hydro	TOC	524.2 BTEXMN12-DCA	8260B 8-Oxy	504.1 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D. 92426939
1	MW-2			4/23/19			1710		6											✓	✓											-001
2	MW-3						1220																									-002
3	MW-4						1950																									-003
4	MW-4I			↓			1925																									-004
5	MW-5			4/22/19			1745																									-005
6	MW-6						1415																									-006
7	MW-7						1950																									-007
8	MW-8						1850																									-008
9	MW-9						1815																									-009
10	MW-10						1115																									-010
11	MW-11						1145																									-011
12	MW-12			4/23/19			1645		↓																							-012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Tyler Kassing	4-25-19	1210		4-25-19	1210	
		4-25-19	1455		4-25-19	1455	3/2.8 2.9

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
3/2.8 2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Kassing

SIGNATURE of SAMPLER: Tyler Kassing DATE Signed (MM/DD/YY): 04/24/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 2 of 4

Section A Required Client Information:

Company:	Petra-Tech Environmental, LLC
Address:	2435 East North Street, STE 1108-202
	Greenville, South Carolina 29615
Email To:	tslack@petratechenv.com
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	Westside Quick Stop
Project Number:	12430

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: 8260B BTEX+M+N	8260 BTEXMN12-DCA80	8011 EDB	6010 Lead	8270 PAHs	TPH-GRO	TPH-DRO	Grain Size With Hydro	TOC	524.2 BTEXMN12-DCA	8260B 8-Oxy	504.1 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-12I			4/23/19			1615		5																							-013
2	MW-14			4/22/19			1440																									-014
3	MW-14I						1520																									-015
4	MW-15						1550																									-016
5	MW-15I						1625																									~~-017~~ -046
6	MW-16						1645																									~~-018~~ -017
7	MW-16I						1710																									-018
8	MW-17						1305																									-019
9	MW-17I			↓			1350																									-020
10	MW-19			4/23/19			1035																									-021
11	MW-19I						1000																									-022
12	MW-20			↓			0940		↓													↓	↓									-023

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Tyler Kassing	4.25.19	1210		4.25.19	1210				
		4.25.19	1455		4.25.19	1455	2/2.8/2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Kassing

SIGNATURE of SAMPLER: Tyler Kassing

DATE Signed (MM/DD/YY): 04/24/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 3 of 4

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Petra-Tech Environmental, LLC	Report To:		Attention:	
Address:	2435 East North Street, STE 1108-202	Copy To:		Company Name:	
	Greenville, South Carolina 29615			Address:	
Email To:	tslack@petratechenv.com	Purchase Order No.:		Pace Quote Reference:	
Phone:	Fax:	Project Name:	Westside Quick Stop	Pace Project Manager:	
Requested Due Date/TAT:		Project Number:	12430	Pace Profile #:	

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☑ UST ☐ RCRA ☐ OTHER

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	8260B BTEX+M+N	8260 BTEXMN12-DCA8o3	8011 EDB	6010 Lead	8270 PAHs	TPH-GRO	TPH-DRO	Grain Size With Hydro	TOC	524.2 BTEXMN12-DCA	8260B 8-Oxy	504.1 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	MW-21			4/17/19			1540		5											✓	✓									-024
2	MW-22						1805																							-025
3	MW-22I						1740																							-026
4	MW-23						1150																							-027
5	MW-23I						1125																							-028
6	MW-25						1310																							-029
7	MW-26						1840																							-030
8	MW-26I						1825																							-031
9	MW-27						0830																							-032
10	MW-27I						0910																							-033
11	MW-28			4/22/19			1925																							-034
12	MW-X			4/23/19			1340		✓												✓	✓								-035

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Tyler Kassing	4.25.19	1210		4-25-19	1210				
		4.25.19	1455		4-25-19	1455	2.8 2.9	Y	~	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Kassing

SIGNATURE of SAMPLER: Tyler Kassing DATE Signed (MM/DD/YY): 04/24/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical
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Page: 4 of 4

Section A Required Client Information:

Company:	Petra-Tech Environmental, LLC
Address:	2435 East North Street, STE 1108-202
	Greenville, South Carolina 29615
Email To:	tslack@petratechenv.com
Phone:	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	
Copy To:	
Purchase Order No.:	
Project Name:	West Side Quick Stop
Project Number:	12430

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☑ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: SC

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other
1	MW-XR			4/22/19			1410		5								
2	RW-02						1440										
3	RW-03						1520										
4	DUP-A						0945										
5	DUP-B						1445										
6	FB-01			4/22/19			1230										
7	FB-02			4/23/19			1425										
8	TB-01								2								
9	TB-02								2								
10	TB-03								2								
11																	
12																	

Requested Analysis Filtered (Y/N)

Y/N	Analysis Test	8260B BTEX+M+N	8260 BTEXMN12-DCA8o2	8011 EDB	6010 Lead	8270 PAHs	TPH-GRO	TPH-DRO	Grain Size With Hydro	TOC	524.2 BTEXMN12-DCA	8260B 8-Oxy	504.1 EDB	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			✓	✓											-036
			✓	✓											-037
			✓	✓											-038
			✓	✓											-039
			✓	✓											-040
			✓	✓											-041
			✓	✓											-042
			✓												-043
			✓												-044
			✓												-045

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	Tyler Slack	4.25.19	1210	Stacy Bell	4.25.19	1210
	Stacy Bell	4.25.19	1455	Jon Botang	4/25/19	1455

SAMPLE CONDITIONS			
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Tyler Klassing

SIGNATURE of SAMPLER: Tyler Klassing

DATE Signed (MM/DD/YY): 04/24/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.08, 12-Oct-2007

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX D

May 9, 2019

MR. MIKE WRIGHT
450 DOVE HILL CIRCLE
EASLEY, SC 29640

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

Dear property owner:

Please find enclosed a copy of the *Report of Groundwater Sampling April 2019* for your records. The report describes activities performed on behalf of UST Permit #12430 located at 821 West Parker Road in Greenville, Greenville County, South Carolina. The Assessment activities were performed in response to the South Carolina Department of Health and Environmental Control's Tier II directive letter dated January 29, 2019. The report is distributed to owners of properties where assessment activities may have been performed and to those who expressed interest in the assessment findings.

If you have any questions regarding the above mentioned assessment report, please do not hesitate to contact us or the South Carolina Department of Health and Environmental Control (SCDHEC) at:

SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

DAVID ESPINOZA & LESLIE GUERRA
2209 W BLUE RIDGE DRIVE
GREENVILLE, SC 29611

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

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SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

PAUL MCINTYRE
10 HOYT STREET
GREENVILLE, SC 29611

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

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SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

PATRICIA BOBEN
805 WEST PARKER ROAD
GREENVILLE, SC 29611

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

Dear property owner:

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SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

RTC REAL ESTATE II LLC
149 LAKE FOREST CIRCLE
EASLEY, SC 29642

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

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SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

MICHAEL POORE
149 LAKE FOREST CIRCLE
EASLEY, SC 29642

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

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SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

June 23, 2018

ANKUR PATEL
SHREE GAJVAKRA LLC
205 FAIRWAY DRIVE
LAURENS, SC 29360

Subject: **Report of Groundwater Sampling April 2019 – Abbreviated Copy**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J18-687-A

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SCDHEC – Mr. Adam Looper, Project Manager
Phone: 803.898.0631
Email: looperam@dhec.sc.gov

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX E

Contractor Checklist

For each report submitted to the UST Management Division, the contractor will be required to verify that all data elements for the required scope of work have been provided. For items not required for the scope of work, the N/A box should be checked. For items required and not completed or provided, the No box should be checked and a thorough description of the reason must be provided.

Item #	Item	Yes	No	N/A
1	Is Facility Name, Permit #, and address provided?	✓		
2	Is UST Owner/Operator name, address, & phone number provided?	✓		
3	Is name, address, & phone number of current property owner provided?	✓		
4	Is the DHEC Certified UST Site Rehabilitation Contractor's Name, Address, telephone number, and certification number provided?	✓		
5	Is the name, address, telephone number, and certification number of the well driller that installed borings/monitoring wells provided?	✓		
6	Is the name, address, telephone number, and certification number of the certified laboratory(ies) performing analytical analyses provided?	✓		
7	Has the facility history been summarized?	✓		
8	Has the regional geology and hydrogeology been described?			✓
9	Are the receptor survey results provided as required?			✓
10	Has current use of the site and adjacent land been described?			✓
11	Has the site-specific geology and hydrogeology been described?			✓
12	Has the primary soil type been described?			✓
13	Have field screening results been described?			✓
14	Has a description of the soil sample collection and preservation been detailed?			✓
15	Has the field screening methodology and procedure been detailed?			✓
16	Has the monitoring well installation and development dates been provided?			✓
17	Has the method of well development been detailed?			✓
18	Has justification been provided for the locations of the monitoring wells?			✓
19	Have the monitoring wells been labeled in accordance with the UST QAPP guidelines?	✓		
20	Has the groundwater sampling methodology been detailed?	✓		
21	Have the groundwater sampling dates and groundwater measurements been provided?	✓		
22	Has the purging methodology been detailed?	✓		
23	Has the volume of water purged from each well been provided along with measurements to verify that purging is complete?	✓		
24	If free-product is present, has the thickness been provided?	✓		
25	Does the report include a brief discussion of the assessment done and the results?	✓		
26	Does the report include a brief discussion of the aquifer evaluation and results?			✓
27	Does the report include a brief discussion of the fate & transport models used?			✓

Item #	Item	Yes	No	N/A
28	Are the site-conceptual model tables included? (Tier 1 Risk Evaluation)			✓
29	Have the exposure pathways been analyzed? (Tier 2 Risk Evaluation)			✓
30	Have the SSTLs for each compound and pathway been calculated? (Tier 2 Risk Evaluation)			✓
31	Have recommendations for further action been provided and explained?	✓		
32	Has the soil analytical data for the site been provided in tabular format? (Table 1)			✓
33	Has the potentiometric data for the site been provided in tabular format? (Table 2)	✓		
34	Has the current and historical laboratory data been provided in tabular format?	✓		
35	Have the aquifer characteristics been provided and summarized on the appropriate form?			✓
36	Have the Site conceptual model tables been included? (Tier 1 Risk Evaluation)			✓
37	Has the topographic map been provided with all required elements? (Figure 1)	✓		
38	Has the site base map been provided with all required elements? (Figure 2)	✓		
39	Have the CoC site maps been provided? (Figure 3 & Figure 4)	✓		
40	Has the site potentiometric map been provided? (Figure 5)	✓		
41	Have the geologic cross-sections been provided? (Figure 6)			✓
42	Have maps showing the predicted migration of the CoCs through time been provided? (Tier 2 Risk Evaluation)			✓
43	Has the site survey been provided and include all necessary elements? (Appendix A)			✓
44	Have the sampling logs, chain of custody forms, and the analytical data package been included with all required elements? (Appendix B)	✓		
45	Is the laboratory performing the analyses properly certified?	✓		
46	Has the tax map been included with all necessary elements? (Appendix C)			✓
47	Have the soil boring/field screening logs been provided? (Appendix D)			✓
48	Have the well completion logs, DHEC Form 2099, and DHEC Form 1903 been provided? (Appendix E)			✓
49	Have the aquifer evaluation forms, data, graphs, equations, etc. been provided? (Appendix F)			✓
50	Have the disposal manifests been provided? (Appendix G)	✓		
51	Has a copy of the local zoning regulations been provided? (Appendix H)			✓
52	Has all fate and transport modeling been provided? (Appendix I)			✓
53	Have copies of all access agreements obtained by the contractor been provided? (Appendix J)			✓
54	Has a copy of this form been attached to the final report and are explanations for any missing or incomplete data been provided?	✓		

Explanation for missing and incomplete information?

Project Verifier (signature) Mary K. Jones

(print name) Mary K. Jones

Date 05/09/2019

dhec
Healthy People Healthy Communities.

SEP 2 4 2019



WESTSIDE QUIK SHOP INC
821 W PARKER RD
GREENVILLE SC 29611

SHREE GAJVAKRA LLC
205 FAIRWAY DR
LAURENS SC 29360

Re: **Aggressive Fluid and Vapor Recovery (AFVR) Notice to Proceed**
Westside Quick Stop, 821 W Parker Rd, Greenville, SC
UST Permit #12430; Release 1 CA #60351; Release 2 CA #60352
Release #1 reported June 7, 2012
Release #2 reported October 23, 2012
Groundwater Monitoring Report received June 17, 2019
Greenville County

To Whom it May Concern:

The Underground Storage Tank (UST) Management Division of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the above referenced report which documents free-phase product (FPP) or Chemicals of Concern (COC) in the subsurface as a result of the above referenced release.

In accordance with Section 280.64 of the South Carolina Underground Storage Tank Control Regulations, an Aggressive Fluid and Vapor Recovery (AFVR) event may proceed immediately upon receipt of this letter as outlined in this directive and the current revision of the UST Quality Assurance Program Plan (QAPP). One 96-hour event utilizing monitoring wells MW-1, MW-24, and RW-1 should be performed. The stingers shall be lowered at six inch intervals starting at the water table interface to a target depth of 2 feet above the final depth of each well. **Please be aware that the AFVR Procedures have been updated.** Please advance to the target depth within the first eight (8) hours of the event. Thereafter, the stinger should be adjusted to achieve the highest vapor recovery while maintaining dewatering of the smear zone. Off-gas treatment will be necessary. A copy of the current revision of the DHEC QAPP for the Underground Storage Tank Division is available at https://scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

As soon as the beginning date of the event has been scheduled, please contact me at thomasma@dhec.sc.gov.

The AFVR Report should be submitted within 90 days from the date of this correspondence. Please note that all applicable South Carolina certification requirements apply to the services and report preparation. All site rehabilitation activities must be performed and submitted by a South Carolina Certified Underground Storage Tank Site Rehabilitation Contractor.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. By law, the SUPERB Account cannot compensate any costs that are not pre-approved. If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that the costs of this AFVR event will be split evenly between both releases.

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

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

On all correspondence concerning this site, please reference UST Permit #12430. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-2889, by fax at (803) 898-0673, or by e-mail at thomasma@dhec.sc.gov.

Sincerely,

Morgan Thomas

Morgan Thomas, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Environmental Laboratories Inc., PO Box 1729, Travelers Rest, SC 29690 (w/enc.)
Technical file (w/enc.)

Approved Cost Agreement 60351

Facility: 12430 WESTSIDE QUICK STOP
THOMASMA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$11,371.130	1,364.54
23 EFR						
		A4	96 HOUR EVENT	0.5000	$12,567.500	6,283.75
		C4	OFF GAS TREATMENT 96 HOUR	0.5000	$780.000	390.00
		D	SITE RECONNAISSANCE	0.5000	$203.250	101.63
		F1	EFFLUENT DISPOSAL	10,000.0000	$0.440	4,400.00
		G	AFVR EQUIPMENT MOB	0.5000	$391.500	195.75
				Total Amount		12,735.67

Approved Cost Agreement 60352

Facility: 12430 WESTSIDE QUICK STOP
THOMASMA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
19 RPT/PROJECT MNGT & COORDINATIO						
		PRT	REPORT PREPARATION	0.1200	$11,371.130	1,364.54
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		F1	EFFLUENT DISPOSAL	10,000.0000	$0.440	4,400.00
		G	AFVR EQUIPMENT MOB	0.5000	$391.500	195.75
				Total Amount		12,735.67

Document Receipt Information

☐ Hard Copy ☒ CD ☐ Email

Date Received 1-30-2020

Permit Number 12430

Project Manager Morgan Thomas

Name of Contractor Petra-Tech

UST Certification Number AFVR - MMPE Event

Docket Number 4Qtech

Scanned _____

REPORT OF LONG-TERM AFVR/MMPE EVENT

Westside Quick Stop
SCDHEC UST Permit #12430
821 West Parker Road
Greenville, South Carolina
Greenville County

Cost Agreement #60351 & 60352

PTE Job No. J19-812-A

January 28, 2020

petra-tech ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

SCDHEC Certified UST Contractor No. 436

Petra-Tech Environmental
2435 East North Street
Suite 1108-202
Greenville, SC 29615

www.petratechenv.com

January 28, 2020

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

Attention: Morgan Thomas
Hydrogeologist

Subject: **Report of Long-Term AFVR/MMPE Event**
Westside Quick stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430; CA#60351 & 60352
PTE Job No. J19-812-A

Dear Ms. Thomas:

Pursuant to the South Carolina Department of Health and Environmental Control's directive letter (Cost Agreement #60351 & 60352) dated September 24, 2019, Petra-Tech Environmental, LLC submits herein the results of the 96-hour long-term AFVR/MMPE event performed at the Westside Quick Stop site. This report is being submitted on behalf of Westside Quick Stop and Environmental Laboratories, Inc.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental

Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565



1.0 PROJECT INFORMATION

The subject property is located at 821 West Parker Road in Greenville, Greenville County, South Carolina (**Figure 1**) and currently operates as a retail petroleum fueling station and convenience store. According to the South Carolina Department of Health and Environmental Control Online Underground Storage Tank Registry database, three underground storage tanks (one 1,000-gallon kerosene and two 6,000-gallon regular gasoline) are currently in use at the site. Additionally, a 4,000-gallon super/premium gasoline underground storage tank is located at the site and is currently classified as extended-out-of-use. Two separate releases have been reported at the site.

The South Carolina Department of Health and Environmental Control issued an Aggressive Fluid Vapor Recovery directive letter for the subject site requiring the completion of one 96-hour long term AFVR/MMPE event utilizing wells 12430-MW01, 12430-MW24, and 12430-RW01. The results of the long-term AFVR/MMPE event are included herein.

2.0 LONG-TERM AFVR/MMPE EVENT SUMMARY – 12430-MW01, 12430-MW24, & 12430-RW01

A 96-hour long-term AFVR / MMPE event was completed at the subject site between Monday, January 13, 2020 and Friday, January 17, 2017. The 96-hour event was conducted on monitoring wells 12430-MW01 and 12430-MW24, and on recovery well 12430-RW01 (**Figure 2**). A geologist was on-site for initial event setup, and periodic observation and monitoring of the event throughout the week, and a field technician remained on-site throughout the event for monitoring and data collection. The long-term AFVR/MMPE event was performed using a Vermeer Ring-O-Matic 850 Super Deep Vacuum Unit equipped with a 28 horsepower diesel engine and Masport vacuum pump with 27-inches of mercury and 407 cubic feet per minute vacuum capabilities.

Prior to initiating the event, Petra-Tech Environmental staff gauged the wells using a Solinst® Interface Meter. 0.44-feet of free-phase petroleum product was detected in groundwater monitoring well 12430-MW01, 0.81-feet of free-phase petroleum product was detected in groundwater monitoring well 12430-MW24, and 2.19-feet of free-phase petroleum product was detected in groundwater recovery well 12430-RW01 prior to the AFVR event. The long-term AFVR/MMPE event was initiated at 1500 on Monday, January 13, 2020 and concluded at 1500 on Friday, January 17, 2017. The general weather conditions observed during this period of time were variable; with daily high temperatures ranging from 49º to 71º Fahrenheit and low temperatures ranging from 37º to 57º Fahrenheit. Wind speeds throughout the course of the event ranged from 0 to 16 miles per hour. 0.67-inches of rainfall was recorded on January 13, 2020, and 0.32-inches of rainfall was recorded on January 14, 2020.

Throughout the duration of the event, a continuous vacuum ranging from 21 to 23 inches of mercury was applied to monitoring wells 12430-MW01 and 12430-MW24, and to recovery well 12430-RW01. The extraction stinger was lowered at 6-inch intervals in the wells from the free-phase product / water table interface to a target depth of approximately 2-feet above the bottom of each wells screened interval within the first 8-hours of the event. Stinger depths were varied thereafter to maximize free-phase petroleum product and vapor recovery based on conditions observed in the field. Vacuum and field measurements recorded throughout the event are summarized in **Attachment A**. The vacuum in addition to depth-to-water was also measured in adjacent monitoring well 12430-MW25 and recovery well 12430-RW03 using magnahelic gauges and an interface probe to evaluate the vacuum's radius of influence. Radius of influence gauging data observed during the event is summarized in **Attachment A**.

Due to the close proximity of the site to places of public business, volatile air emissions were treated on-site utilizing a granulated activated carbon (GAC) unit. Influent and effluent vapor concentrations were measured throughout the event using a MiniRAE® Lite 3000 Photo Ionization Detector (PID). Air emissions pre-treatment and post-treatment concentrations are summarized in **Attachment A**.

3.0 RESULTS & RECOMMENDATIONS

A total volume of approximately 8,432 gallons of petroleum impacted liquid was recovered from the site during the 96-hour event conducted on groundwater monitoring wells 12430-MW01 and 12430-MW24, and on recovery well 12430-RW01. Of this amount, approximately 35 gallons was gauged as separated phase petroleum product. Waste transportation and disposal records for the petroleum impacted groundwater recovered during the events are provided in **Attachment B**.

A total of approximately 75.93 pounds of gasoline vapor which is equivalent to approximately 12.14 gallons of gasoline were calculated to have been recovered during the 96-hour long term AFVR/MMPE event on monitoring wells 12430-MW01 and 12430-MW24, and on recovery well 12430-RW01. The emissions ca lculations for the event are provided as **Attachment A**.

Based on the results of the current scope of work, the 96-Hour Aggressive Fluid Vapor Recovery event was effective in removing petroleum product as both free-phase and vapor phase, and continue to serve as a critical remedial measure in the removal of free-product at the site. Petra-Tech Environmental recommends a series of two additional 96-hour AFVR events at the site to continue free-phase petroleum product removal, followed by the completion of a comprehensive groundwater sampling event.

FIGURES



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

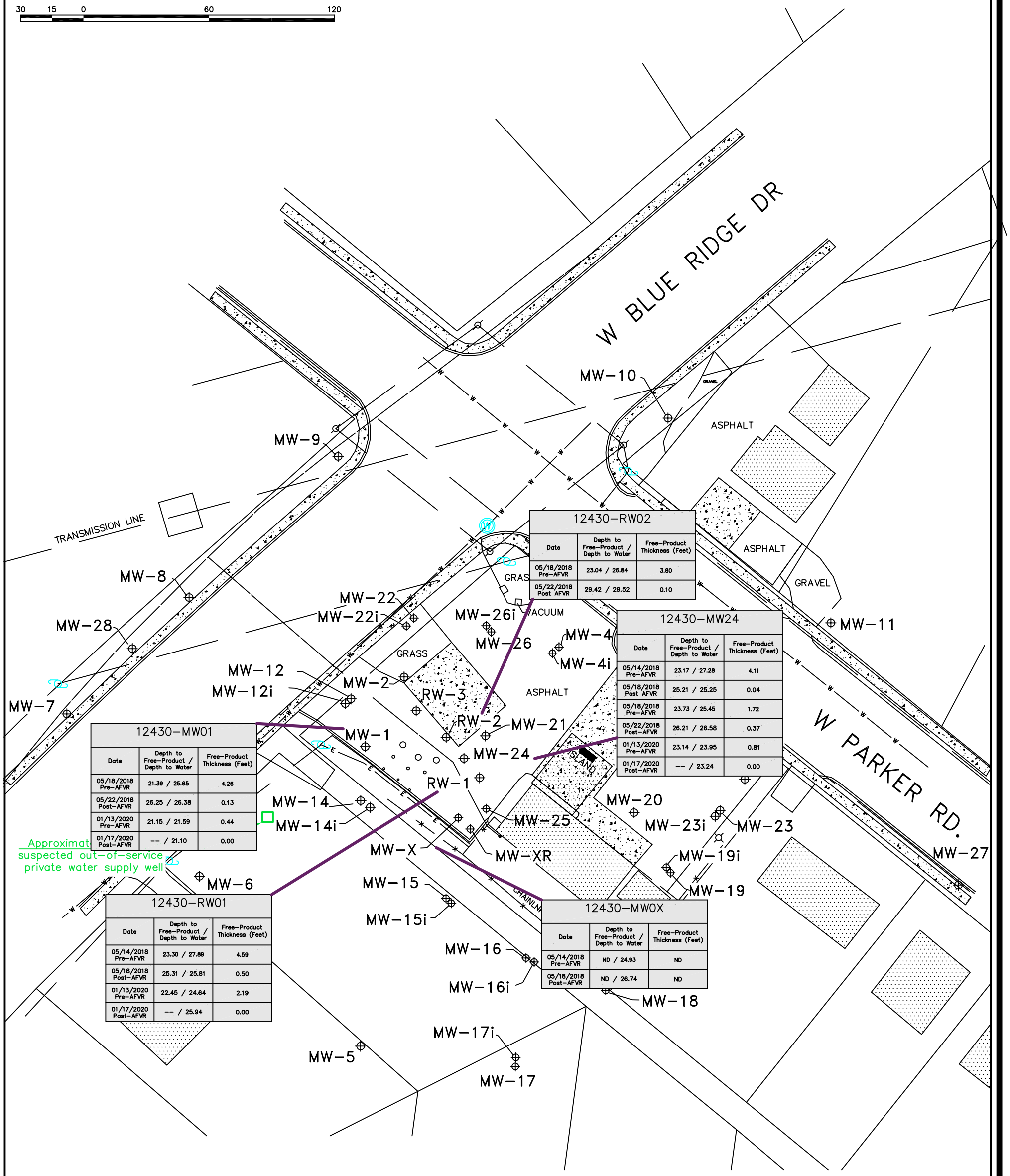
N

SITE

Title	Site Location Map		
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County		
Date	07/01/2016	petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 1
Job No.	J16-232-A		

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017

30 15 0 60 120



12430-RW02		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/18/2018 Pre-AFVR	23.04 / 26.84	3.80
05/22/2018 Post AFVR	29.42 / 29.52	0.10

12430-MW24		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/14/2018 Pre-AFVR	23.17 / 27.28	4.11
05/18/2018 Post AFVR	25.21 / 25.25	0.04
05/18/2018 Pre-AFVR	23.73 / 25.45	1.72
05/22/2018 Post-AFVR	26.21 / 26.58	0.37
01/13/2020 Pre-AFVR	23.14 / 23.95	0.81
01/17/2020 Post-AFVR	-- / 23.24	0.00

12430-MW01		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/18/2018 Pre-AFVR	21.39 / 25.65	4.26
05/22/2018 Post-AFVR	26.25 / 26.38	0.13
01/13/2020 Pre-AFVR	21.15 / 21.59	0.44
01/17/2020 Post-AFVR	-- / 21.10	0.00

12430-RW01		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/14/2018 Pre-AFVR	23.30 / 27.89	4.59
05/18/2018 Post-AFVR	25.31 / 25.81	0.50
01/13/2020 Pre-AFVR	22.45 / 24.64	2.19
01/17/2020 Post-AFVR	-- / 25.94	0.00

12430-MW0X		
Date	Depth to Free-Product / Depth to Water	Free-Product Thickness (Feet)
05/14/2018 Pre-AFVR	ND / 24.93	ND
05/18/2018 Post-AFVR	ND / 26.74	ND

Groundwater Monitoring Well

N

Title	Well Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	01/28/2020
Job No.	J19-812-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2

WESTSIDE QUICK STOP – UST PERMIT #12430
LONG-TERM AFVR/MMPE EVENT

ATTACHMENT A

AFVR / MMPE Field Measurements & Emissions Calculations

Westside Quick Stop - UST Permit #12430

12430-MW01, 12430-MW24, & 12430-RW01

		Extraction Wells						Radius of Influence Monitoring				Emissions Field Measurements								Emission Calculations								
		MW01		MW24		RW01		MW25		RW03		System Vacuum	Effluent Velocity	Pipe Diameter	Effluent Temp.	Relative Humidity	Vapor Conc. Pre-Treatment	Vapor Conc. Post Treatment	Elapsed Time	Q_{std}	PPM_d	PPM_c	K	C_{cm}	C_c	PMR_c	PMR_g	PMR_g
Date	Time	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Vacuum (in. H2O)	Depth to Water (ft BTOC)	Vacuum (in. H2O)	Depth to Water (ft BTOC)	(in. HG)	(ft/min)	(in)	(F)	(%)	(ppm)	(ppm)	(hours)	(DSCFM)				(mg/dsm3)	(lb/dscf)	(lb/hr)	(lb/hr)	(gal/hr)
1/13/2020	1500	22.0	10.5	24.0	18.5	25.0	19.0	0.0	23.51	0.0	22.06	21.0	2,026	2	201.2	25.6	1964	20.3	0.0	23.89	2,902.18	11,608.71	4	5,792.30	3.62E-04	0.5183	0.5998	0.0960
	1530	22.5	10.5	24.5	19.0	25.5	19.0	0.0	23.56	0.0	22.08	21.0	2,016	2	203.3	27.5	1998	19.4	0.5	23.69	2,952.42	11,809.67	4	5,892.57	3.68E-04	0.5230	0.6052	0.0968
	1600	23.0	10.5	25.0	19.0	26.0	19.0	0.0	23.61	0.0	22.10	21.0	2,079	2	206.0	27.9	2014	21.6	1.0	24.33	2,976.06	11,904.25	4	5,939.76	3.71E-04	0.5414	0.6266	0.1003
	1630	23.5	10.5	25.5	19.0	26.5	19.5	0.0	23.60	0.0	22.10	21.0	2,090	2	208.3	26.1	2031	21.2	1.5	24.38	3,001.18	12,004.73	4	5,989.90	3.74E-04	0.5470	0.6330	0.1013
	1700	24.0	10.0	26.0	20.0	27.0	19.0	0.0	23.60	0.0	22.10	21.0	2,109	2	212.1	28.3	2252	21.9	2.0	24.46	3,327.75	13,311.00	4	6,641.68	4.15E-04	0.6086	0.7043	0.1127
	1730	24.5	10.0	26.5	19.5	27.5	19.0	0.0	23.62	0.0	22.11	21.0	2,151	2	214.8	27.9	2279	20.3	2.5	24.85	3,367.65	13,470.59	4	6,721.31	4.20E-04	0.6256	0.7240	0.1158
	1800	25.0	10.5	27.0	20.0	28.0	19.5	0.0	23.64	0.0	22.13	22.0	2,184	2	217.2	27.4	2404	22.6	3.0	25.14	3,552.36	14,209.44	4	7,089.96	4.43E-04	0.6677	0.7727	0.1236
	1830	25.5	11.0	27.5	20.0	28.5	20.0	0.0	23.66	0.0	22.15	22.0	2,149	2	215.8	30.1	2519	21.2	3.5	24.79	3,722.29	14,889.17	4	7,429.12	4.64E-04	0.6898	0.7983	0.1277
	1900	26.0	11.0	28.0	20.0	29.0	20.0	0.0	23.63	0.0	22.15	22.0	2,202	2	212.5	31.2	2732	23.6	4.0	25.52	4,037.04	16,148.16	4	8,057.31	5.03E-04	0.7704	0.8916	0.1426
	1930	26.5	10.5	28.5	19.5	29.5	19.5	0.0	23.61	0.0	22.16	22.0	2,246	2	214.1	32.3	2681	24.3	4.5	25.97	3,961.68	15,846.71	4	7,906.90	4.94E-04	0.7693	0.8903	0.1424
	2000	27.0	10.0	29.0	19.0	30.0	19.5	0.0	23.58	0.0	22.17	21.0	2,319	2	213.6	33.6	2699	23.8	5.0	26.84	3,988.28	15,953.11	4	7,959.98	4.97E-04	0.8002	0.9261	0.1482
	2030	27.5	10.0	29.5	19.5	30.5	19.0	0.0	23.58	0.0	22.16	21.0	2,251	2	212.1	31.2	2417	22.6	5.5	26.11	3,571.57	14,286.28	4	7,128.30	4.45E-04	0.6971	0.8068	0.1291
	2100	28.0	10.5	30.0	19.5	31.0	19.0	0.0	23.57	0.0	22.15	21.0	2,192	2	211.9	28.6	2381	21.9	6.0	25.43	3,518.37	14,073.49	4	7,022.13	4.38E-04	0.6689	0.7742	0.1239
	2130	28.0	10.5	30.5	20.0	31.5	19.5	0.0	23.56	0.0	22.15	21.0	2,208	2	212.3	27.1	2341	22.1	6.5	25.60	3,459.27	13,837.06	4	6,904.16	4.31E-04	0.6621	0.7663	0.1226
	2200	27.5	10.5	31.0	20.0	32.0	19.5	0.0	23.55	0.0	22.16	22.0	2,269	2	214.2	25.9	2312	22.3	7.0	26.24	3,416.41	13,665.65	4	6,818.63	4.26E-04	0.6701	0.7755	0.1241
	2230	27.0	11.0	31.5	20.0	32.5	20.0	0.0	23.55	0.0	22.15	22.0	2,273	2	215.1	24.3	2309	22.9	7.5	26.25	3,411.98	13,647.92	4	6,809.78	4.25E-04	0.6695	0.7748	0.1240
	2300	26.5	11.0	32.0	20.0	33.0	20.0	0.0	23.55	0.0	22.16	22.0	2,281	2	216.3	22.6	2298	23.6	8.0	26.29	3,395.72	13,582.90	4	6,777.34	4.23E-04	0.6675	0.7725	0.1236
	2330	26.5	11.0	32.0	20.0	33.0	20.0	0.0	23.55	0.0	22.16	23.0	2,281	2	216.3	22.6	2298	23.6	8.5	26.29	3,395.72	13,582.90	4	6,777.34	4.23E-04	0.6675	0.7725	0.1236
	2400	26.0	11.5	32.0	20.5	33.0	20.0	0.0	23.53	0.0	22.16	23.0	2,362	2	213.6	23.3	2358	21.8	9.0	27.33	3,484.39	13,937.54	4	6,954.30	4.34E-04	0.7121	0.8241	0.1319
No readings recorded between 2400 and 0800																												
1/14/2020	0800	26.0	11.5	32.0	19.5	33.0	20.5	0.0	23.62	0.0	21.96	21.0	2,243	2	180.4	30.6	2062	16.7	17.0	27.30	3,046.99	12,187.96	4	6,081.32	3.80E-04	0.6220	0.7198	0.1152
	0900	27.0	12.0	29.0	20.0	30.0	20.0	0.0	23.58	0.0	21.96	21.0	2,290	2	186.8	29.8	2048	21.8	18.0	27.60	3,026.30	12,105.21	4	6,040.03	3.77E-04	0.6244	0.7227	0.1156
	1000	26.0	12.0	28.0	20.0	29.0	20.5	0.0	23.55	0.0	21.95	21.0	2,306	2	192.1	27.2	2093	18.7	19.0	27.57	3,092.80	12,371.19	4	6,172.75	3.85E-04	0.6374	0.7377	0.1180
	1100	25.0	12.0	27.0	19.5	28.0	20.5	0.0	23.51	0.0	21.95	21.0	2,230	2	196.8	28.3	2186	19.3	20.0	26.47	3,230.22	12,920.89	4	6,447.03	4.02E-04	0.6392	0.7397	0.1184
	1200	25.0	11.5	27.0	19.5	28.0	20.0	0.0	23.49	0.0	21.96	21.0	2,168	2	197.1	29.4	2014	24.9	21.0	25.72	2,976.06	11,904.25	4	5,939.76	3.71E-04	0.5722	0.6623	0.1060
	1300	26.0	12.0	28.0	20.0	29.0	20.5	0.0	23.45	0.0	21.96	22.0	2,217	2	200.1	28.9	2173	23.8	22.0	26.18	3,211.01	12,844.05	4	6,408.69	4.00E-04	0.6285	0.7274	0.1164
	1400	27.0	12.0	29.0	19.5	30.0	20.0	0.0	23.41	0.0	21.98	22.0	2,186	2	203.8	27.8	2204	15.1	23.0	25.67	3,256.82	13,027.29	4	6,500.11	4.06E-04	0.6251	0.7234	0.1157
	1500	27.0	12.5	29.0	20.0	30.0	20.0	0.0	23.41	0.0	21.97	22.0	2,142	2	204.6	26.2	2150	17.6	24.0	25.12	3,177.03	12,708.11	4	6,340.85	3.96E-04	0.5967	0.6906	0.1105
	1600	27.0	12.5	29.0	20.0	30.0	20.0	0.0	23.41	0.0	21.95	22.0	2,194	2	209.4	26.7	2648	16.5	25.0	25.55	3,912.91	15,651.66	4	7,809.57	4.88E-04	0.7474	0.8650	0.1384
	1700	26.0	12.0	28.0	20.0	29.0	20.5	0.0	23.45	0.0	21.94	22.0	2,231	2	206.1	29.8	2182	18.3	26.0	26.11	3,224.31	12,897.25	4	6,435.23	4.02E-04	0.6294	0.7284	0.1165
	1800	26.0	11.0	28.0	19.0	29.0	20.5	0.0	23.48	0.0	21.93	22.0	2,674	2	206.5	31.5	2364	15.3	27.0	31.28	3,493.25	13,973.01	4	6,971.99	4.35E-04	0.8168	0.9453	0.1512
	1900	26.0	10.5	28.0	19.0	29.0	19.5	0.0	23.43	0.0	21.92	22.0	2,191	2	208.1	27.6	2261	19.8	28.0	25.56	3,341.05	13,364.20	4	6,668.22	4.16E-04	0.6385	0.7390	0.1182
	2000	25.0	10.5	28.0	19.0	29.0	19.5	0.0	23.39	0.0	21.92	23.0	2,648	2	209.4	29.5	2537	20.1	29.0	30.84	3,748.89	14,995.57	4	7,482.21	4.67E-04	0.8643	1.0002	0.1600
	2100	25.0	10.0	27.0	18.5	28.0	19.0	0.0	23.39	0.0	21.93	23.0	2,172	2	210.3	26.3	2306	21.6	30.0	25.26	3,407.55	13,630.18	4	6,800.94	4.25E-04	0.6435	0.7447	0.1192
	2200	25.0	10.0	27.0	18.5	28.0	19.0	0.0	23.40	0.0	21.94	23.0	2,385	2	213.6	26.8	2394	18.6	31.0	27.60	3,537.58	14,150.33	4	7,060.47	4.41E-04	0.7300	0.8448	0.1352
	2300	25.0	10.5	27.0	18.0	28.0	18.0	0.0	23.41	0.0	21.95	22.0	2,254	2	211.6	31.7	2471	23.1	32.0	26.16	3,651.36	14,605.46	4	7,287.56	4.55E-04	0.7142	0.8265	0.1322
	2400	25.0	10.5	27.0	18.0	28.0	18.0	0.0	23.43	0.0	21.96	23.0	2,946	2	219.4	29.6	2584	23.6	33.0	33.80	3,818.34	15,273.37	4	7,620.82	4.76E-04	0.9649	1.1167	0.1787
No readings recorded between 2400 and 0800																												

		Extraction Wells						Radius of Influence Monitoring				Emissions Field Measurements								Emission Calculations								
		MW01		MW24		RW01		MW25		RW03																		
Date	Time	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Stinger Depth (feet)	Vacuum (in. HG)	Vacuum (in. H2O)	Depth to Water (ft BTOC)	Vacuum (in. H2O)	Depth to Water (ft BTOC)	System Vacuum (in. HG)	Effluent Velocity (ft/min)	Pipe Diameter (in)	Effluent Temp. (F)	Relative Humidity (%)	Vapor Conc. Pre-Treatment (ppm)	Vapor Conc. Post Treatment (ppm)	Elapsed Time (hours)	Q_{std} (DSCFM)	PPM_d	PPM_c	K	C_{cm} (mg/dsm3)	C_c (lb/dscf)	PMR_c (lb/hr)	PMR_g (lb/hr)	PMR_g (gal/hr)
1/15/2020	0800	25.0	11.0	27.0	18.0	28.0	19.0	0.0	23.73	0.0	21.92	23.0	2,216	2	185.4	31.7	2,482	29.3	41.0	26.77	3,667.62	14,670.48	4	7,320.00	4.57E-04	0.7339	0.8493	0.1359
	1000	25.0	11.0	27.0	18.5	28.0	19.0	0.0	23.75	0.0	21.92	23.0	2,482	2	190.3	30.3	2,439	24.6	43.0	29.75	3,604.08	14,416.31	4	7,193.18	4.49E-04	0.8017	0.9278	0.1484
	1200	25.0	11.0	27.0	18.0	28.0	19.0	0.0	23.76	0.0	21.89	23.0	2,286	2	196.8	26.9	2,506	28.7	45.0	27.13	3,703.08	14,812.33	4	7,390.78	4.61E-04	0.7511	0.8693	0.1391
	1400	25.0	12.0	27.0	20.0	28.0	19.5	0.0	23.76	0.0	21.86	22.0	2,196	2	200.4	27.6	2,446	21.8	47.0	25.92	3,614.42	14,457.69	4	7,213.83	4.50E-04	0.7004	0.8106	0.1297
	1600	25.0	12.0	27.0	20.0	28.0	19.0	0.0	23.61	0.0	21.83	22.0	2,218	2	206.3	29.3	2,562	22.6	49.0	25.95	3,785.83	15,143.34	4	7,555.94	4.72E-04	0.7345	0.8500	0.1360
	1800	25.0	11.5	27.0	19.5	28.0	19.0	0.0	23.45	0.0	21.82	22.0	2,261	2	203.2	30.3	2,530	21.9	51.0	26.58	3,738.55	14,954.19	4	7,461.56	4.66E-04	0.7428	0.8596	0.1375
	2000	26.0	11.5	27.0	19.5	28.0	19.5	0.0	23.39	0.0	21.81	21.0	2,183	2	204.1	29.6	2,484	22.3	53.0	25.62	3,670.57	14,682.30	4	7,325.90	4.57E-04	0.7032	0.8138	0.1302
	2200	26.0	12.0	27.0	20.5	28.0	20.0	0.0	23.34	0.0	21.79	21.0	2,152	2	201.2	30.1	2,566	20.8	55.0	25.37	3,791.74	15,166.98	4	7,567.74	4.72E-04	0.7192	0.8324	0.1332
	2400	26.0	12.5	27.0	21.0	28.0	20.5	0.0	23.26	0.0	21.77	21.0	2,216	2	198.3	30.4	2,608	21.4	57.0	26.24	3,853.81	15,415.23	4	7,691.60	4.80E-04	0.7560	0.8750	0.1400
No readings recorded between 2400 and 0800																												
1/16/2020	0800	26.0	11.5	27.0	19.0	28.0	19.5	0.0	23.25	0.0	21.75	21.0	2,207	2	186.7	31.7	2,397	21.7	65.0	26.60	3,542.02	14,168.06	4	7,069.32	4.41E-04	0.7045	0.8153	0.1304
	1000	26.0	11.0	27.0	19.0	28.0	19.0	0.0	23.25	0.0	21.76	21.0	2,258	2	189.0	29.9	2,302	17.8	67.0	27.12	3,401.64	13,606.54	4	6,789.14	4.24E-04	0.6897	0.7982	0.1277
	1200	27.0	11.0	28.0	18.5	29.0	19.0	0.0	23.26	0.0	21.77	21.0	2,341	2	188.9	30.9	2,373	26.7	69.0	28.12	3,506.55	14,026.20	4	6,998.53	4.37E-04	0.7372	0.8532	0.1365
	1400	27.0	9.0	28.0	6.5	29.0	6.5	0.0	23.30	0.0	21.80	21.0	2,196	2	190.6	29.8	2,406	21.8	71.0	26.31	3,555.31	14,221.26	4	7,095.86	4.43E-04	0.6994	0.8094	0.1295
	1600	26.0	9.5	27.0	6.5	28.0	6.5	0.0	23.47	0.0	21.82	21.0	2,148	2	189.7	30.1	2,293	22.7	73.0	25.77	3,388.34	13,553.34	4	6,762.60	4.22E-04	0.6529	0.7556	0.1209
	1800	26.0	9.5	27.0	7.0	28.0	9.0	0.0	23.68	0.0	21.89	21.0	2,273	2	186.2	28.6	2,431	21.9	75.0	27.42	3,592.26	14,369.03	4	7,169.59	4.48E-04	0.7364	0.8522	0.1364
	2000	26.0	8.5	27.0	8.0	28.0	9.0	0.0	23.81	0.0	21.92	21.0	2,381	2	183.9	28.3	2,482	22.6	77.0	28.83	3,667.62	14,670.48	4	7,320.00	4.57E-04	0.7904	0.9147	0.1464
	2200	25.0	8.5	27.0	8.5	29.0	9.5	0.0	23.86	0.0	21.96	21.0	2,956	2	180.8	26.9	2,519	23.2	79.0	35.96	3,722.29	14,889.17	4	7,429.12	4.64E-04	1.0007	1.1581	0.1853
	2400	25.0	9.0	27.0	9.5	29.0	10.0	0.0	23.90	0.0	22.00	21.0	2,492	2	178.1	26.3	2,552	22.3	81.0	30.44	3,771.06	15,084.23	4	7,526.45	4.70E-04	0.8583	0.9933	0.1589
No readings recorded between 2400 and 0800																												
1/17/2020	0800	25.0	9.0	27.0	9.5	29.0	9.5	0.0	24.16	0.0	22.18	22.0	2,186	2	179.4	31.0	2,489	19.2	89.0	26.65	3,677.96	14,711.85	4	7,340.65	4.58E-04	0.7328	0.8481	0.1357
	1000	26.0	8.5	28.0	9.5	28.0	9.5	0.0	24.17	0.0	22.19	23.0	2,316	2	182.6	31.7	2,516	26.8	91.0	28.10	3,717.86	14,871.44	4	7,420.27	4.63E-04	0.7809	0.9038	0.1446
	1200	26.0	9.0	28.0	9.0	28.0	10.0	0.0	24.17	0.0	22.20	22.0	2,277	2	183.0	30.4	2,387	25.4	93.0	27.61	3,527.24	14,108.95	4	7,039.82	4.39E-04	0.7279	0.8425	0.1348
	1400	25.0	9.0	27.0	9.5	29.0	10.0	0.0	24.18	0.0	22.21	22.0	2,306	2	184.5	29.0	2,302	23.4	95.0	27.89	3,401.64	13,606.54	4	6,789.14	4.24E-04	0.7093	0.8209	0.1313
	1500	25.0	8.5	27.0	9.0	29.0	10.0	0.0	24.20	0.0	22.21	21.0	2,345	2	186.9	29.5	2,299	26.0	96.0	28.26	3,397.20	13,588.81	4	6,780.29	4.23E-04	0.7177	0.8306	0.1329
								Average Values				21.7	2,272	2	201.1	28.7	2,362	21.9	--	26.37	3,467.21	13,868.85	4.00	6920.02	0.000432	0.6835	0.7910	0.1266
												B_{ws}	0.323	B_{wsw}	0.195													

Total Pounds of Carbon (as emissions)	65.6136
Total Pounds of Gasoline (as emissions)	75.9348
Total Gallons of Gasoline (as emissions)	12.1496

NOTES:

inches of Hg - inches of mercury

ppm - parts per million

Q_{std} - flow at DSCFM

DSCFM - Dry Standard Cubic Feet per Minute

PPM_d - "dry" concentration

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

K - number of carbons in calibration gas

C_{cm} - mass concentration of VOC emissions as carbon

PMR_c - pollutant mass removal of VOCs as carbon

PMR_g - pollutant mass removal of VOCs as gasoline

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

B_{ws} - water vapor % by volume

Extraction Well Information

Extraction Well ID	Time	Depth to Free-Product (feet BTOC)	Depth to Water (feet BTOC)	Screened Interval Depth (feet)	Target Stinger Depth (feet)
MW01	Initial	21.15	21.59	30	28
	Post	--	21.10		
MW24	Initial	23.14	23.95	35	33
	Post	--	23.24		
RW01	Initial	22.45	24.64	40	38
	Post	--	25.94		

WESTSIDE QUICK STOP – UST PERMIT #12430
LONG-TERM AFVR/MMPE EVENT

ATTACHMENT B

72543234
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY©

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarante for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE 1-22-20

07:48

72543234

SCALE 745

LOCATION PILOT
I 85 EXIT 35
PIEDMONT SC

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	19080	lb
DRIVE AXLE	49320	lb
TRAILER AXLE	00	lb
*GROSS WEIGHT	68400	lb

This is to certify that the following described merchandise was weighed, counted, or measured by public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of th accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY BLUE FROG

TRACTOR # T2 TRAILER # 0

WEIGH NUMBER
3234

FEE $12.00

WEIGHMASTER OR WEIGHER SIGNATURE LISA S

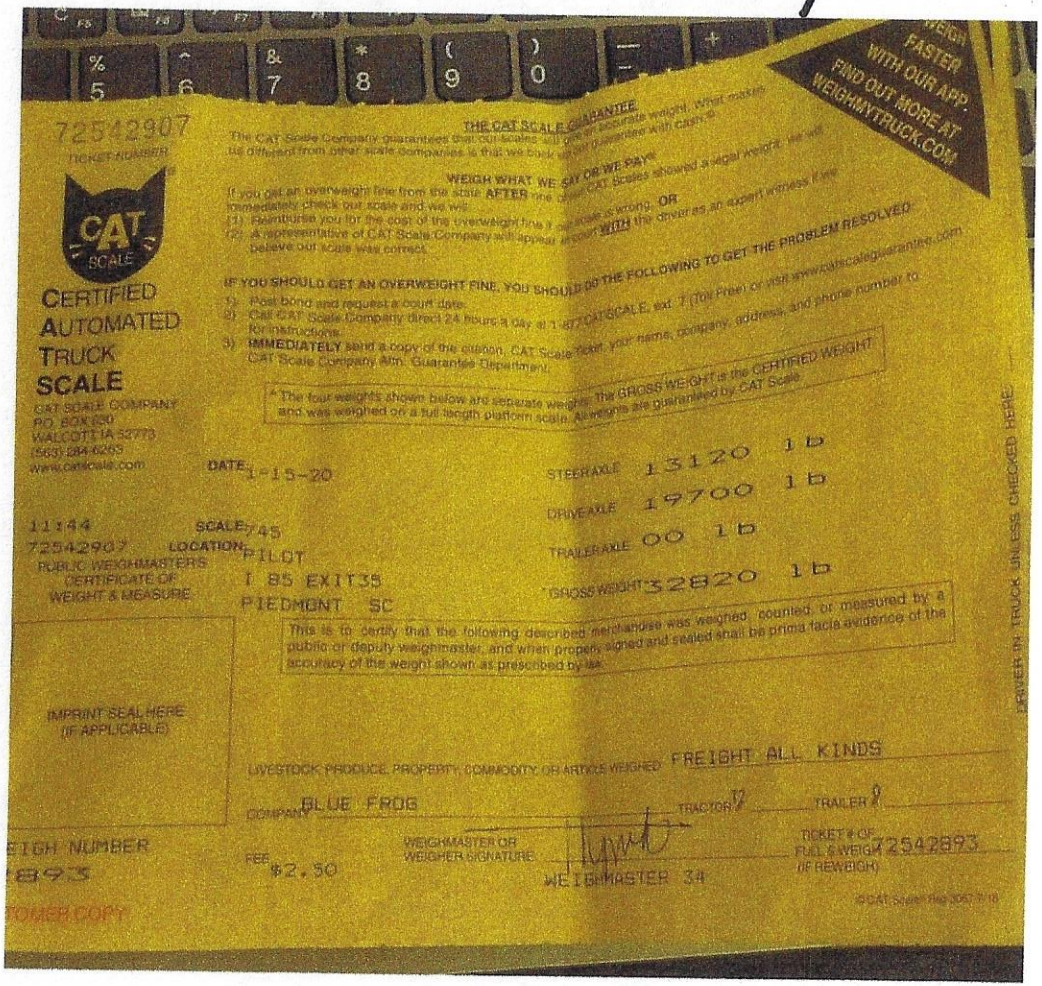
TICKET # OF FULL $ WEIGH (IF REWEIGH)

© CAT Scale® Reg

CUSTOMER COPY

68400
- 32820 empty
35580 lbs
@ 8.3 lbs/gal
≈ 4286.74 gallons

Master Empty Scale Ticket



72542907
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
PO BOX 630
WALCOTT IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY!

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of this citation, CAT Scale ticket, your name, company, address, and phone number to: CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weighs. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE 1-15-20

11:44 SCALE 745
72542907 LOCATION PILOT
PUBLIC WEIGHMASTERS
CERTIFICATE OF
WEIGHT & MEASURE
I 85 EXIT35
PIEDMONT SC

STEER AXLE 13120 lb
DRIVE AXLE 19700 lb
TRAILER AXLE 00 lb
GROSS WEIGHT 32820 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY BLUE FROG TRACTOR 17 TRAILER 0

EIGH NUMBER
8923

FEE $2.50

WEIGHMASTER OR WEIGHER SIGNATURE

WEIGHMASTER 34

TICKET # OF FULL & WEIGH (IF REWEIGH) 72542893

TOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE

WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: 12320A

5. Generator's Name and Mailing Address: Blue Frog Reclamation
15 Sulphur Springs Rd
Greenville, SC 29617

Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Blue Frog Reclamation | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: JACA BB Utilities
120 Blair Mill Rd
Belton SC 29627 | U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1	Non Hazardous Non Regulated PCW	001	TT	~~4000~~	G
2	Westside QS. UST 12430 ACVR PH 6.5			4286 gallons	
3				See weight Ticket # 12543234	
4					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national/governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shane P. Florian | Signature: [signature] | Month 1 | Day 22 | Year 20

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Shane P. Florian | Signature: [signature] | Month 1 | Day 22 | Year 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Ronald Campbell | Signature: Ronald Campbell | Month 1 | Day 22 | Year 20

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: 127204

5. Generator's Name and Mailing Address: Petra-Tech, 15 Sulphur Springs Rd, Greenville, Sc 29617 | Generator's Site Address (if different than mailing address)

Generator's Phone:

6. Transporter 1 Company Name: Blue Frog Reclamation | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: eLabs, 15 Sulphur Springs Rd, Greenville, Sc 29617 | U.S. EPA ID Number

Facility's Phone:

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1	Non Hazardous Non Regulated PCW	001	TT	4000	G
2	westside QS -UST 12430 AFVR Contact water				
3					
4					

13. Special Handling Instructions and Additional Information

GENERATOR

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shane P. Florian | Signature | Month: 1 | Day: 21 | Year: 20

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Shane P. Florian | Signature | Month: 1 | Day: 21 | Year: 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month | Day | Year

169-BLC-O 5 11977 (Rev. 9/09)



72543315
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

WITH FIND OUT WEIGHMYTRU

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVE

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguara for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE 1-23-20
09:58
SCALE 745
72543315 LOCATION PILOT
I 85 EXIT35
PIEDMONT SC
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

STEER AXLE	18920 lb
DRIVE AXLE	48320 lb
TRAILER AXLE	00 lb
* GROSS WEIGHT	67240 lb

This is to certify that the following described merchandise was weighed, counted, or measured b public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY BLUE FROG TRACTOR 12 TRAILER 8

WEIGH NUMBER
3315

FEE $12.00

WEIGHMASTER OR WEIGHER SIGNATURE MISSY

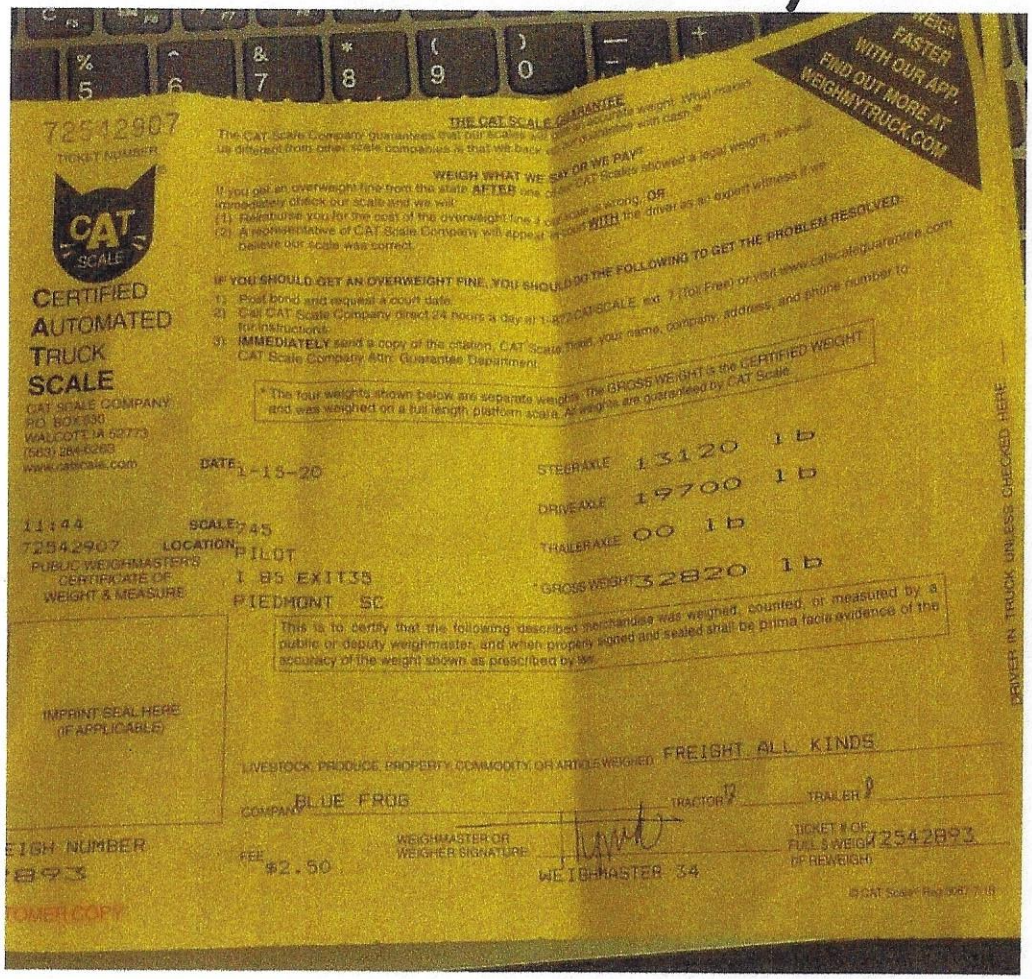
TICKET # OF FULL $ WEIGH (IF REWEIGH)

CUSTOMER COPY

© CAT Scale®

67240
- 32820 empty wght
34 420
@ 8.3 lbs/gal
≈ 4146.98 gallons.

Master Empty Scale Ticket



WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

72542907
TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
PO BOX 830
WALCOTT, IA 52773
(563) 284-6263
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.

WEIGH WHAT WE SAY OR WE PAY*

If you get an overweight fine from the state AFTER one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:
(1) Reimburse you for the cost of the overweight fine if our scale is wrong, OR
(2) A representative of CAT Scale Company will appear in court WITH the driver as an expert witness if we believe our scale was correct.

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:
1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-872-CAT-SCALE ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) IMMEDIATELY send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE 1-15-20

STEER AXLE 13120 lb
DRIVE AXLE 19700 lb
TRAILER AXLE 00 lb
*GROSS WEIGHT 32820 lb

11:44
72542907
PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

SCALE 745
LOCATION PILOT
I 85 EXIT35
PIEDMONT SC

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facie evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE (IF APPLICABLE)

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY BLUE FROG
TRACTOR 12
TRAILER 8

FEE $2.50
WEIGHMASTER OR WEIGHER SIGNATURE
WEIGHMASTER 34
TICKET # OF FULL $ WEIGH (IF REWEIGH) 72542893

EIGH NUMBER
893
TOMER COPY

DRIVER IN TRUCK UNLESS CHECKED HERE

© CAT Scale® Reg 3067 7-18

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number: 12220B

5. Generator's Name and Mailing Address: Petra-Tech, 15 Sulphur Spring Rd, Greenville, SC 29617

Generator's Site Address (if different than mailing address)

Generator's Phone

6. Transporter 1 Company Name: Blue Frog Reclamation | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: eLabs, 15 Sulphur Springs Rd, Greenville, SC 29617 | U.S. EPA ID Number

Facility's Phone

9. Waste Shipping Name and Description	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.
1. Non Hazardous Non Regulated PCW	001	TT	4200	g
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Shane P. Florian | Signature: [signature] | Month 1 Day 22 Year 20

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit

Transporter Signature (for exports only) | Date leaving U.S.

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Shane P. Florian | Signature: [signature] | Month 1 Day 22 Year 20

Transporter 2 Printed/Typed Name | Signature | Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone

17c. Signature of Alternate Facility (or Generator) | Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month Day Year

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

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NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number | 2. Page 1 of | 3. Emergency Response Phone | 4. Waste Tracking Number 12320A

5. Generator's Name and Mailing Address: Blue Frog Reclamation, 13 Sulphur Spring Rd, Greenville, SC 29617 | Generator's Site Address (if different than mailing address)

Generator's Phone

6. Transporter 1 Company Name: Blue Frog Reclamation | U.S. EPA ID Number

7. Transporter 2 Company Name | U.S. EPA ID Number

8. Designated Facility Name and Site Address: JACABB Oil Inc. S, 120 Blair Mill Rd, Belton, SC 29627 | U.S. EPA ID Number

Facility's Phone

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No	Type	11. Total Quantity	12. Unit Wt./Vol.
1.	Non Hazardous Non Regulated PCW	001	TT	4760	G
2.	Westside Quick Stop UST 12430 AFVR/Contact Water	PH 7.3		4146.88 gallons See Weight Ticket # 12543315	
3.					
4.					

13. Special Handling Instructions and Additional Information

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's Offeror's Printed/Typed Name: Shane R. Florian | Signature | Month 1 | Day 23 | Year 20

INTL

15. International Shipments ☐ Import to U.S ☐ Export from U.S Port of entry/exit

Transporter Signature (for exports only) Date leaving U.S.

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Shane R. Florian | Signature | Month 1 | Day 23 | Year 20

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number

17b. Alternate Facility (or Generator) | U.S. EPA ID Number

Facility's Phone

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in item 17a

Printed/Typed Name: Clyde Strickland | Signature: Clyde Strickland | Month 1 | Day 23 | Year 20

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY'S COPY

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dhec
Healthy People. Healthy Communities.

WESTSIDE QUIK SHOP INC
821 W PARKER RD
GREENVILLE SC 29611

SHREE GAJVAKRA LLC
205 FAIRWAY DR
LAURENS SC 29360

MAR 1 6 2020

UST 47 DOCKETING

Re: **Site Specific Work Plan Request for Groundwater Sampling**
Westside Quick Stop, 821 W. Parker Rd., Greenville, SC
UST Permit #12430
Release #1 reported June 7, 2012
Release #2 reported October 23, 2012
AFVR Report received January 30, 2020
Greenville County

To Whom it May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed the referenced report submitted by your contractor. The report documents petroleum chemicals in the soil and groundwater above Risk-Based Screening Levels.

To determine what risk the referenced release may pose to human health and the environment, and in accordance with Section 280.65 of the South Carolina Underground Storage Tank Control Regulations R.61-92, implementation of groundwater sampling is necessary. The groundwater sampling must be conducted in accordance with the most recent revision of the UST Quality Assurance Program Plan (QAPP), your contractor's Annual Contractor Quality Assurance Plan, and in compliance with all applicable regulations. A copy of the UST QAPP is available at SCDHEC.gov/Environment/Land-Waste/Underground-Storage-Tanks/Release-Assessment-Clean/Quality-Assurance.

Groundwater samples should be collected from all monitoring wells associated with this release along with all water supply wells and surface waters within a 1,000 foot radius of the site. Samples should be analyzed for BTEX, Naphthalene, MTBE, 1,2-DCA, the 8 oxygenates, and EDB. Only wells with screens that bracket the water table should be purged prior to sampling.

Your contractor must complete the Site Specific Work Plan and submit it within 30 days from the date of this letter. Every component may not be necessary to complete the above scope of work. The State Underground Petroleum Environmental Response Bank (SUPERB) Account allowable cost for each component is included on the Assessment Component Cost Agreement Form. **Please note that approval from DHEC must be issued before work begins.**

Please note that the costs of this groundwater sampling event will be split evenly between both releases.

On all correspondence concerning this site, please reference UST Permit #12430. If there are any questions concerning this project, feel free to contact me by telephone at (803) 898-2889, by fax at (803) 898-0673, or by e-mail at thomasma@dhec.sc.gov.

Sincerely,

Morgan Thomas, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

cc: Environmental Laboratories Inc., PO Box 1729, Travelers Rest, SC 29690
Technical file

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS



March 30, 2020

SCDHEC - UST Management Division
2600 Bull Street
Columbia, SC 29201-1708

Attention: Morgan Thomas

Subject: **Site Specific Work Plan – Groundwater Sampling**
Westside Quick Stop
821 W. Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
PTE Job No. J20-898-A

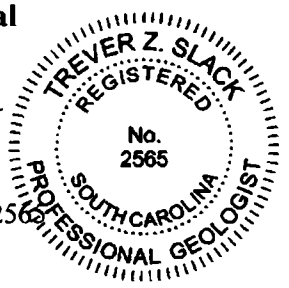
Dear Ms. Thomas:

On behalf of Westside Quick Stop Inc., Shree Gajvakra LLC, and Environmental Laboratories Inc., Petra-Tech Environmental, LLC submits herein the completed Site-Specific Work Plan for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) Site Specific Work Plan Directive for Initial Groundwater Assessment dated March 16, 2020.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565

Site-Specific Work Plan for Approved ACQAP
Underground Storage Tank Management Division

To: Morgan Thomas (SCDHEC Project Manager)
From: Trever Slack, P.G. (Contractor Project Manager)
Contractor: Petra-Tech Environmental, LLC UST Contractor Certification Number: UCC-436

Facility Name: Westside Quick Stop UST Permit #: 12430
Facility Address: 821 W. Parker Road, Greenville, South Carolina
Responsible Party: Westside Quick Stop Inc. & Shree Gajvakra LLC Phone: _____
RP Address: 821 W. Parker Road, Greenville, SC 29611 & 205 Fairway Drive, Laurens, SC 29360
Property Owner (if different): Shree Gajvakra, LLC
Property Owner Address: 205 Fairway Drive, Laurens, SC 29360
Current Use of Property: Convenience Store

Scope of Work (Please check all that apply)

- ☐ IGWA
- ☐ Tier I
- ☐ Tier II
- ☐ Monitoring Well Installation
- ☑ Groundwater Sampling
- ☐ Other _____
- ☐ GAC

Analyses (Please check all that apply)

Groundwater/Surface Water:

- ☑ BTEXNMDCA (8260B)
- ☑ Oxygenates (8260B)
- ☑ EDB (8011)
- ☐ PAH(8270D)
- ☐ Lead
- ☐ 8 RCRA Metals
- ☐ TPH
- ☐ pH
- ☐ BOD
- ☐ Nitrate
- ☐ Sulfate
- ☐ Other _____
- ☐ Methane
- ☐ Ethanol
- ☐ Dissolved Iron

Drinking Water Supply Wells:

- ☐ BTEXNMDCA (524.2)
- ☐ Oxygenates & Ethanol (8260B)
- ☐ Mecury (200.8 245.1 or 245.2)
- ☐ RCRA Metals (200.8)
- ☑ EDB(504.1)

Soil:

- ☐ BTEXNM
- ☐ Lead
- ☐ RCRA Metals
- ☐ PAH
- ☐ Oil & Grease (9071)
- ☐ TPH-DRO (3550B/8015B)
- ☐ TPH-GRO (5030B/8015B)
- ☐ Grain Size
- ☐ TOC

Air:

- ☐ BTEXN

Sample Collection (Estimate the number of samples of each matrix that are expected to be collected.)

_____ Soil	1 Water Supply Wells	_____ Air	4 Field Blank
42 Monitoring Wells	_____ Surface Water	3 Duplicate	3 Trip Blank

Field Screening Methodology

Estimate number and total completed depth for each point, and include their proposed locations on the attached map.

# of shallow points proposed: _____ Estimated Footage: _____ feet per point
# of deep points proposed: _____ Estimated Footage: _____ feet per point
Field Screening Methodology: _____

Permanent Monitoring Wells

Estimate number and total completed depth for each well, and include their proposed locations on the attached map.

# of shallow wells: _____ Estimated Footage: _____ feet per point
# of deep wells: _____ Estimated Footage: _____ feet per point
# of recovery wells: _____ Estimated Footage: _____ feet per point
Comments, if warranted:

_____

_____

UST Permit #: 12430 Facility Name: Westside Quick stop

Implementation Schedule (Number of calendar days from approval)
Field Work Start-Up: 15 Field Work Completion: 30
Report Submittal: 60 # of Copies Provided to Property Owners: 7

Aquifer Characterization
Pump Test: ☐ Slug Test: ☐ (Check one and provide explanation below for choice)

Investigation Derived Waste Disposal
Soil: _____ Tons Purge Water: 220 Gallons
Drilling Fluids: _____ Gallons Free-Phase Product: _____ Gallons

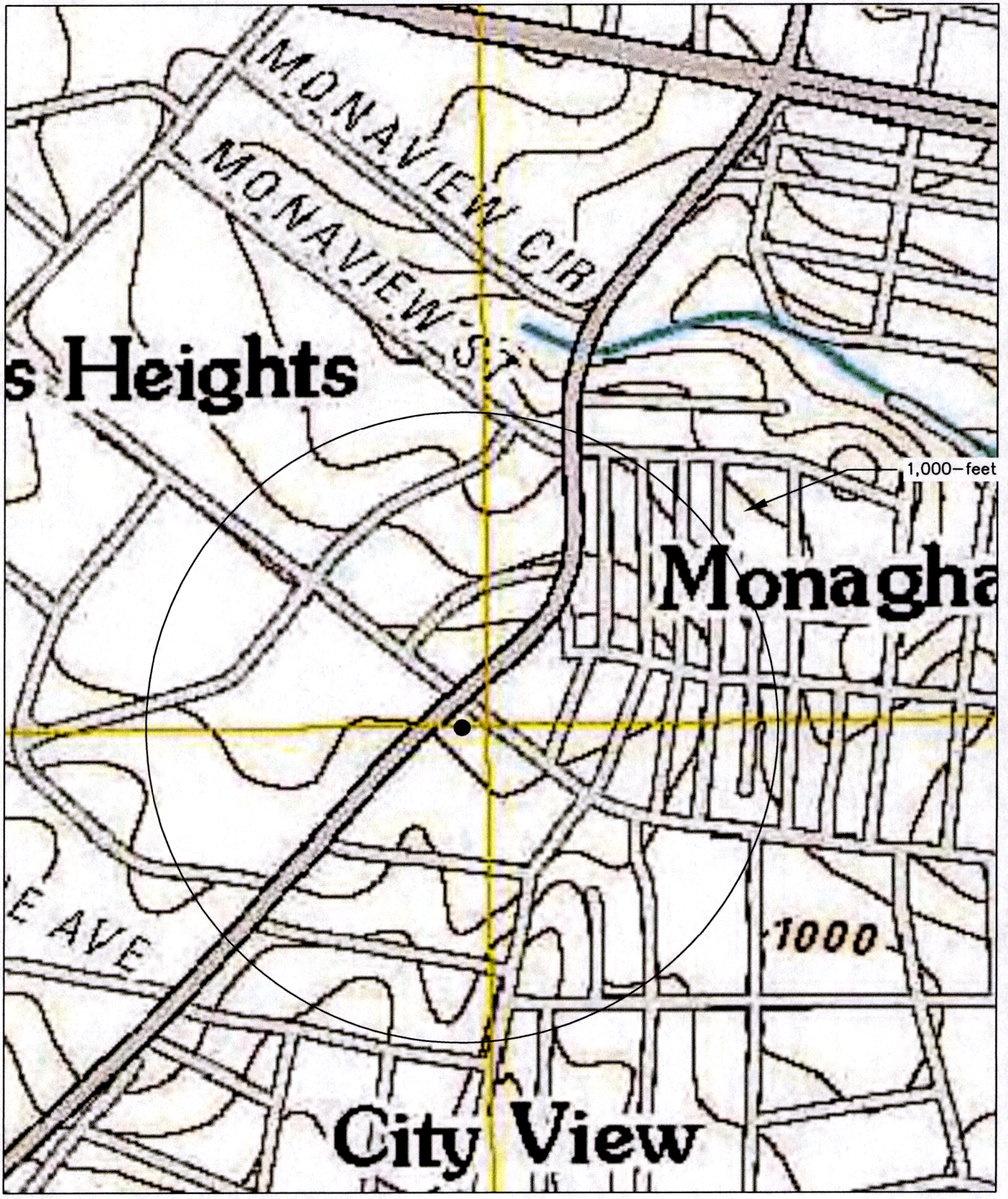
Additional Details For This Scope of Work
For example, list wells to be sampled, wells to be abandoned/repaired, well pads/bolts/caps to replace, details of AFVR event, etc.

Compliance With Annual Contractor Quality Assurance Plan (ACQAP)
Yes Laboratory as indicated in ACQAP? (Yes/No) If no, indicate laboratory information below.
Name of Laboratory: _____
SCDHEC Certification Number: _____
Name of Laboratory Director: _____

N/A Well Driller as indicated in ACQAP? (Yes/No) If no, indicate driller information below.
Name of Well Driller: _____
SCLLR Certification Number: _____

No Other variations from ACQAP. Please describe below.

Attachments
1. Attach a copy of the relevant portion of the USGS topographic map showing the site location.
2. Prepare a site base map. This map must be accurately scaled, but does not need to be surveyed. The map must include the following:
   - North Arrow
   - Location of property lines
   - Location of buildings
   - Previous soil sampling locations
   - Previous monitoring well locations
   - Proposed soil boring locations
   - Proposed monitoring well locations
   - Legend with facility name and address, UST permit number, and bar scale
   - Streets or highways (indicate names and numbers)
   - Location of all present and former ASTs and USTs
   - Location of all potential receptors
3. Assessment Component Cost Agreement, SCDHEC Form D-3664



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

N

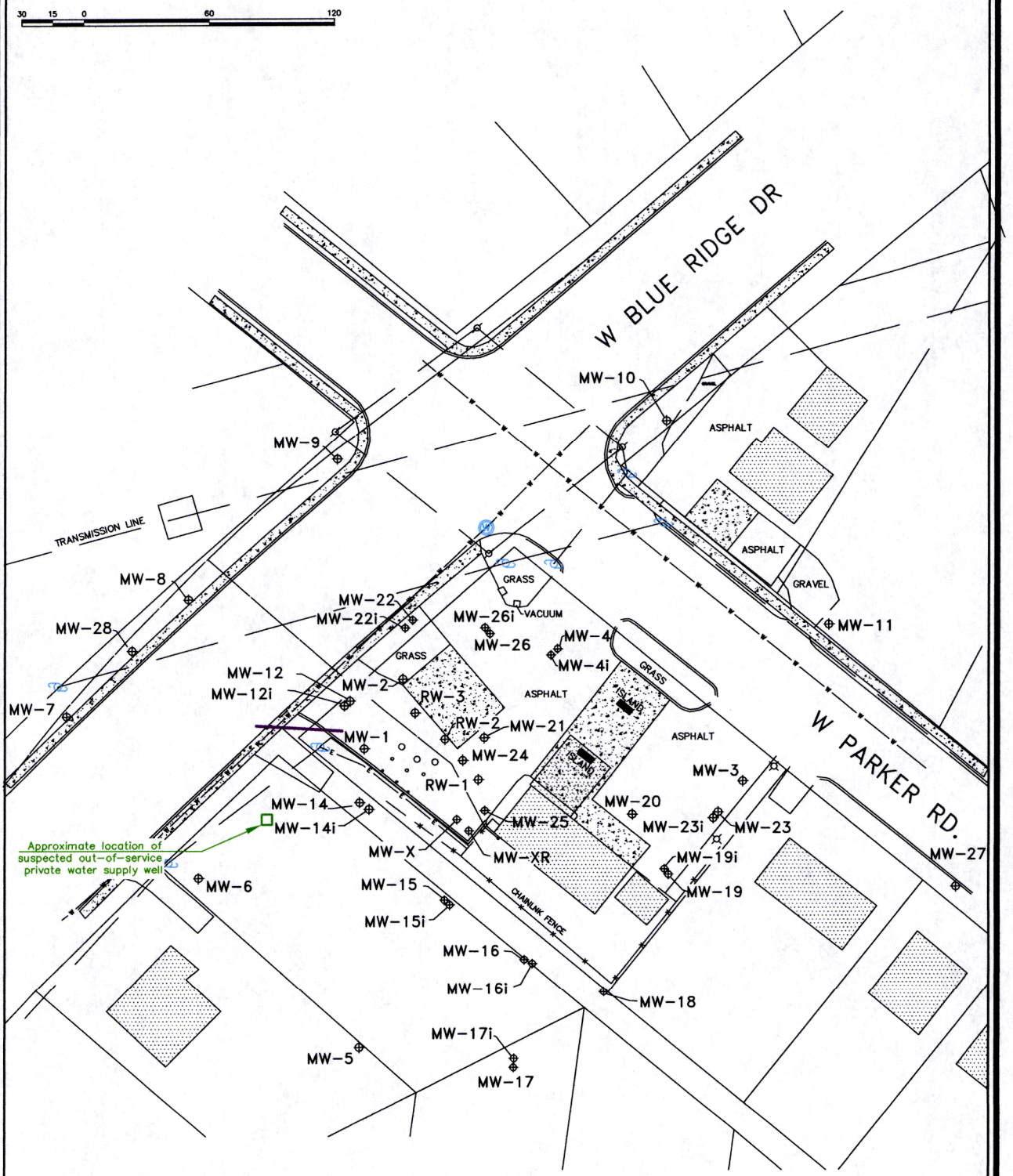
● SITE

Title	Site Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County
Date	07/01/2016
Job No.	J16-232-A

petra-tech ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

Figure No. 1

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017



Groundwater Monitoring Well

Title	Well Location Map
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	03/30/2020
Job No.	J20-898-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2

Healthy People. Healthy Communities.

ASSESSMENT COMPONENT COST AGREEMENT
SOUTH CAROLINA
Department of Health and Environmental Control
Underground Storage Tank Management Division
State Underground Petroleum Environmental Response Bank Account
January 1, 2020

Facility Name: **Westside Quick Stop**

UST Permit #: 12430 **Cost Agreement #:** _____

ITEM	QUANTITY	UNIT	UNIT PRICE		TOTAL
A. **Plan Preparation**					
1. Site-specific Work Plan	1	each	$160.05		$160.05
2. Tax Map		each	$74.69		$0.00
3. Tier II or Comp. Plan /QAPP Appendix B		each	$250.00		$0.00
B. **Receptor Survey ***		each	$587.92		$0.00
C. **Survey (500 ft x 500 ft)**					
1. Comprehensive Survey		each	$1,109.68		$0.00
Subsurface Geophysical Survey					
2. < 10 meters below grade		each	$1,387.10		$0.00
3. > 10 meters below grade		each	$2,464.77		$0.00
4. Geophysical UST or Drum Survey		each	$970.97		$0.00
D. **Mob/Demob**					
1. Equipment		each	$1,088.34		$0.00
2. Personnel	3	each	$451.34		$1,354.02
3. Adverse Terrain Vehicle		each	$533.50		$0.00
E.. **Soil Borings (hand auger)***		foot	$5.34		$0.00
F. **Soil Borings (requiring equipment, push technology, etc) or Field Screening (including water ssample, soil sample, soil gas sample, etc.)***					
1. Standard		per foot	$16.01		$0.00
2. Fractured Rock		per foot	$21.55		$0.00
G. **Soil Leachability Model**		each	$64.02		$0.00
H. **Abandonment (per foot)***					
1. 2" diameter or less		per foot	$3.31		$0.00
2. Greater than 2" to 6" diameter		per foot	$4.80		$0.00
3. Dug/Bored well (up to 6 feet diameter)		per foot	$16.00		$0.00
I. **Well Installation (per foot)***					
1. Water Table (hand augered)		per foot	$11.31		$0.00
2. Water Table (drill rig) 2" Diameter		per foot	$40.55		$0.00
3. Telescoping		per foot	$53.35		$0.00
4. Rock Drilling		per foot	$61.89		$0.00
5. 2" Rock Coring		per foot	$32.97		$0.00
6. Rock Multi-sampling ports/screens		per foot	$35.64		$0.00
7. Recovery Well (4" diameter)		per foot	$48.02		$0.00
8. Pushed Pre-packed screen (1.25" dia)		per foot	$16.01		$0.00
9. Rotosonic (2" diameter)		per foot	$46.95		$0.00
10. Re-develop Existing Well		per foot	$11.74		$0.00

J. **Groundwater Sample Collection / Gauge Depth to Water or Product ***					
1. Groundwater Purge		per well	$64.02		$0.00
2. Air or Vapors		sample	$12.80		$0.00
3. Water Supply Sample or Duplicate	2	sample	$23.47		$46.94
4. Groundwater No Purge or Duplicate or Grab	2	sample	$29.88		$59.76
5. Gauge Well only		sample	$7.47		$0.00
6. Sample Below Product		sample	$12.80		$0.00
7. Passive Diffusion Bag		sample	$27.74		$0.00
8. Field Blank	4	sample	$26.25		$105.00
9. Groundwater (low flow purge)	42	sample	$97.10		$4,078.20
10. Equipment Blank	3	sample	$26.25		$78.75
K. Laboratory Analyses-Groundwater					
1. BTEXNM+Oxyg's+1,2 DCA+Eth(8260B)	53	per sample	$130.17		$6,899.01
2. Lead, Filtered		per sample	$14.72		$0.00
3. Rush EPA Method 8260B		per sample	$163.89		$0.00
4. Trimethal, Butyl, and Isopropyl Benzenes		per sample	$29.88		$0.00
5. PAH's		per sample	$64.66		$0.00
6. Lead		per sample	$17.07		$0.00
7. EDB by EPA 8011	51	per sample	$48.23		$2,459.73
8. EDB by EPA Method 8011 Rush		per sample	$72.77		$0.00
9. 8 RCRA Metals		per sample	$67.65		$0.00
10. TPH (9070)		per sample	$43.75		$0.00
11. PH		per sample	$5.55		$0.00
12. BOD		per sample	$21.34		$0.00
13. Ethanol		per sample	$15.79		$0.00
K. Analyses-Drinking Water					
14. BTEXNM+1,2 DCA (524.2)	5	per sample	$132.36		$661.80
15. 7-OXYGENATES & ETHANOL (8260B)	5	per sample	$97.90		$489.50
16. EDB (504.1)	4	per sample	$84.83		$339.32
17. RCRA METALS (200.8)		per sample	$106.70		$0.00
K. **Analyses-Soil**					
18. BTEX + Naphth.		per sample	$68.29		$0.00
19. PAH's		per sample	$68.33		$0.00
20. 8 RCRA Metals		per sample	$60.18		$0.00
21. TPH-DRO (3550C/8015C)		per sample	$42.68		$0.00
22. TPH- GRO (5035B/8015C)		per sample	$38.37		$0.00
23. Grain size/hydrometer		per sample	$110.97		$0.00
24. Total Organic Carbon		per sample	$32.65		$0.00
K. **Analyses-Air**					
25. BTEX + Naphthalene		per sample	$230.47		$0.00
K. **Analyses-Free Phase Product**					
26. Hydrocarbon Fuel Identification		per sample	$380.92		$0.00
L. **Aquifer Characterization***					
1. Pumping Test		per hour	$24.54		$0.00
2. Slug Test		per test	$203.80		$0.00
3. Fractured Rock		per test	$106.70		$0.00

M. **Free Product Recovery Rate Test***		each	$40.55		$0.00
N. **Fate/Transport Modeling**					
1. Mathematical Model		each	$106.70		$0.00
2. Computer Model		each	$106.70		$0.00
O. **Risk Evaluation**					
1. Tier I Risk Evaluation		each	$320.10		$0.00
2. Tier II Risk Evaluation		each	$106.70		$0.00
P. **Subsequent Survey***		each	$260.00		$0.00
Q. **Disposal (gallons or tons)***					
1. Wastewater	220	gallon	$0.60		$132.00
2. Free Product		gallon	$0.53		$0.00
3. Soil Treatment/Disposal		ton	$64.02		$0.00
4. Drilling fluids		gallon	$0.45		$0.00
R. **Miscellaneous (attach receipts)**					
		each	$0.00		$0.00
		each	$0.00		$0.00
		each	$0.00		$0.00
T. **Tier I Assessment (Use DHEC 3665 form)**					
1. Southeast Region		standard	$11,026.00		$0.00
2. All Other Counties		standard	$12,093.00		$0.00
U. IGWA (Use DHEC 3666 form)					
1. Southeast Region		standard	$3,803.00		$0.00
2. All Other Counties		standard	$4,123.00		$0.00
22. **Corrective Action (Use DHEC 3667 form)**		PFP Bid			$0.00
W. **Aggressive Fluid & Vapor Recovery (AFVR)**					
1. 8-hour Event*		per event	$1,467.13		$0.00
2. 24-hour Event*		per event	$4,081.28		$0.00
3. 48-hour Event*		per event	$6,706.10		$0.00
4. 96-hour Event*		per event	$13,409.52		$0.00
5. Off-gas Treatment 8 hour		per event	$130.71		$0.00
6. Off-gas Treatment 24 hour		per event	$257.68		$0.00
7. Off-gas Treatment 48 hour		per event	$348.91		$0.00
8. Off-gas Treatment 96 hour		per event	$832.26		$0.00
9. Off-gas Treatment 8 hour (w/chlorinated compounds)		per event	$430.00		$0.00
10. Off-gas Treatment 24 hour (w/chlorinated compounds)		per event	$500.00		$0.00
11. Off-gas Treatment 48 hour (w/chlorinated compounds)		per event	$1,000.00		$0.00
12. Off-gas Treatment 96 hour (w/chlorinated compounds)		per event	$2,000.00		$0.00
13. AFVR Effluent Disposal(w/chlorinated compounds)		gallon	$0.50		$0.00
14. AFVR Site Reconnaissance		each	$216.87		$0.00
15. Additional Hook-ups		each	$27.48		$0.00
16. AFVR Effluent Disposal		gallon	$0.47		$0.00
17. AFVR Mobilization/Demobilization		each	$417.73		$0.00
X. **Granulated Activated Carbon (GAC) filter system installation & service:**					
1. New GAC System Installation*		each	$2,027.30		$0.00
2. Refurbished GAC Sys. Install*		each	$960.30		$0.00
3. Filter replacement/removal*		each	$373.45		$0.00
4. GAC System removal, cleaning, & refurbishment*		each	$293.43		$0.00

5. GAC System housing*		each	$266.75		$0.00
6. In-line particulate filter		each	$160.05		$0.00
7. Additional piping & fittings		foot	$1.60		$0.00
Y. **Well Repair**					
1. Additional Copies of the Report Delivered	7	each	$53.35		$373.45
2. Repair 2x2 MW pad*		each	$53.35		$0.00
3. Repair 4x4 MW pad*		each	$93.90		$0.00
4. Replace well vault*		each	$125.91		$0.00
5. Replace well cover bolts		each	$2.77		$0.00
6. Replace locking well cap & lock		each	$16.00		$0.00
7. Replace/Repair stick-up*		each	$142.98		$0.00
8. Convert Flush-mount to Stick-up*		each	$160.05		$0.00
9. Convert Stick-up to Flush-mount*		each	$138.71		$0.00
10. Replace missing/illegible well ID plate		each	$12.80		$0.00
S. Report Prep & Project Management	12%	percent	$17,237.53		$2,068.50
TOTAL					$19,306.03

DHEC D-4074 (1-2020) *The appropriate mobilization cost can be added to complete these tasks, as necessary

dhec
Healthy People. Healthy Communities.

WESTSIDE QUIK SHOP INC
821 W PARKER RD
GREENVILLE SC 29611

SHREE GAJVAKRA LLC
205 FAIRWAY DR
LAURENS SC 29360

JUL 2 9 2020

UST 49 Geel DOCKETING

Re: **Site-Specific Work Plan Approval and Groundwater Sampling Notice to Proceed**
Westside Quick Stop, 821 W. Parker Rd., Greenville, SC
UST Permit #12430; CA #61503, #61504
Release #1 reported June 7, 2012
Release #2 reported October 23, 2012
Site Specific Work Plan received March 31, 2020
Greenville County

To Whom it May Concern:

The Underground Storage Tank Management Division (UST Division) of the South Carolina Department of Health and Environmental Control (DHEC) has reviewed and approved the referenced Site Specific Work Plan (SSWP) submitted by your contractor. All work should be conducted in compliance with the most recent revision of the UST QAPP, your contractor's Annual Contractor Quality Assurance Plan, and all applicable regulations. A copy of the current revision of the UST QAPP is available at https://www.scdhec.gov/environment/land-waste/underground-storage-tanks/release-assessment-clean/quality-assurance.

The groundwater sampling event should begin immediately upon receipt of this letter. The Cost Agreement number shown above has been approved for the amount shown on the enclosed cost agreement form.

Please note the following changes to the cost agreement and SSWP:

- Item J 4 – Increased from 2 to 3.
- Item K 1 – Decreased from 53 to 51.
- Item K 7 – Decreased from 51 to 48.
- Item K 14 – Decreased from 5 to 4.
- Item K 15 – Decreased from 5 to 4.
- Item K 16 – Decreased from 4 to 3.

Furthermore, all line items were updated to reflect the split of the costs between both releases.

The contractor must provide notification to the UST Project Manager via email 4 days prior to initiation of any site rehabilitation activities. If there are any changes to the schedule, the UST Project Manager must be contacted within 24 hours of those changes.

Your contractor can submit an invoice for direct payment from the State Underground Petroleum Environmental Response Bank (SUPERB) Account for pre-approved costs. **The Monitoring Report, contractor checklist (QAPP Appendix K), and invoice should be submitted to the UST Division within sixty (60) days of the date of this correspondence.** If the invoice is not submitted within 120 days from the date of this letter, monies allocated to pay this invoice will be

uncommitted. This means that the invoice will not be processed for payment until all other committed funds are paid or monies become available.

Please note that sections 44-2-110(4) and 44-2-130 of the SUPERB Statute state that the SUPERB Account cannot compensate any costs that are not pre-approved. If for any reason additional tasks will be completed, these additional tasks, and the associated cost, must be pre-approved by the UST Division for the cost to be paid. The UST Division reserves the authority to pay only for work properly performed and/or technically justified and will only pay rates in accordance with established criteria. Further, the UST Division reserves the right to question and/or reject costs if deemed unreasonable and the right to audit project records at any time during the project or after completion of work.

Please note that applicable South Carolina certification requirements regarding laboratory services, well installation, and report preparation must be satisfied. Any site rehabilitation activity associated with the UST release must be performed by a DHEC-certified site rehabilitation contractor as required by the SUPERB Site Rehabilitation and Fund Access Regulation, R.61-98.

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

On all correspondence regarding this site, please reference UST Permit #12430. Should you have any questions regarding this correspondence, please feel free to contact me by phone at (803) 898-2889, by fax at (803) 898-0673, or by e-mail at thomasma@dhec.sc.gov.

Sincerely,

Morgan Thomas

Morgan Thomas, Hydrogeologist
Corrective Action & Quality Assurance Section
Underground Storage Tank Management Division
Bureau of Land and Waste Management

enc: Approved Cost Agreement

cc: Environmental Laboratories Inc., PO Box 1729, Travelers Rest, SC 29690 (w/enc)
Petra-Tech Environmental, 2435 E. North St., Suite 1108-202, Greenville, SC 29615 (w/o enc)
Technical file (w/enc)

Approved Cost Agreement 61503

Facility: 12430 WESTSIDE QUICK STOP
THOMASMA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1	SITE SPECIFIC WORK PLAN	0.5000	$160.050	80.03
D MOB/DEMOB						
		2	PERSONNEL	1.5000	$451.340	677.01
J SAMPLE COLLECTION						
		10	EQUIPMENT BLANK	1.5000	$26.250	39.38
		3	WATER SUPPLY SAMPLE/ DUPLICATE	1.0000	$23.470	23.47
		4	GROUNDWATER NO-PURGE/DUPL/GRAB	1.5000	$29.880	44.82
		8	FIELD BLANK	2.0000	$26.250	52.50
		9	GROUNDWATER (LOW FLOW PURGE)	21.0000	$97.100	2,039.10
K ANALYSES						
	DW DRINKING WATER	14	BTEXNM+1,2 DCA (524.2) WSW	2.0000	$132.360	264.72
		15	OXYGENATES & ETHANOL 8260B WSW	2.0000	$97.900	195.80
		16	EDB (504.1) WSW	1.5000	$84.830	127.25
	GW GROUNDWATER	1	BTEXNM+OXYGS+1,2-DCA+ETH-8260B	25.5000	$130.170	3,319.34
		7	EDB BY EPA 8011	24.0000	$48.230	1,157.52
Q DISPOSAL						
		1	WASTEWATER	110.0000	$0.600	66.00
S REPORT PROJECT MANAGEMENT						
		S	REPORT PREP & PROJ. MANAGEMENT	0.1200	$8,273.670	992.84
Y WELL REPAIR						
		1	ADDITIONAL COPIES OF REPORT	3.5000	$53.350	186.73
				Total Amount		9,266.51

Approved Cost Agreement 61504

Facility: 12430 WESTSIDE QUICK STOP
THOMASMA
PO Number:

Task / Description	Categories	Item	Description	Qty / Pct	Unit Price	Amount
A PLAN PREPARATION						
		1	SITE SPECIFIC WORK PLAN	0.5000	$160.050	80.03
D MOB/DEMOB						
		2	PERSONNEL	1.5000	$451.340	677.01
J SAMPLE COLLECTION						
		10	EQUIPMENT BLANK	1.5000	$26.250	39.38
		3	WATER SUPPLY SAMPLE/ DUPLICATE	1.0000	$23.470	23.47
		4	GROUNDWATER NO-PURGE/DUPL/GRAB	1.5000	$29.880	44 82
		8	FIELD BLANK	2.0000	$26.250	52.50
		9	GROUNDWATER (LOW FLOW PURGE)	21.0000	$97.100	2,039.10
K ANALYSES						
	DW DRINKING WATER	14	BTEXNM+1,2 DCA (524.2) WSW	2.0000	$132.360	264.72
		15	OXYGENATES & ETHANOL 8260B WSW	2.0000	$97.900	195.80
		16	EDB (504.1) WSW	1.5000	$84.830	127.25
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		7	EDB BY EPA 8011	24.0000	$48.230	1,157.52
Q DISPOSAL						
		1	WASTEWATER	110.0000	$0.600	66.00
S REPORT PROJECT MANAGEMENT						
		S	REPORT PREP & PROJ. MANAGEMENT	0.1200	$8,273.670	992.84
Y WELL REPAIR						
		1	ADDITIONAL COPIES OF REPORT	3.5000	$53.350	186.73
				Total Amount		9,266.51

petra-tech
ENVIRONMENTAL, LLC



September 4, 2020

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



Attention: Ms. Morgan Thomas

Subject: **Report of Groundwater Sampling – August 2020**
Westside Quick Stop
821 West Parker Road
Greenville, Greenville County, South Carolina
SCDHEC UST Permit #12430
Cost Agreement ##61503 & #61504
PTE Job No. J20-898-A

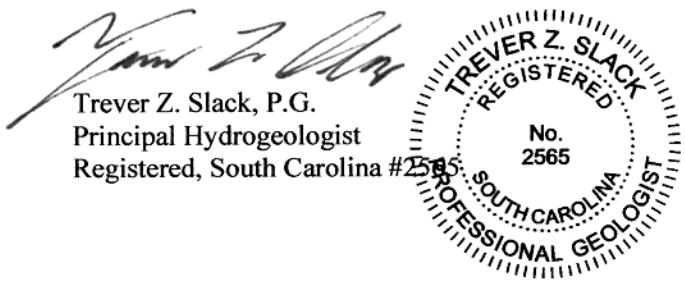
Dear Ms. Thomas,

On behalf of Shree Gajvakra LLC, Westside Quick Stop, Inc., and Environmental Laboratories, Inc., Petra-Tech Environmental, LLC submits herein the completed *Report of Groundwater Sampling - August 2020* for the subject site. This submittal is in response to the South Carolina Department of Health and Environmental Control's (SCDHEC) directive letter dated July 29, 2020.

Please do not hesitate to contact us at 864.631.2490 if you have any questions concerning this submittal.

Sincerely,

Petra-Tech Environmental



Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565

REPORT OF GROUNDWATER SAMPLING AUGUST 2020

Westside Quick Stop
SCDHEC UST Permit #12430
Cost Agreement #61503 & 61504
821 West Parker Road
Greenville, South Carolina
Greenville County

PTE Job No. J20-898-A

September 4, 2020

petra-tech
ENVIRONMENTAL, LLC
ENGINEERS & CONSULTANTS

Petra-Tech Environmental
2435 East North Street
Suite 1108-202
Greenville, SC 29615

www.petratechenv.com

September 4, 2020

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

Attention: Ms. Morgan Thomas

Subject: **Report of Groundwater Sampling – August 2020**
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Sincerely,

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Trever Z. Slack, P.G.
Principal Hydrogeologist
Registered, South Carolina #2565



2435 E. North Street, Suite 1108-202, Greenville, SC 29615 | Phone (864) 631-2490 | Fax (888) 838-9034
www.petratechenv.com

1.0 INTRODUCTION

The subject property is located at 821 West Parker Road in Greenville, Greenville County, South Carolina (**Figure 1**) and currently operates as a retail petroleum fueling station and convenience store. The site is bordered primarily by residential properties with the exception of a commercial property to the northeast and northwest.

According to the South Carolina Department of Health and Environmental Control Online Underground Storage Tank Registry database, three underground storage tanks (one 1,000-gallon kerosene and two 6,000-gallon regular gasoline) are currently in use at the site. Additionally, a 4,000-gallon super/premium gasoline underground storage tank is located at the site and is currently classified as extended-out-of-use. Two separate releases have been reported at the site. An Initial Groundwater Assessment, Tier I Assessment, and initial Tier II Assessment were completed in response to these releases.

As a result of the detection of free-phase petroleum product in groundwater monitoring well 12430-MW01 during a May 2016 groundwater gauging event conducted by the South Carolina Department of Health and Environmental Control, an additional Tier II Assessment and two 96-hour long-term AFVR/MMPE events were completed at the site in early 2017. The results of the AFVR/MMPE events were submitted to the South Carolina Department of Health and Environmental Control in a *Report of Long-Term AFVR/MMPE Events* dated May 8, 2017; and the results of the additional Tier II Assessment were submitted to the South Carolina Department of Health and Environmental Control in a *Tier II Assessment Report* dated May 29, 2017. Additional 96-hour long-term AFVR/MMPE events were completed at the site in May 2018 and in January 2020.

A monitoring well network consisting of forty-one groundwater monitoring wells (12430-MW01 through 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW14I, 12430-MW15, 12430-MW15I, 12430-MW16, 12430-MW16I, 12430-MW17, 12430-MW17I, 12430-MW18, 12430-MW18I, 12430-MW19, 12430-MW19I, 12430-MW20 through 12430-MW22, 12430-MW22I, 12430-MW23, 12430-MW23I, 12430-MW24 through 12430-MW26, 12430-MW26I, 12430-MW27, 12430-MW27I, 12430-MW28, 12430-MW0X, and 12430-MW0XR) and three recovery wells (12430-RW01 through 12430-RW03) is currently associated with the site. Additionally, a large diameter private water supply well is located approximately 60 feet to the southwest of the site but appears to have been abandoned. The South Carolina Department of Health and Environmental Control issued a *Groundwater Sampling Site-Specific Work Plan Directive* on March 16, 2020. The work plan was submitted on March 30, 2020 and was approved by the South Carolina Department of Health and Environmental Control in a *Directive Letter* dated July 29, 2020. The results of the groundwater sampling event are included herein.

2.0 ASSESSMENT INFORMATION

2.1 Groundwater Sampling

A comprehensive groundwater sampling event was conducted at the site between August 19, 2020 and August 22, 2020 by Mr. Jimmy Slagh and Mr. Tyler Kassing of Petra-Tech Environmental, LLC. Quality Assurance verification was provided by Ms. Kaye Jones.

Monitoring wells were purged prior to sampling using low-flow purging techniques and an adjustable rate submersible pump or peristaltic pump until it was determined that groundwater flow through the well screen was not inhibited by silt or fine sand and physical field parameters had stabilized. Field parameters were measured using a Horiba U-50 multiparameter water quality meter and a flow cell. Approximately 160

gallons of purge-water were transported off-site for disposal. Waste transportation and disposal records are attached in **Appendix A**. Monitoring well purging and sampling logs are included in **Appendix B**.

Sample containers were marked in the field with identifying numbers, properly preserved, placed into sample coolers, secured, and maintained at less than 4 degrees Celsius. The samples and chain-of-custody records were submitted to Pace Analytical Services for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, methyl-tert-butyl-ether (MTBE), 8-oxygenates, and 1,2-dicholorotehtane (1,2-DCA) by Environmental Protection Agency (EPA) Method 8260B; and 1,2-dibromoethane (EDB) by EPA Method 8011. One duplicate sample per twenty wells sampled and one field blank for each day in the field was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B and EDB by EPA Method 8011. Additionally, one trip blank for each sample cooler was analyzed for BTEX, naphthalene, MTBE, 8-oxygenates, and 1,2-DCA by EPA Method 8260B.

2.2 Assessment Results

2.2.1 Groundwater Occurrence

Site-wide stabilized groundwater elevations were recorded on August 19, 2020. A tabulation of the groundwater level data is provided in **Table 1**. A water table elevation contour map showing the occurrence and direction of groundwater flow in the shallow, water table aquifer is presented as **Figure 2**. Groundwater flow from the source area is generally to the southeast.

2.2.2 Groundwater Monitoring Well Sampling Results

Petroleum compounds were detected above South Carolina established Risk-Based Screening Levels in wells 12430-MW01, 12430-MW02, 12430-MW04, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23I, 12430-MW24, 12430-MW25, 12430-MW26, 12430-MW0X, 12430-MW0XR, 12430-RW01, and 12430-RW03.

Petroleum compounds detected above South Carolina established Risk-Based Screening Levels include:

- Benzene
  - 12430-MW01, 12430-MW02, 12430-MW04, 12430-MW12, 12430-MW12I, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23I, 12430-MW24, 12430-MW25, 12430-MW26, 12430-MW0X, 12430-MW0XR, 12430-RW01, 12430-RW03
- Toluene
  - 12430-MW01, 12430-MW12, 12430-MW12I, 12430-MW21, 12430-MW24, 12430-MW0X, 12430-RW01
- Ethylbenzene
  - 12430-MW01, 12430-MW12, 12430-MW12I, 12430-MW21, 12430-MW24, 12430-RW01
- Xylenes
  - 12430-MW01, 12430-MW24

- MTBE
  - 12430-MW20, 12430-MW21, 12430-MW23I, 12430-MW24, 12430-MW25, 12430-MW0X, 12430-RW01
- Naphthalene
  - 12430-MW12, 12430-MW12I, 12430-MW21, 12430-MW0X
- 1,2-DCA
  -
- EDB
  - 12430-MW24, 12430-RW01
- Ethyl-Tert-Butyl-Ether (ETBE)
  -
- Ethyl-Tert-Butyl-Alcohol (ETBA)
  -
- Tert-Amyl-Methyl-Ether (TAME)
  -
- Di-Isopropyl-Ether (DIPE)
  - 12430-MW20, 12430-MW21, 12430-MW23I, 12430-MW24, 12430-MW0X
- Ethanol
  - 12430-MW24,
- Tert-Butyl-Formate (TBF)
  -
- Tert-Butyl-Alcohol (TBA)
  -
- Tert-Amyl-Alcohol (TAA)
  - 12430-MW12, 12430-MW14, 12430-MW20, 12430-MW21, 12430-MW23I, 12430-MW24, 12430-MW25, 12430-MW0X, 12430-MW0XR, 12430-RW03

Free-phase petroleum product was detected in groundwater monitoring wells 12430-MW01 (sheen) and 12430-MW24 (sheen), and in recovery wells 12430-RW01 (sheen) and 12430-RW02 (0.15-feet).

The results of the laboratory analyses are summarized in **Table 2.** A benzene isoconcentration map is included as **Figure 3**. Laboratory data sheets are provided in **Appendix C**.

3.0 CONCLUSIONS

During the August 2020 comprehensive groundwater sampling event, free-phase petroleum product was detected in groundwater monitoring wells 12430-MW01 (sheen) and 12430-MW24 (sheen), and in

recovery wells 12430-RW01 (sheen) and 12430-RW02 (0.15-feet). However, it should be noted that current water levels in many of the wells associated with the site are significantly above the top of the well screen, precluding accurate gauging of free-product levels at the site.

Previous Aggressive Fluid Vapor Recovery (AFVR) events have been effective in significantly reducing free-product mass at the site. A series of Additional 96-hour Aggressive Fluid Vapor Recovery (AFVR) events should be implemented as soon as possible to continue free-phase petroleum product removal from the wells containing free-phase petroleum product or exhibiting dissolved phase groundwater concentrations of petroleum compounds approaching solubility limits. Groundwater sampling events should be implemented on a semi-annual schedule to monitor migration of the groundwater contaminant plume.

TABLES

TABLE 1
Monitoring Well and Groundwater Surface Elevation Data
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW01	1005.56	1005.32	08/13/2013	-	17.97	-	987.35	30.00	15.00 - 30.00	990.56 - 975.56
			03/31/2015	-	22.63	-	982.69			
			04/10/2017	25.21	29.37	4.16	978.86			
			04/24/2017	24.83	29.29	4.46	979.15			
			10/03/2017	24.28	29.31	5.03	979.53			
			03/12/2018	21.69	26.58	4.89	982.16			
			05/18/2018 Pre-AFVR	21.39	25.65	4.26	982.65			
			04/22/2019	17.00	17.20	0.20	988.26			
			01/13/2020 Pre-AFVR	21.15	21.59	0.44	984.04			
			08/19/2020	-	20.10	Sheen	985.22			
12430-MW02	1006.50	1006.20	08/13/2013	-	18.85	-	987.35	30.00	15.00 - 30.00	991.50 - 976.50
			03/31/2015	-	21.69	-	984.51			
			04/10/2017	-	27.44	-	978.76			
			10/03/2017	-	26.53	-	979.67			
			03/12/2018	-	23.82	-	982.38			
			04/22/2019	-	17.93	-	988.27			
			08/19/2020	-	20.96	-	985.24			
12430-MW03	1008.72	1008.49	08/13/2013	-	21.00	-	987.49	30.00	15.00 - 30.00	993.72 - 978.72
			03/31/2015	-	23.81	-	984.68			
			04/10/2017	DRY			NA			
			10/03/2017	DRY			NA			
			03/12/2018	-	26.51	-	981.98			
			04/22/2019	-	19.80	-	988.69			
			08/19/2020	-	22.69	-	985.80			
12430-MW04	1008.45	1008.27	03/31/2015	-	23.47	-	984.80	30.49	20.29 - 30.29	988.16 - 978.16
			04/10/2017	DRY			NA			
			10/03/2017	-	28.19	-	980.08			
			03/12/2018	-	25.86	-	982.41			
			04/22/2019	-	19.34	-	988.93			
			08/19/2020	-	22.24	-	986.03			
12430-MW04I	1008.35	1008.12	04/10/2017	-	29.36	-	978.76	53.17	47.97 - 52.97	960.38 - 955.38
			10/03/2017	-	28.35	-	979.77			
			03/12/2018	-	25.93	-	982.19			
			04/22/2019	-	19.68	-	988.44			
			08/19/2020	-	22.73	-	985.39			
12430-MW05	998.24	997.73	03/31/2015	-	13.01	-	984.72	20.80	10.60 - 20.60	987.64 - 977.64
			04/10/2017	-	18.61	-	979.12			
			10/03/2017	-	18.26	-	979.47			
			03/12/2018	-	15.20	-	982.53			
			04/22/2019	-	9.71	-	988.02			
			08/19/2020	-	13.33	-	984.40			
12430-MW06	998.58	998.27	03/31/2015	-	13.32	-	984.95	21.47	11.27 - 21.27	987.31 - 977.31
			04/10/2017	-	19.01	-	979.26			
			10/03/2017	-	18.25	-	980.02			
			03/12/2018	-	15.53	-	982.74			
			04/22/2019	-	9.71	-	988.56			
			08/19/2020	-	13.17	-	985.10			
12430-MW07	1006.27	1005.88	03/31/2015	-	19.61	-	986.27	31.04	20.84 - 30.84	985.43 - 975.43
			04/10/2017	DRY			NA			
			10/03/2017	-	25.52	-	980.36			
			03/12/2018	-	22.85	-	983.03			
			04/22/2019	-	17.13	-	17.13			
			08/19/2020	-	20.36	-	985.52			
12430-MW08	1007.86	1007.43	03/31/2015	-	22.71	-	984.72	31.10	20.90 - 30.90	986.96 - 976.96
			04/10/2017	-	28.58	-	978.85			
			10/03/2017	-	27.62	-	979.81			
			03/12/2018	-	25.04	-	982.39			
			04/22/2019	-	19.09	-	988.34			
			08/19/2020	-	22.13	-	985.30			
12430-MW09	1009.07	1008.55	03/31/2015	-	23.20	-	985.35	30.04	19.84 - 29.84	989.23 - 979.23
			04/10/2017	DRY			NA			
			10/03/2017	-	27.96	-	980.59			
			03/12/2018	-	25.74	-	982.81			
			04/22/2019	-	19.15	-	989.40			
			08/19/2020	-	22.03	-	986.52			
12430-MW10	1008.54	1008.22	03/31/2015	-	22.94	-	985.28	30.47	20.27 - 30.27	988.27 - 978.27
			04/10/2017	-	29.30	-	978.92			
			10/03/2017	-	26.98	-	981.24			
			03/12/2018	Car Parked Above Well						
			04/22/2019	-	18.03	-	990.19			
			08/19/2020	-	19.66	-	988.56			
12430-MW11	1008.26	1007.84	03/31/2015	-	22.82	-	985.02	30.83	20.63 - 30.63	987.63 - 977.63
			04/10/2017	-	29.37	-	978.47			
			10/03/2017	-	27.16	-	980.68			
			03/12/2018	-	25.70	-	982.14			
			04/22/2019	-	17.79	-	990.05			
			08/19/2020	-	20.34	-	987.50			

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW12	1005.64	1005.35	04/10/2017	-	26.59	-	978.76	35.69	25.49 - 35.49	980.15 - 970.15
			10/03/2017	-	25.39	-	979.96			
			03/12/2018	-	23.41	-	981.94			
			04/22/2019	-	18.38	-	986.97			
			08/19/2020	-	20.39	-	984.96			
12430-MW12I	1005.65	1005.37	04/10/2017	-	26.65	-	978.72	45.63	40.43 - 45.43	965.22 - 960.22
			10/03/2017	-	25.81	-	979.56			
			03/12/2018	-	23.05	-	982.32			
			04/22/2019	-	17.01	-	988.36			
			08/19/2020	-	20.25	-	985.12			
12430-MW14	1000.38	1000.02	04/10/2017	-	21.25	-	978.77	25.57	15.37 - 25.37	985.01 - 975.01
			10/03/2017	-	20.46	-	979.56			
			03/12/2018	-	17.75	-	982.27			
			04/22/2019	-	11.69	-	988.33			
			08/19/2020	-	15.06	-	984.96			
12430-MW14I	1000.31	1000.11	04/10/2017	-	21.41	-	978.70	67.92	62.72 - 67.72	937.59 - 932.59
			10/03/2017	-	20.64	-	979.47			
			03/12/2018	-	17.93	-	982.18			
			04/22/2019	-	12.13	-	987.98			
			08/19/2020	-	15.39	-	984.72			
12430-MW15	1000.15	999.88	04/10/2017	-	21.18	-	978.70	26.83	16.63 - 26.63	983.52 - 973.52
			10/03/2017	-	20.52	-	979.36			
			03/12/2018	-	17.70	-	982.18			
			04/22/2019	-	15.30	-	984.58			
			08/19/2020	-	15.37	-	984.51			
12430-MW15I	1000.06	999.88	04/10/2017	-	21.24	-	978.64	62.13	56.93 - 61.93	943.13 - 938.13
			10/03/2017	-	20.55	-	979.33			
			03/12/2018	-	17.78	-	982.10			
			04/22/2019	-	12.06	-	987.82			
			08/19/2020	-	15.37	-	984.51			
12430-MW16	1001.01	1000.63	04/10/2017	-	22.10	-	978.53	27.71	17.51 - 27.51	983.50 - 973.50
			10/03/2017	-	21.38	-	979.25			
			03/12/2018	-	18.59	-	982.04			
			04/22/2019	-	12.70	-	987.93			
			08/19/2020	-	16.04	-	984.59			
12430-MW16I	1001.10	1000.72	04/10/2017	-	22.11	-	978.61	65.49	60.29 - 65.29	940.81 - 935.81
			10/03/2017	-	21.41	-	979.31			
			03/12/2018	-	18.65	-	982.07			
			04/22/2019	-	12.86	-	987.86			
			08/19/2020	-	16.23	-	984.49			
12430-MW17	1000.25	999.85	04/10/2017	-	21.36	-	978.49	28.82	18.62 - 28.62	981.63 - 971.63
			10/03/2017	-	20.76	-	979.09			
			03/12/2018	-	17.81	-	982.04			
			04/22/2019	-	12.50	-	987.35			
			08/19/2020	-	16.26	-	983.59			
12430-MW17I	1000.44	1000.01	04/10/2017	-	21.46	-	978.55	60.41	55.21 - 60.21	945.23 - 940.23
			10/03/2017	-	20.82	-	979.19			
			03/12/2018	-	17.97	-	982.04			
			04/22/2019	-	11.74	-	988.27			
			08/19/2020	-	15.74	-	984.27			
12430-MW18	1003.14	1002.78	04/10/2017	-	24.38	-	978.40	29.30	19.10 - 29.10	984.04 - 974.04
			10/03/2017	-	23.61	-	979.17			
			03/12/2018	-	20.90	-	981.88			
			04/22/2019	NOT LOCATED						
			08/19/2020	NOT LOCATED						
12430-MW18I	1002.36	1001.89	03/12/2018	-	19.87	-	982.02	65.47	60.27 - 65.27	942.09 - 937.09
			04/22/2019	NOT LOCATED						
			08/19/2020	NOT LOCATED						
12430-MW19	1008.61	1008.24	04/10/2017	-	29.68	-	978.56	39.69	29.49 - 39.49	979.12 - 969.12
			10/03/2017	-	28.83	-	979.41			
			03/12/2018	-	26.07	-	982.17			
			04/22/2019	-	20.01	-	988.23			
			08/19/2020	-	23.43	-	984.81			
12430-MW19I	1008.55	1008.18	04/10/2017	-	29.57	-	978.61	70.68	65.48 - 70.48	943.07 - 938.07
			10/03/2017	-	28.82	-	979.36			
			03/12/2018	-	25.93	-	982.25			
			04/22/2019	-	20.24	-	987.94			
			08/19/2020	-	23.26	-	984.92			
12430-MW20	1008.40	1008.01	04/10/2017	-	29.41	-	978.60	40.87	30.67 - 40.67	977.73 - 967.73
			10/03/2017	-	28.22	-	979.79			
			03/12/2018	-	25.76	-	982.25			
			04/22/2019	-	22.19	-	985.82			
			08/19/2020	-	23.22	-	984.79			
12430-MW21	1007.16	1006.73	04/10/2017	-	28.06	-	978.67	35.14	24.94 - 34.94	982.22 - 972.22
			10/03/2017	-	27.19	-	979.54			
			03/12/2018	-	24.54	-	982.19			
			04/22/2019	-	18.89	-	987.84			
			08/19/2020	-	21.64	-	985.09			
12430-MW22	1007.45	1007.12	04/10/2017	-	28.31	-	978.81	35.06	24.86 - 34.86	982.59 - 972.59
			10/03/2017	-	27.30	-	979.82			
			03/12/2018	-	24.68	-	982.44			
			04/22/2019	-	18.69	-	988.43			
			08/19/2020	-	21.65	-	985.47			

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MW22I	1007.28	1007.03	04/10/2017	-	28.29	-	978.74	49.72	44.52 - 49.52	962.76 - 957.76
			10/03/2017	-	27.46	-	979.57			
			03/12/2018	-	24.73	-	982.30			
			04/22/2019	-	18.61	-	988.42			
			08/19/2020	-	22.02	-	985.01			
12430-MW23	1008.66	1008.24	04/10/2017	-	29.61	-	978.63	39.87	29.67 - 39.67	978.99 - 968.99
			10/03/2017	-	28.71	-	979.53			
			03/12/2018	-	26.14	-	982.10			
			04/22/2019	-	20.04	-	988.20			
			08/19/2020	-	23.16	-	985.08			
12430-MW23I	1008.66	1008.21	10/03/2017	-	28.73	-	979.48	61.69	56.49 - 61.49	952.17 - 947.17
			03/12/2018	-	26.02	-	982.19			
			04/22/2019	-	20.20	-	988.01			
			08/19/2020	-	23.40	-	984.81			
12430-MW24	1006.83	1006.39	04/10/2017	26.56	31.04	4.48	978.49	35.25	25.05 - 35.05	981.78 - 971.78
			04/24/2017	25.87	30.62	4.75	979.10			
			10/03/2017	25.29	31.56	6.27	979.22			
			03/12/2018	23.11	27.37	4.26	982.00			
			05/14/2018 Pre-AFVR	23.17	27.28	4.11	981.99			
			05/18/2018 Pre-AFVR	23.73	25.45	1.72	982.14			
			04/22/2019	18.40	20.12	1.72	987.47			
			01/13/2020 Pre-AFVR	23.14	23.95	0.81	983.01			
			08/19/2020	-	21.28	Sheen	985.11			
12430-MW25	1007.57	1007.27	04/10/2017	-	28.72	-	978.55	38.20	28.00 - 38.00	979.57 - 969.57
			10/03/2017	-	27.82	-	979.45			
			03/12/2018	-	25.13	-	982.14			
			04/22/2019	-	19.20	-	988.07			
			08/19/2020	-	22.45	-	984.82			
12430-MW26	1007.68	1007.33	04/10/2017	-	28.52	-	978.81	36.45	26.25 - 36.25	981.43 - 971.43
			10/03/2017	-	27.50	-	979.83			
			03/12/2018	-	24.94	-	982.39			
			04/22/2019	-	18.84	-	988.49			
			08/19/2020	-	21.78	-	985.55			
12430-MW26I	1007.67	1007.27	04/10/2017	-	28.53	-	978.74	55.11	49.91 - 54.91	957.76 - 952.76
			10/03/2017	-	27.50	-	979.77			
			03/12/2018	-	24.91	-	982.36			
			04/22/2019	-	19.05	-	988.22			
			08/19/2020	-	21.89	-	985.38			
12430-MW27	1007.24	1006.96	10/03/2017	-	27.26	-	979.70	34.70	24.50 - 34.50	982.74 - 972.74
			03/12/2018	-	24.99	-	981.97			
			04/22/2019	-	18.45	-	988.51			
			08/19/2020	-	21.43	-	985.53			
12430-MW27I	1007.49	1007.08	03/12/2018	-	25.20	-	981.88	65.41	60.21 - 65.21	947.28 - 942.28
			04/22/2019	-	18.86	-	988.22			
			08/19/2020	-	21.96	-	985.12			
12430-MW28	1007.08	1006.76	10/03/2017	-	26.82	-	979.94	35.91	25.71 - 35.71	981.37 - 971.37
			03/12/2018	-	24.20	-	982.56			
			04/22/2019	-	18.00	-	988.76			
			08/19/2020	-	21.36	-	985.40			
12430-RW01	1007.18	1006.69	04/10/2017	27.34	29.98	2.64	978.56	40.69	20.49 - 40.49	986.69 - 966.69
			04/17/2017	26.99	30.19	3.20	978.74			
			10/03/2017	25.62	31.71	6.09	979.24			
			03/12/2018	23.14	28.36	5.22	981.98			
			05/14/2018 Pre-AFVR	23.30	27.89	4.59	982.01			
			04/22/2019	18.00	20.35	2.35	987.99			
			01/13/2020 Pre-AFVR	22.45	24.64	2.19	983.58			
			08/19/2020	-	21.66	Sheen	985.03			
12430-RW02	1006.53	1006.23	04/10/2017	26.58	30.63	4.05	978.44	38.08	17.88 - 37.88	988.65 - 968.65
			04/24/2017	25.58	28.63	3.05	979.74			
			10/03/2017	25.61	30.26	4.65	979.23			
			03/12/2018	23.63	26.94	3.31	981.61			
			05/18/2018 Pre-AFVR	23.04	26.84	3.80	982.05			
			04/22/2019	-	18.18	-	988.05			
			08/19/2020	21.18	21.33	0.15	985.16			
12430-RW03	1006.17	1005.90	04/10/2017	-	27.19	-	978.71	40.00	19.80 - 39.80	986.37 - 966.37
			10/03/2017	-	26.29	-	979.61			
			03/12/2018	-	23.57	-	982.33			
			04/22/2019	-	17.70	-	988.20			
			08/19/2020	-	20.79	-	985.11			
12430-MWX	1007.47	1007.20	04/10/2017	28.53	NA	+1.47	NA	30.27	20.07 - 30.07	987.40 - 977.40
			04/17/2017	28.30	NA	+1.70	NA			
			10/03/2017	-	27.69	Sheen	979.51			
			03/12/2018	-	24.07	Sheen	983.13			
			05/14/2018 Pre-AFVR	-	24.93	-	982.27			
			04/22/2019	-	19.11	-	988.09			
			08/19/2020	-	22.26	-	984.94			

Monitoring Well	Ground Surface Elevation	Top-of-Casing Elevation	Date	Free-Product Depth Below Top-of-Casing	Groundwater Depth Below Top-of-Casing	Free-Product Thickness	Groundwater Elevation	Well Depth BGS	Screened Interval Depth	Screened Interval Elevation
12430-MWXR	1007.67	1007.31	04/10/2017	-	28.66	-	978.65	38.25	28.05 - 38.05	979.62 - 969.62
			04/17/2017	28.43	28.45	0.02	978.87			
			10/03/2017	-	27.83	Sheen	979.48			
			03/12/2018	-	25.06	-	982.25			
			04/22/2019	-	19.20	-	988.11			
			08/19/2020	-	22.45	-	984.86			

NOTES:
Measurements are in feet
BGS - below ground surface
Elevations are NAVD 88

TABLE 2
Summary of Groundwater Analytical Results
Westside Quick Stop - UST Permit #12430
Greenville, Greenville County, South Carolina

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW01	08/13/2013	-	***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.90***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***27000***	<10	NT
		-	***27000***	***54000***	***2700***	***13000***	***5200***	<500	***0.93***	<500	<500	<10000	<5000	***2600***	<50000	<2500	<10000	***28000***	<10	NT
	03/30/2015	-	***3000***	***6300***	***440***	***2500***	***800***	<20	<0.049	<7.4	<10	<75	<13	***68***	<960	<33	***180 J***	***1800***	<4.7	NT
		-	***3000***	***6200***	***420***	***2500***	***820***	<20	<0.0049	<7.4	<10	<75	<13	***67***	<960	<33	***190 J***	***1900***	<4.7	NT
	04/10/2017	***4.16***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***4.89***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/18/2018	***4.26***	AFVR Event Peformed - 05/18/2018 through 05/22/2018																	
	04/22/2019	***0.20***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/2020	***0.44***	AFVR Event Peformed - 01/13/2020 through 01/17/2020																	
	08/22/2020	***SHEEN***	***14000***	***43400***	***3050***	***16400***	<1240	<836	<0.011	<824	<3380	<21600	<1220	<1400	<57600	<9640	<36400	<26200	NT	NT
12430-MW02	08/13/2013	-	***1000***	***1000***	***200***	***570***	***23***	<20	<0.019	<20	<20	<400	<200	<100	<2000	<100	<400	***910***	<10	NT
	03/30/2015	-	***23000***	***51000***	***3200***	***15000***	***520***	***620***	***0.36***	<74	<100	<750	<130	***1600***	<9600	<330	<1100	***20000***	<4.7	NT
	04/11/2017	-	***851***	***659***	***139***	***562***	<8.5	<10.0	<0.021	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	**687**	22.0	NT
	03/19/2018	-	***545***	***710***	***134***	***924***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1240***	NT	<2.5
		-	***570***	***494***	***108***	***817***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1020***	NT	<2.5
	04/23/2019	-	***577***	***82.3***	***37.3***	***609***	<15.5	***11.9 J***	<0.011	<10.3	<42.3	<270	<15.2	<17.4	<720	<120	<455	***597***	NT	NT
	08/22/2020	-	***209***	***4.3 J***	<3.7	***120***	<6.2	***<4.2***	<0.011	<4.1	<16.9	<108	<6.1	<7.0	<288	<48.2	<182	<131	NT	NT
		-	***233***	***10.3***	***5.8 J***	***137***	<6.2	***<4.2***	<0.011	<4.1	<16.9	<108	<6.1	<7.0	<288	<48.2	<182	***132 J***	NT	NT
12430-MW03	08/13/2013	-	<1	<1	<1	<1	<1	<1	<0.020	<1	<1	<20	<10	<5	<100	<5	<20	<20	<10	NT
	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***9 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW04	03/30/2015	-	***41***	***31***	***6.7***	***63***	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	***4.4***	<19	<0.66	<2.3	***5.1 J***	***6.4 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	***241***	***11.3***	<3.2	***346***	<3.4	<4.0	<0.020	<3.6	<7.2	<64.2	<6.8	***12.5***	<262	<14.6	<115	<154	NT	NT
	04/23/2019	-	***160***	***24.0***	<3.7	***224***	<6.2	<4.2	<0.011	<4.1	<16.9	<108	<6.1	***45.1***	<288	<48.2	***277***	<131	NT	NT
	08/20/2020	-	***13.7***	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	***5.7***	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW04I	04/11/2017	-	***3.8 J***	***1.9 J***	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	***3.2 J***	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW05	03/31/2015	-	***0.22 J***	***0.70 J***	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW06	03/31/2015	-	***0.18 J***	***0.73 J***	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***14***	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	**46.4**	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	<2.5
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW07	03/31/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.019	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***4.8 J***	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW08	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***26***	***14 J***	<4.7	NT
	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW09	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	<4.7	NT
	04/10/2017	DRY																		
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW10	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.0049	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	***3.6 J***	<1.5	<4.7	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***286***	NT
	03/12/2018	NOT SAMPLED - CAR PARKED ABOVE MONITORING WELL																		
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW11	03/30/2015	-	<0.13	<0.33	<0.33	<0.33	<0.40	<0.40	<0.020	<0.15	<0.20	<1.5	<0.25	<0.40	<19	<0.66	<2.3	<1.5	***6.7 J***	NT
	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	***2.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***77.5 J***	***68.4***	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	<2.5
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW12	04/15/2017	-	***2050***	***3930***	***422***	***1580***	<34.0	<40.0	<0.019	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3010***	<2.5	NT
	03/19/2018	-	***1930***	***2840***	***383***	***1380***	<42.5	<50.0	<0.020	<45.0	<90.0	<802	<85.0	<42.5	<3280	<182	<1440	***3490***	NT	NT
	04/23/2019	-	***1820***	***3130***	***410***	***1600***	<62.0	<41.8	<0.011	<41.2	<169	<1080	<60.8	<69.8	<2880	<482	<1820	***4450***	NT	NT
	08/22/2020	-	***3440***	***9080***	***1270***	***5860***	<155	***110 J***	<0.011	<103	<423	<2700	<152	<174	<7200	<1200	<4550	***6780***	NT	NT
			3730	***8780***	***1200***	***5560***	<155	***105 J***	<0.011	<103	<423	<2700	<152	<174	<7200	<1200	<4550	***7980***	NT	NT
12430-MW12I	04/15/2017	-	***2700***	***6210***	***576***	***2740***	<68.0	<80.0	<0.020	<72.0	<144	<1280	<136	<68.0	<5240	<292	<2310	***3680 J***	<2.5	NT
	03/19/2018	-	***1440***	***2880***	***231***	***1570***	<34.0	***41.8 J***	<0.020	<36.0	<72.0	<642	<68.0	<34.0	<2620	<146	<1150	***3830***	NT	NT
	04/23/2019	-	***2460***	***3070***	***338***	***1770***	<62.0	***71.1 J***	<0.012	<41.2	<169	<1080	<60.8	***121***	<2880	<482	<1820	***4640***	NT	NT
	08/22/2020	-	***1820***	***5530***	***871***	***3910***	<155	***109 J***	<0.011	<103	<423	<2700	<152	<174	<7200	<1200	<4550	<3280	NT	NT
12430-MW14	04/11/2017	-	***746***	***748***	***80.5***	***476***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	***795 J***	<36.5	<288	***2050***	***3.1 J***	NT
			764	***749***	***79.6***	***462***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***2220***	***10.6***	NT
	03/12/2018	-	***526***	***535***	***59.1***	***374***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	<384	NT	NT
			520	***522***	***57.4***	***358***	<8.5	<10.0	<0.020	<9.0	<18.0	<160	<17.0	<8.5	<655	<36.5	<288	***1070***	NT	NT
	04/22/2019	-	***575***	***300***	***56.1***	***614***	<12.4	<8.4	<0.011	<8.2	<33.8	<216	<12.2	<14.0	<576	<96.4	<364	***3150***	NT	NT
	08/19/2020	-	***278***	***49.5***	***31.4***	***181***	<6.2	<4.2	<0.011	<4.1	<16.9	<108	<6.1	<7.0	<288	<48.2	<182	***1870***	NT	NT
12430-MW14I	04/11/2017	-	***33.4***	***16.0***	***2.6 J***	***15.0***	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	***111***	<2.5	NT
	03/12/2018	-	***3.4 J***	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW15	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW15I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW16	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	***2.8 J***	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW16I	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW17	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW17I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/19/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW18	04/11/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	NOT LOCATED																		
	08/20/2020	NOT LOCATED																		
12430-MW18I	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	NOT LOCATED																		
	08/20/2020	NOT LOCATED																		
12430-MW19	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW19I	04/10/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	3.2 J	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW20	04/10/2017	-	***341***	***286***	***26.1***	***119***	<4.2	<5.0	<0.020	<4.5	<9.0	<80.2	<8.5	***39.3***	<328	<18.2	<144	***1010***	<2.5	NT
	03/19/2018	-	***1620***	***1100***	***68.0***	***707***	<21.2	<25.0	***0.062***	<22.5	<45.0	<401	<42.5	***73.7***	<1640	<91.2	<721	***3740***	NT	NT
	04/23/2019	-	***1830***	***63.3***	***231***	***395***	<38.8	<26.1	<0.011	<25.8	<106	<674	<38.0	***170***	<1800	<301	<1140	***7910***	NT	NT
			1610	***62.6***	***209***	***372***	<38.8	***26.6 J***	<0.011	<25.8	<106	<674	<38.0	***157***	<1800	<301	<1140	***8490***	NT	NT
	08/20/2020	-	***1140***	***234***	***232***	***153***	***40.8 J***	***22.4 J***	<0.011	<20.6	<84.6	<539	<30.4	***221***	<1440	<241	<910	***10900***	NT	NT
12430-MW21	04/15/2017	-	***5520***	***1620***	***675***	***5700***	***1240***	***285***	***0.42***	<72.0	<144	<1280	<136	***585***	<5240	<292	<2310	***4390***	<2.5	NT
	03/19/2018	-	***3230***	***487***	***197***	***3660***	***732***	***404***	***0.16***	<36.0	<72.0	<642	<68.0	***329***	<2620	<146	<1150	***4530***	NT	NT
	04/23/2019	-	***3540***	***779***	***230***	***2070***	***560***	***288***	<0.011	<51.5	<212	<1350	<76.0	***264***	<3600	<602	<2280	***5590***	NT	NT
	08/22/2020	-	***3860***	***5310***	***2150***	***9260***	***817***	***690***	<0.011	<103	<423	<2700	<152	***208 J***	<7200	<1200	<4550	***11500***	NT	NT
12430-MW22	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	***0.074***	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/22/2020	-	***4.6 J***	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW22I	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	***37.6***	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	***79.8 J***	NT	NT
	08/22/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW23	04/10/2017	-	***1400***	<20.0	<20.0	<33.8	***47.4 J***	***72.4***	<0.020	<22.5	<45.0	<401	<42.5	***44.7 J***	<1640	<91.2	<721	***1030 J***	<2.5	NT
	03/19/2018	-	***381***	<6.4	<6.4	<20.0	***45.6***	***9.6 J***	<0.020	***8.8 J***	<14.4	<128	<13.6	***26.0***	<524	<29.2	<231	***909***	NT	NT
	04/23/2019	-	***2.8 J***	<2.0	<1.8	<5.0	***5.7***	<2.1	***0.12***	***3.0 J***	<8.5	<53.9	<3.0	***4.5 J***	<144	<24.1	<91.0	***72.8 J***	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW23I	10/03/2017	-	***115***	***4.9 J***	***3.1 J***	<5.0	***9.3***	***3.3 J***	<0.019	<1.8	<3.6	<32.1	<3.4	***16.3***	<131	<7.3	<57.7	***202***	<2.5	NT
			105	***4.5 J***	***2.9 J***	<5.0	***8.4***	***3.3 J***	<0.020	<1.8	<3.6	<32.1	<3.4	***14.8***	<131	<7.3	<57.7	***199***	<2.5	NT
	03/19/2018	-	***4840***	***67.5 J***	***68.5 J***	<125	***291***	***125***	***0.023***	<45.0	<90.0	<802	<85.0	***395***	<3280	<182	<1440	***10400***	NT	NT
	04/23/2019	-	***2260***	<40.2	<36.8	<100	***163***	***66.7 J***	***0.082***	<41.2	<169	<1080	<60.8	***224***	<2880	<482	<1820	***5760***	NT	NT
	08/20/2020	-	***2670***	***52.9 J***	<46.0	<125	***273***	<52.2	<0.011	<51.5	<212	<1350	<76.0	***372***	<3600	<602	<2280	***9640***	NT	NT
12430-MW24	04/10/2017	***4.48***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***4.26***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/14/2018	***4.11***	AFVR Event Peformed - 05/14/2018 through 05/18/2018																	
	05/18/2018	***1.72***	AFVR Event Peformed - 05/18/2018 through 05/22/2018																	
	04/22/2019	***1.72***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/2020	***0.81***	AFVR Event Peformed - 01/13/2020 through 01/17/2020																	
	08/22/2020	***SHEEN***	***26300***	***50700***	***3910***	***20000***	***20600***	<836	***3.4***	<824	<3380	<21600	<1220	***2160***	***94300***	<9640	<36400	***46000***	NT	NT
12430-MW25	04/15/2017	-	***11.6***	***2.0 J***	<1.6	<2.7	***3.7 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
			11.4	***2.5 J***	<1.6	<2.7	***3.5 J***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	***166***	***42.4***	<3.2	***56.6***	***11.8***	<4.0	<0.020	<3.6	<7.2	<64.2	<6.8	***4.2 J***	<262	<14.6	<115	***390***	NT	NT
	04/23/2019	-	***215***	<4.0	<3.7	***52.3***	***21.5***	<4.2	<0.011	<4.1	<16.9	<108	<6.1	<7.0	<288	<48.2	<182	***181 J***	NT	NT
	08/22/2020	-	***703***	***163***	***38.4***	***327***	***79.1***	<10.4	<0.011	<10.3	<42.3	<270	<15.2	<17.4	<720	<120	<455	***608***	NT	NT
12430-MW26	04/15/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	***15.2***	<1.6	<1.6	***14.0***	<1.7	<2.0	***0.056***	<1.8	<3.6	<32.1	<3.4	***2.7 J***	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	***39.0***	<2.0	<1.8	***33.9***	<3.1	<2.1	***0.045***	<2.1	<8.5	<53.9	<3.0	***4.7 J***	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	***15.4***	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW26I	04/15/2017	-	***2.6 J***	***2.8 J***	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	***1.8 J***	***7.1***	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW27	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
12430-MW27I	03/12/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	T	NT
12430-MW28	10/03/2017	-	<1.7	<1.6	<1.6	<2.7	<1.7	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	<2.5	NT
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	<1.7	<2.0	<0.019	<1.8	<3.6	<32.1	<3.4	<1.7	<131	<7.3	<57.7	<76.8	NT	NT
	04/22/2019	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/20/2020	-	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

		Free-Product Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	Naphthalene (µg/L)	EDB (µg/L)	1,2 DCA (µg/L)	ETBE (µg/L)	ETBA (µg/L)	TAME (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	TBF (µg/L)	TBA (µg/L)	TAA (µg/L)	Lead (µg/L)	Dissolved Lead (µg/L)
		---	RBSL 5	RBSL 1,000	RBSL 700	RBSL 10,000	RBSL 40	RBSL 25	RBSL 0.05	RBSL 5	RBSL 47	RBSL NE	RBSL 128	RBSL 150	RBSL 10,000	RBSL NE	RBSL 1,400	RBSL 240	RBSL 15	RBSL 15
12430-MW0X	04/10/2017	***>1.47***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***Sheen***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/14/2018	-	AFVR Event Peformed - 05/14/2018 through 05/18/2018																	
	04/23/2019	-	***1780***	***4760***	***364***	***2550***	***1480***	<83.6	***1.5***	<82.4	<338	<2160	<122	<140	<5760	<964	<3640	***6000***	NT	NT
	08/22/2020	-	***2880***	***7500***	***571***	***4130***	***2580***	***134 J***	<0.011	<103	<423	<2700	<152	<174	<7200	<1200	<4550	***4910 J***	NT	NT
			3220	***7440***	***550***	***4030***	***3270***	***109 J***	<0.012	<103	<423	<2700	<152	***223 J***	<7200	<1200	<4550	***5100***	NT	NT
12430-MW0XR	04/11/2017	-	***3580***	***9410***	***621***	***3390***	***516***	<200	<0.020	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	***18.2***	NS
	03/19/2018	-	<1.7	<1.6	<1.6	<5.0	***30.8***	<2.0	<0.020	<1.8	<3.6	<32.1	<3.4	***2.1 J***	<131	<7.3	<57.7	<76.8	NT	<2.5
	04/23/2019	-	<1.7	<2.0	<1.8	<5.0	***4.9 J***	<2.1	***0.21***	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
	08/22/2020	-	***45.6***	***5.7***	<1.8	***50.8***	***28.9***	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	***290***	NT	NT
12430-RW01	04/10/2017	***2.64***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***5.22***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/14/2018	***4.59***	AFVR Event Peformed - 05/14/2018 through 05/18/2018																	
	04/22/2019	***2.35***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	01/13/2020	***2.19***	AFVR Event Peformed - 01/13/2020 through 01/17/2020																	
	08/22/2020	***SHEEN***	***21500***	***35600***	***2320 J***	<5000	***105000***	<2090	***2.9***	<2060	<8460	<53900	<3040	<3490	<144000	<24100	<91000	<65600	NT	NT
12430-RW02	04/10/2017	***4.05***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/12/2018	***3.31***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/18/2018	***3.80***	AFVR Event Peformed - 05/18/2018 through 05/22/2018																	
	04/23/2019	-	***1470***	***7790***	***889***	***10500***	<155	***1070***	***0.059***	<103	<423	<2700	<152	<174	<7200	<1200	<4550	<3280	NT	NT
			1230	***6530***	***518***	***7320***	<310	***535***	***0.048***	<206	<846	<5390	<304	<349	<14400	<2410	<9100	<6560	NT	NT
	08/20/2020	***0.15***	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
12430-RW03	04/15/2017	-	***7020***	***12200***	***1890***	***9200***	***298 J***	***275 J***	<0.020	<180	<360	<3210	<340	***251 J***	<13100	<730	<5770	<7680	<2.5	NT
			6750	***11700***	***1890***	***9100***	***304 J***	***269 J***	<0.020	<180	<360	<3210	<340	***257 J***	<13100	<730	<5770	<7680	<2.5	NT
	03/19/2018	-	***5770***	***15400***	***2040***	***12100***	***205 J***	***261 J***	NT	<180	<360	<3210	<340	<170	<13100	<730	<5770	<7680	NT	NT
	04/23/2019	-	***108***	***139***	***42.2***	***485***	***23.7***	***13.2***	<0.011	<4.1	<16.9	<108	<6.1	***14.3***	<288	<48.2	<182	***713***	NT	NT
	08/22/2020	-	***84.7***	***35.3***	***38.4***	***188***	***6.5***	***3.0 J***	<0.011	<2.1	<8.5	<53.9	<3.0	***4.1 J***	<144	<24.1	<91.0	***259***	NT	NT
EQUIPMENT BLANK 1	08/19/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.012	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
EQUIPMENT BLANK 2	08/20/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
EQUIPMENT BLANK 3	08/22/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
FIELD BLANK 1	08/19/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
FIELD BLANK 2	08/20/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
FIELD BLANK 3	08/22/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	<0.011	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
TRIP BLANK 1	08/22/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	NT	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT
TRIP BLANK 2	08/22/2020	NA	<1.7	<2.0	<1.8	<5.0	<3.1	<2.1	NT	<2.1	<8.5	<53.9	<3.0	<3.5	<144	<24.1	<91.0	<65.6	NT	NT

NOTES:
RBSL - Risk Based Screening Level
Bold values indicate concentrations detected above the laboratory method detection limit.
Shaded values indicate concentrations exceeding RBSLs.
NE - Not Established
NT - Not Tested

FIGURES



Reference: USGS 7.5-Minute series Greenville Quadrangle - 2011; Contour Interval = 10 feet

500 250 0 500

APPROXIMATE SCALE IN FEET

N

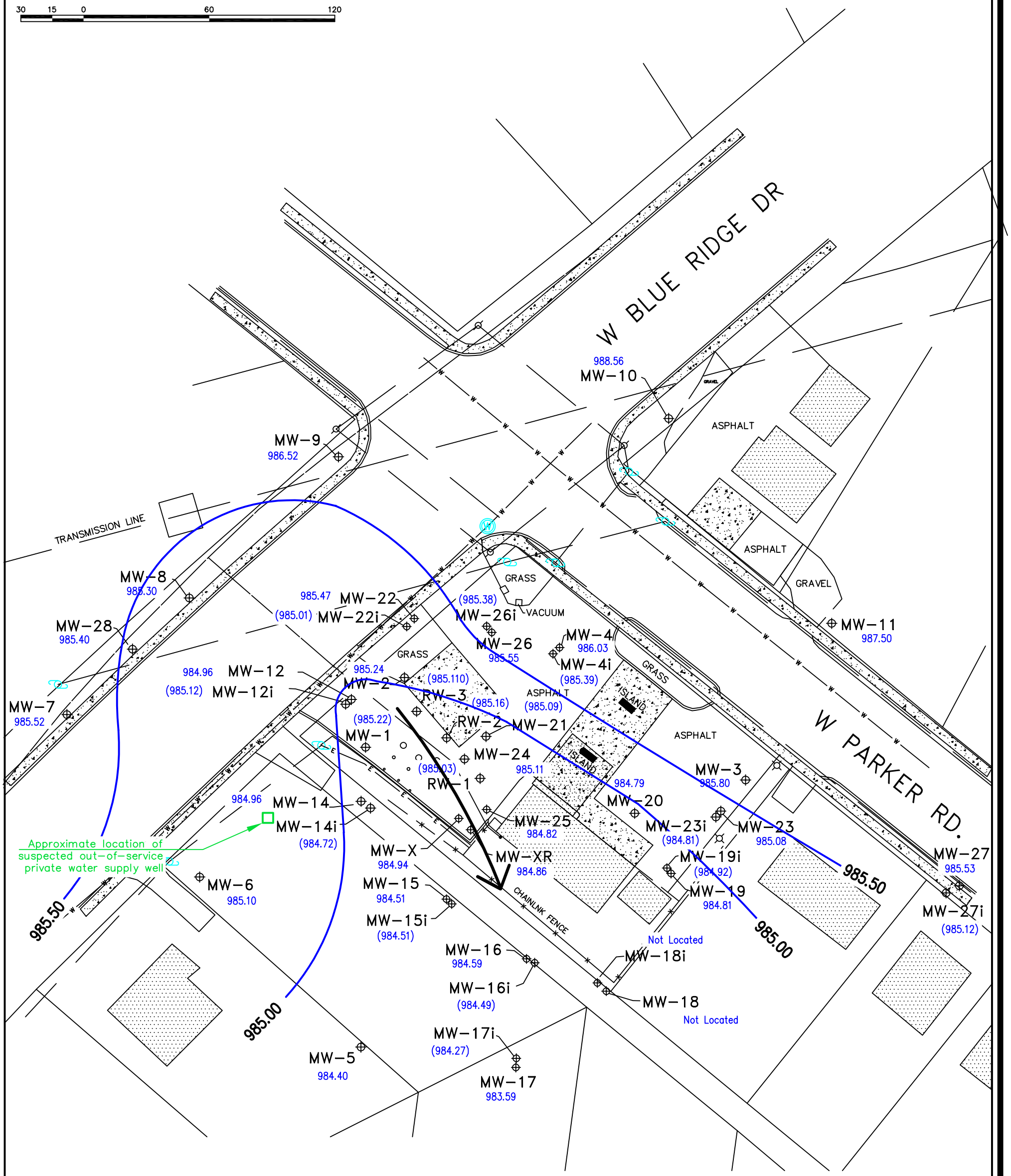
● SITE

Ⓦ Private Water Supply Well

Title	Site Location Map		
Project	Westside Quick Stop (UST Permit #12430) 821 W. Parker Road Greenville, South Carolina Greenville County		
Date	05/11/2019	petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS	Figure No. 1
Job No.	J19-687-A		

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120



Groundwater Monitoring Well

Groundwater Potentiometric Contour
Contour Interval = 0.5-feet

541.28 Groundwater Elevation (August 19, 2020)

(541.28) Groundwater Elevation Not Used For Contouring Purposes

Approximate Groundwater Flow Direction

N

Title	Groundwater Potentiometric Map – Shallow Interval
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	09/04/2020
Job No.	J20-898-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 2

REFERENCE: Site Survey by Souther Land Surveying dated 4 May 2017; Revised 2 October 2017; Revised 12 May 2018

30 15 0 60 120

W BLUE RIDGE DR

W PARKER RD.

MW-9 <1.7

MW-8 <1.7

MW-28 <1.7

MW-7 <1.7

MW-6 <1.7

MW-5 <1.7

MW-17 <1.7

MW-17i (<1.7)

MW-16 <1.7

MW-16i (<1.7)

MW-15 <1.7

MW-15i (<1.7)

MW-14 ND

MW-14i (<1.7)

MW-12 3440 / 3730

MW-12i (1820)

MW-2 209 / 233

MW-22 4.6

MW-22i (<1.7)

MW-26i (<1.7)

MW-26 15.4

MW-4 13.7

MW-4i (<1.7)

MW-11 <1.7

MW-3 <1.7

MW-27 <1.7

MW-27i (<1.7)

MW-19 <1.7

MW-19i (<1.7)

MW-23 <1.7

MW-23i (2670)

MW-20 1140

MW-21 3860

MW-25 703

MW-24 26300

RW-1 21500

RW-2 1470 / 1230

RW-3 84.7

W-1 14000

MW-X 2880 / 3220

MW-OXR 45.6

MW-18i Not Located

MW-18 Not Located

MW-10 <1.7

Approximate location of suspected out-of-service private water supply well

TRANSMISSION LINE

CHAINLNK FENCE

GRASS

ASPHALT

GRAVEL

VACUUM

ISLAND

5

50

500

Groundwater Monitoring Well

Free-Phase Petroleum Product Present

2.5J Benzene Concentration in Micrograms Per Liter

(2.5J) Benzene Concentration In Micrograms Per Liter Not Used For Contouring Purposes

Benzene Isoconcentration Line

N

Title	Benzene Isoconcentration Map – August 2020
Project	Westside Quick Stop (UST Permit #12430) 821 West Parker Road Greenville, South Carolina Greenville County
Date	09/04/2020
Job No.	J20-898-A

petra-tech ENVIRONMENTAL, LLC ENGINEERS & CONSULTANTS

Figure No. 3

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX A

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number

2. Page 1 of

3. Emergency Response Phone

4. Waste Tracking Number JH826201

5. Generator's Name and Mailing Address
Atra-Tech
Generator's Phone:

Generator's Site Address (if different than mailing address)
Cross Hill Station
28 North Main St
Cross Hill, SC 29332

6. Transporter 1 Company Name
Blue Frog Reclamation
U.S. EPA ID Number

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
Blue Frog Reclamation
15 Sulphur Springs Rd.
Greenville, SC 29617
Facility's Phone:
U.S. EPA ID Number

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Non Regulated PCW			3008	gal	Per State Fiscal 3,280 gallons
2.	Bucks Quick Stop - UST 11456 AFVR water ~3120 gallons					
3.	Westside Quick Stop - UST 12430 Purgewater ~160 gallons					
4.						

13. Special Handling Instructions and Additional Information
Job# 39921177

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Jimmy Slagh
Signature:
Month 8 Day 26 Year 20

INT'L
15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER
16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jeff Hunter
Signature:
Month 8 Day 26 Year 20
Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY
17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Lauren Wickel
Signature:
Month 9 Day 26 Year 20

9-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

WASTE MANIFEST

2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
		JH8272a

5. Generator's Name and Mailing Address: Blue Frog, 19 Sulphur Springs Rd, Greenville, SC 29617
Generator's Site Address (if different than mailing address): JH826 ZO A
Generator's Phone:

6. Transporter 1 Company Name: Blue Frog Reclamation — U.S. EPA ID Number

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address: JACOBS Utilities, 320 Studio Mill Rd, Belton, SC 29627 — U.S. EPA ID Number
Facility's Phone:

GENERATOR

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Non Regulated PCW			3000		Personal Hauler 3,280 gallons
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

Job# 39921177

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: Lauren Yuckel — Signature: Lauren Yuckel — Month: 8 Day: 27 Year: 26

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeff Hunter — Signature: [signature] — Month: 8 Day: 27 Year: 26

Transporter 2 Printed/Typed Name — Signature — Month Day Year

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: CLyde Strickland — Signature: Clyde Strickland — Month: 8 Day: 27 Year: 26

C-O 5 11977 (Rev. 9/09) TRANSPORTER #

17678789

TICKET NUMBER

CAT SCALE

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.©

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

*The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-26-20

SCALE: 745

LOCATION: PILOT
I 85 EXIT35
PIEDMONT SC

STEER AXLE	00 lb
DRIVE AXLE	17460 lb
TRAILER AXLE	42440 lb
* GROSS WEIGHT	59900 lb

15:37
17678789

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

IMPRINT SEAL HERE
(IF APPLICABLE)

DRIVER IN TRUCK UNLESS CHECKED HERE: ____

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY BLUE FROG TRACTOR # 1 TRAILER # 0

FEE $2.50 WEIGHMASTER OR WEIGHER SIGNATURE [signature] MISSY TICKET # OF FULL $ WEIGH (IF REWEIGH) 17678766

WEIGH NUMBER
8766

C-461421

CUSTOMER COPY

© CAT Scale® Reg 3071 1/20

Master Empty Weight Ticket

17678766
TICKET NUMBER

CERTIFIED AUTOMATED TRUCK SCALE

CAT SCALE COMPANY
P.O. BOX 630
WALCOTT, IA 52773
(877) 228-7225
www.catscale.com

12:00
17678766

PUBLIC WEIGHMASTER'S CERTIFICATE OF WEIGHT & MEASURE

IMPRINT SEAL HERE
(IF APPLICABLE)

WEIGH NUMBER
8766

CUSTOMER COPY

C-461421

THE CAT SCALE GUARANTEE

The CAT Scale Company guarantees that our scales will give an accurate weight. What makes us different from other scale companies is that we back up our guarantee with cash.®

WEIGH WHAT WE SAY OR WE PAY®

If you get an overweight fine from the state **AFTER** one of our CAT Scales showed a legal weight, we will immediately check our scale and we will:

(1) Reimburse you for the cost of the overweight fine if our scale is wrong, **OR**
(2) A representative of CAT Scale Company will appear in court **WITH** the driver as an expert witness if we believe our scale was correct.

WEIGH FASTER WITH OUR APP. FIND OUT MORE AT WEIGHMYTRUCK.COM

IF YOU SHOULD GET AN OVERWEIGHT FINE, YOU SHOULD DO THE FOLLOWING TO GET THE PROBLEM RESOLVED:

1) Post bond and request a court date.
2) Call CAT Scale Company direct 24 hours a day at 1-877-CAT-SCALE, ext. 7 (Toll Free) or visit www.catscaleguarantee.com for instructions.
3) **IMMEDIATELY** send a copy of the citation, CAT Scale Ticket, your name, company, address, and phone number to CAT Scale Company Attn: Guarantee Department.

* The four weights shown below are separate weights. The GROSS WEIGHT is the CERTIFIED WEIGHT and was weighed on a full length platform scale. All weights are guaranteed by CAT Scale.

DATE: 8-26-20

SCALE: 745

LOCATION: PILOT
I 85 EXIT 35
PIEDMONT SC

STEER AXLE	00 lb
DRIVE AXLE	12980 lb
TRAILER AXLE	19560 lb
* GROSS WEIGHT	32540 lb

This is to certify that the following described merchandise was weighed, counted, or measured by a public or deputy weighmaster, and when properly signed and sealed shall be prima facia evidence of the accuracy of the weight shown as prescribed by law.

LIVESTOCK, PRODUCE, PROPERTY, COMMODITY, OR ARTICLE WEIGHED FREIGHT ALL KINDS

COMPANY BLUE FROG

TRACTOR # _____ TRAILER # _____

FEE $12.00

WEIGHMASTER OR WEIGHER SIGNATURE _____

TICKET # OF FULL $ WEIGH (IF REWEIGH) _____

DRIVER IN TRUCK UNLESS CHECKED HERE: ☐

© CAT Scale® Reg 3071 1/20

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX B

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW01	SAMPLE ID: *12430-* MW01	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 20.10	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (30 feet – 20.10 feet) X 0.16 gallons/foot = 1.5 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 1401	PURGING ENDED AT: 1430	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1401	–	–	–	20.10	6.48	24.61	136	2.38	14	clr	Strong
1406	1.5	1.5	.3	20.96	6.32	24.27	120	2.18	126	cldy	↓
1412	1.0	2.5	.2	20.73	6.27	24.18	118	2.03	98	sl cldy	↓
1418	1.0	3.5	.2	20.76	6.24	24.15	115	1.89	27	clr	↓
1424	.5	4.0	.1	20.78	6.20	24.12	114	1.85	16.1	clr	↓
1430	.5	4.5	.1	20.79	6.20	24.16	112	1.82	9.0	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1430	SAMPLING ENDED AT: 1430
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	RFPP	

REMARKS: Screen noted.

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW02	SAMPLE ID: ~~12430~~ MW02	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 20.96	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30 feet – 20.96 feet) X 0.16 gallons/foot = 1.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 1121	PURGING ENDED AT: 1145	TOTAL VOLUME PURGED (gallons): 5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1121	–	–	–	20.96	6.72	24.52	162	2.48	14	clr	mod
1125	2	2	.5	21.38	6.41	24.38	120	1.97	602	clay	↓
1129	1.0	3	.3	21.61	6.37	24.21	117	1.83	207	clay	
1134	1.0	4	.2	21.63	6.32	24.18	115	1.80	38	clr	
1137	.5	4.5	.2	21.65	6.30	24.15	115	1.77	16.1	clr	
1142	.5	5.0	.1	21.66	6.30	24.12	114	1.25	12.5	clr	
1145	.5	5.5	.1	21.68	6.30	24.14	116	1.75	9.1	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1145	SAMPLING ENDED AT: 1145
PUMP OR TUBING DEPTH IN WELL (feet): 25	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: (Y) N @1150	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW03	SAMPLE ID: *12430-* MW03 DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 15 feet to 30 feet	STATIC DEPTH TO WATER (feet): 22.69	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (30 feet – 22.69 feet) X 0.16 gallons/foot = 1.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	PURGING INITIATED AT: 1533	PURGING ENDED AT: 1550	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1533	–	–	–	22.69	7.20	24.61	130	2.35	15	clr	N
1536	1.5	1.5	.5	22.84	6.87	24.22	124	2.20	9.2	cldy	N
1539	1.0	2.5	.3	22.86	6.71	24.19	114	2.18	25	clr	N
1542	.5	3.0	.1	22.85	6.68	24.17	117	2.16	13.8	clr	N
1547	.5	3.5	.1	22.89	6.65	24.15	115	2.14	16.1	clr	N
1550	.5	4.0	.1	22.87	6.63	24.15	115	2.15	8.0	clr	N

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1550	SAMPLING ENDED AT: 1550
PUMP OR TUBING DEPTH IN WELL (feet): 27	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced))	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW04	SAMPLE ID: *12430-* MW04	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 22.24	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.49 feet – 22.24 feet) X 0.16 gallons/foot = 1.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 1658	PURGING ENDED AT: 1715	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1658	–	–	–	22.24	6.71	24.32	135	1.96	14	clr	slight
1702	1.0	1.0	.3	22.36	6.62	24.11	126	1.82	68	slcldy	
1705	.5	1.5	.2	22.48	6.58	24.06	118	1.63	21	clr	
1709	.5	2.0	.1	22.45	6.56	24.02	114	1.59	13.8	clr	
1713	.5	2.5	.1	22.46	6.52	24.02	112	1.57	16.2	clr	
1715	.5	3.0	.1	22.49	6.52	24.01	112	1.54	9.1	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1715	SAMPLING ENDED AT: 1715
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW04i	SAMPLE ID: *12430-* MW04i	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 47 feet to 52 feet	STATIC DEPTH TO WATER (feet): 22.73	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (53.17 feet – 22.73 feet) X 0.16 gallons/foot = 4.87 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 50'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 50'	PURGING INITIATED AT: 1708	PURGING ENDED AT: 1750	TOTAL VOLUME PURGED (gallons): 15.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1708	–	–	–	22.73	6.85	24.82	145	2.46	10	clr	None
1722	7	7	.5	23.61	6.71	24.61	136	2.38	7.6	cldy	↓
1728	3	10	.5	23.48	6.62	24.43	127	2.27	9.7	sl dy	
1732	1.0	11	.3	23.62	6.49	24.40	122	2.22	24	clr	
1740	2.5	13.5	.3	23.66	6.45	24.40	119	2.16	18.6	clr	
1746	1.0	14.5	.2	23.69	6.40	24.38	116	2.13	12.1	clr	
1750	1.0	15.5	.2	23.68	6.28	24.37	116	2.11	8.6	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1750	SAMPLING ENDED AT: 1750
PUMP OR TUBING DEPTH IN WELL (feet): 50'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW05	SAMPLE ID: *12430-* MW05	DATE: 8/19/26

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 10 feet to 20 feet	STATIC DEPTH TO WATER (feet): 13.33	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (20.80 feet – 13.33 feet) X 0.16 gallons/foot = 1.1 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17	PURGING INITIATED AT: 1124	PURGING ENDED AT: 1145	TOTAL VOLUME PURGED (gallons): 3.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1124	–	–	–	13.33	6.81	24.62	162	2.93	8	clr	None
1127	.5	.5	.2	13.62	6.79	24.11	148	2.81	162	cldy	None
1130	.5	1.0	.2	13.71	6.72	24.08	138	2.62	81	sl cldy	↓
1132	.5	1.5	.1	13.72	6.68	24.02	129	2.56	16.2	clr	
1136	.5	2.0	.1	13.74	6.60	24.00	124	2.50	11.1	clr	
1142	.5	2.5	.1	13.75	6.59	24.01	120	2.49	13.2	clr	
1145	.5	3.0	.1	13.79	6.56	24.00	120	2.47	9.9	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1145	SAMPLING ENDED AT: 1145
PUMP OR TUBING DEPTH IN WELL (feet): 17'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	RFPP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW06	SAMPLE ID: *12430-*MW06	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 11 feet to 21 feet	STATIC DEPTH TO WATER (feet): 13.17	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (21.47 feet – 13.17 feet) X 0.16 gallons/foot = 1.3 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 17'	PURGING INITIATED AT: 1447	PURGING ENDED AT: 1505	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1447	–	–	–	13.17	6.38	24.61	102	2.78	10	clr	None
1452	1.0	1.0	.2	13.36	5.99	24.22	96	2.46	305	clay	↓
1457	1.5	2.5	.3	13.39	5.90	24.11	86	2.38	121	clay	
1500	1.5	3.0	.2	13.42	5.87	24.08	80	2.24	37	clr	
1502	1.5	3.5	.1	13.45	5.84	24.03	80	2.19	20	clr	
1505	1.5	4.0	.1	13.46	5.82	24.02	81	2.17	10	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1505	SAMPLING ENDED AT: 1505
PUMP OR TUBING DEPTH IN WELL (feet): 17'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina
WELL NO: MW07	SAMPLE ID: 12430- MW07
DATE: 8/20/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 20.36	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (31.04 feet – 20.36 feet) X 0.16 gallons/foot = 1.70 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 1219	PURGING ENDED AT: 1240	TOTAL VOLUME PURGED (gallons): 4.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1219	–	–	–	20.36	6.71	24.06	162	3.51	6	clr	N
1225	1.0	1.0	.2	20.61	6.62	24.32	147	2.82	86	sl cldy	N
1228	.5	1.5	.2	20.93	6.51	24.01	142	2.71	32	clr	N
1232	1.0	2.5	.2	20.97	6.48	23.92	139	2.59	16.1	clr	N
1235	0.5	3.0	.1	20.99	6.40	23.90	136	2.53	12.8	clr	N
1238	0.5	3.5	.1	20.98	6.39	23.89	136	2.50	11.1	clr	N
1240	0.5	4.0	.1	20.98	6.37	23.89	137	2.48	8.6	clr	N

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1240	SAMPLING ENDED AT: 1240
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW08	SAMPLE ID: 12430-MW08	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 22.13	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (31.10 feet – 22.13 feet) X 0.16 gallons/foot = 1.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 27'	PURGING INITIATED AT: 1114	PURGING ENDED AT: 1130	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1114	–	–	–	22.13	6.80	24.51	139	2.96	9	clr	None
1117	1.0	1.0	.3	22.61	6.61	23.82	125	2.68	237	cldy	
1119	.5	1.5	.2	22.75	6.55	23.76	116	2.41	45	clr	
1122	.5	2.0	.1	22.82	6.52	23.61	112	2.24	20	clr	
1125	.5	2.5	.1	22.83	6.48	23.54	109	2.25	13.4	clr	
1127	.5	3.0	.1	22.89	6.47	23.60	108	2.23	11.6	clr	
1130	.5	3.5	.1	22.86	6.45	23.60	106	2.20	9.5	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1130	SAMPLING ENDED AT: 1130
PUMP OR TUBING DEPTH IN WELL (feet): 27'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW09	SAMPLE ID: 12430- MW09	DATE: 8/20120

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 19 feet to 29 feet	STATIC DEPTH TO WATER (feet): 22.03	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (30.04 feet – 22.03 feet) X 0.16 gallons/foot = 1.2 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 26'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 26'	PURGING INITIATED AT: 1032	PURGING ENDED AT: 1055	TOTAL VOLUME PURGED (gallons): 5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1032	—	—	—	22.03	6.62	24.38	152	2.56	14	clr	None
1037	1.5	1.5	.3	22.22	6.41	24.22	146	2.42	201	clr	
1040	1.0	2.5	.3	22.29	6.29	24.19	142	2.38	102	clr	
1044	1.0	3.5	.3	22.34	6.26	24.17	139	2.27	37	clr	
1048	1.0	4.5	.2	22.36	6.22	24.15	137	2.24	16.8	clr	
1051	.5	5.0	.1	22.35	6.19	24.12	135	2.21	12.1	clr	
1055	.5	5.5	.1	22.34	6.17	24.10	134	2.20	9.2	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1055	SAMPLING ENDED AT: 1055

PUMP OR TUBING DEPTH IN WELL (feet): 26'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y (N) (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW10	SAMPLE ID: *12430-* MW10 — DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 19.66	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.47 feet – 19.66 feet) X 0.16 gallons/foot = 1.72 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25'	PURGING INITIATED AT: 1001	PURGING ENDED AT: 1015	TOTAL VOLUME PURGED (gallons): 3.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1001	—	—	—	19.66	6.61	24.82	91	2.83	11	clr	None
1004	1.0	1.0	.3	20.38	6.39	24.37	72	2.77	46	clr	↓
1007	1.0	2.0	.3	20.42	6.33	24.22	69	2.61	125	cldy	
1010	.5	2.5	.2	20.46	6.28	24.21	65	2.49	93	slcldy	
1013	.5	3.0	.2	20.44	6.25	24.19	65	2.45	20	clr	
1015	.5	3.5	.1	20.42	6.24	24.19	62	2.43	10	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1015	SAMPLING ENDED AT: 1015
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW11	SAMPLE ID: *12430-MW11* DATE: 3/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 20.34	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.83 feet – 20.34 feet) X 0.16 gallons/foot = 1.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 0916	PURGING ENDED AT: 0940	TOTAL VOLUME PURGED (gallons): 5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0916	—	—	—	20.34	6.91	24.36	141	2.81	8	clr	none
0921	1.5	1.5	.3	20.61	6.77	24.11	125	2.62	132	cldy	↓
0925	1.0	2.5	.3	20.69	6.61	24.17	106	2.51	96	sl cldy	
0929	1.0	3.5	.3	20.72	6.37	24.15	97	2.45	37	clr	
0932	.5	4.0	.2	20.74	6.29	24.13	95	2.39	20	clr	
0936	.5	4.5	.1	20.74	6.27	24.11	92	2.36	16.1	clr	
0940	.5	5.0	.1	20.73	6.27	24.10	89	2.34	9.0	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0940	SAMPLING ENDED AT: 0940
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW12	SAMPLE ID: 12430-MW12	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 20.39	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.69 feet – 20.39 feet) X 0.16 gallons/foot = 2.44 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	PURGING INITIATED AT: 1036	PURGING ENDED AT: 1100	TOTAL VOLUME PURGED (gallons): 7.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1036	–	–	–	20.39	6.46	24.11	162	1.45	12	clr	strong
1041	2.5	2.5	.5	20.62	6.38	23.96	148	1.36	61	cldy	↓
1044	1.0	3.5	.3	20.71	6.24	23.86	139	1.25	36	clr	
1051	2.0	5.5	.3	20.74	6.27	23.71	136	1.22	24	clr	
1056	1.0	6.5	.2	20.75	6.25	23.68	135	1.20	17.1	clr	
1100	1.0	7.5	.2	20.73	6.24	23.65	135	1.20	8	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1100	SAMPLING ENDED AT: 1100
PUMP OR TUBING DEPTH IN WELL (feet): 30'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW12i	SAMPLE ID: 12430-MW12i	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 40 feet to 45 feet	STATIC DEPTH TO WATER (feet): 20.25	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (45.63 feet – 20.25 feet) X 0.16 gallons/foot = 4.06 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 43	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 43	PURGING INITIATED AT: 0946	PURGING ENDED AT: 1025	TOTAL VOLUME PURGED (gallons): 11.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0946	–	–	–	20.25	6.72	23.82	160	2.45	21	clr	Strong
0952	3.0	3	.5	20.38	6.51	23.27	145	2.35	192	cldy	↓
1001	3.0	6.0	.3	20.96	6.36	23.36	123	2.18	105	cldy	
1008	2.0	8.0	.3	20.72	6.30	23.45	118	2.09	82	sl dy	
1012	1.0	9.0	.3	20.75	6.23	23.42	114	2.06	15.6	clr	
1018	1.0	10.0	.2	20.74	6.19	23.40	112	2.03	11.1	clr	
1025	1.5	11.5	.2	20.83	6.17	23.40	112	2.01	8.6	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1025	SAMPLING ENDED AT: 1025
PUMP OR TUBING DEPTH IN WELL (feet): 43	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW14	SAMPLE ID: 12430-MW14	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 15 feet to 25 feet	STATIC DEPTH TO WATER (feet): 15.06	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (25.57 feet – 15.06 feet) X 0.16 gallons/foot = 1.68 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 20	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 20	PURGING INITIATED AT: 1554	PURGING ENDED AT: 1615	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1554	–	–	–	15.06	6.21	24.68	130	2.81	10	clr	strong
1557	1.5	1.5	.5	16.21	5.97	24.21	118	2.12	241	cldy	↓
1600	.5	2.0	.2	16.38	5.86	24.11	112	2.16	86	cldy	
1603	.5	2.5	.2	16.35	5.83	24.08	106	2.11	27	clr	
1608	1.0	3.5	.2	16.32	5.77	24.06	102	2.08	13.6	clr	
1612	.5	4.0	.1	16.30	5.75	24.03	99	1.99	11.1	clr	
1615	.5	4.5	.1	16.30	5.72	24.01	96	1.97	9.6	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1615	SAMPLING ENDED AT: 1615
PUMP OR TUBING DEPTH IN WELL (feet): 20'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW14	SAMPLE ID: 12430-MW14	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 62 feet to 67 feet	STATIC DEPTH TO WATER (feet): 15.39	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (67.92 feet – 15.39 feet) X 0.16 gallons/foot = 8.40 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 65'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 65'	PURGING INITIATED AT: 1510	PURGING ENDED AT: 1545	TOTAL VOLUME PURGED (gallons): 15.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1510	–	–	–	15.39	6.12	24.87	2.62	2.81	16	clr	None
1529	9.5	9.5	.5	15.68	5.99	24.71	2.51	2.71	291	clr	↓
1533	2.0	11.5	.5	15.73	5.96	24.51	2.46	2.64	87	sl cldy	
1536	1.5	13.0	.5	15.75	5.89	24.50	2.39	2.66	24	clr	
1541	1.5	14.5	.3	15.77	5.88	24.50	2.37	2.63	126	clr	
1545	1.0	15.5	.2	15.77	5.86	24.48	2.35	2.61	8.1	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1545	SAMPLING ENDED AT: 1545
PUMP OR TUBING DEPTH IN WELL (feet): 65'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW15	SAMPLE ID: *12430-* MW15	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 16 feet to 26 feet	STATIC DEPTH TO WATER (feet): 15.30	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (26.83 feet – 15.30 feet) X 0.16 gallons/foot = 1.84 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 21	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 21	PURGING INITIATED AT: 1358	PURGING ENDED AT: 1425	TOTAL VOLUME PURGED (gallons): 5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1358	–	–	–	15.30	6.86	24.30	141	2.88	7	clr	None
1403	2.5	2.5	.5	15.36	6.71	24.11	126	2.61	28	clr	↓
1408	1.0	3.5	.2	15.42	6.62	24.08	117	2.45	34	clr	
1411	.5	4.0	.1	15.45	6.51	24.01	111	2.36	16.1	clr	
1416	.5	4.5	.1	15.49	6.47	23.99	99	2.32	12.7	clr	
1421	.5	5.0	.1	15.47	6.40	23.97	97	2.30	10.1	clr	
1425	.5	5.5	.1	15.45	6.38	23.95	94	2.29	8.2	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1425	SAMPLING ENDED AT: 1425
PUMP OR TUBING DEPTH IN WELL (feet): 21	TUBING MATERIAL CODE:	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW15i	SAMPLE ID: *12430-* MW15i	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 56 feet to 61 feet	STATIC DEPTH TO WATER (feet): 15.37	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (62.13 feet – 15.37 feet) X 0.16 gallons/foot = 7.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 59	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 59	PURGING INITIATED AT: 1313	PURGING ENDED AT: 1350	TOTAL VOLUME PURGED (gallons): 13.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1313	–	–	–	15.37	6.62	24.21	146	2.77	12	clr	None
1327	7.0	7.0	.5	16.81	6.47	24.38	135	2.61	381	cldy	↓
1330	1.5	8.5	.5	16.96	6.38	24.26	132	2.55	72	sl cldy	
1335	1.5	10.0	.3	16.94	6.27	24.21	128	2.48	26	clr	
1341	1.0	11.0	.2	17.03	6.24	24.19	126	2.45	13.8	clr	
1346	1.0	12.0	.2	17.01	6.22	24.20	126	2.45	11.3	clr	
1350	1.0	13.0	.2	17.05	6.19	24.26	126	2.43	8.1	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1350	SAMPLING ENDED AT: 1350
PUMP OR TUBING DEPTH IN WELL (feet): 59	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW16	SAMPLE ID: *12430-* MW16	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 17 feet to 27 feet	STATIC DEPTH TO WATER (feet): 16.04	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (27.71 feet – 16.04 feet) X 0.16 gallons/foot = 1.86 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 22	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 22	PURGING INITIATED AT: 1245	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED (gallons): 5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1245	–	–	–	16.04	6.48	25.68	106	2.71	13	clr	None
1248	1.5	1.5	.5	16.27	6.17	24.32	99	2.49	80	sl cldy	↓
1252	1.0	2.5	.3	16.38	6.16	24.19	97	2.46	61	sl cldy	
1257	1.0	3.5	.2	16.39	6.12	24.11	92	2.38	16	clr	
1302	.5	4.0	.1	16.43	6.10	24.08	89	2.32	11.1	clr	
1306	.5	4.5	.1	16.42	6.11	24.07	88	2.30	14.2	clr	
1310	.5	5.0	.1	16.45	6.08	24.05	86	2.30	9.8	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1310	SAMPLING ENDED AT: 1310
PUMP OR TUBING DEPTH IN WELL (feet): 22	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW16i	SAMPLE ID: *12430-* MW16i
DATE: 8/19/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60 feet to 65 feet	STATIC DEPTH TO WATER (feet): 16.23	PURGE PUMP TYPE OR BAILER: RFPP or (ESP) w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (65.49 feet – 16.23 feet) X 0.16 gallons/foot = 7.88 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 63	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 63	PURGING INITIATED AT: 1201	PURGING ENDED AT: 1235	TOTAL VOLUME PURGED (gallons): 15.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1201	–	–	–	16.23	6.47	24.68	148	2.51	18	clr	None
1217	8.0	8.0	.5	16.87	6.35	24.21	132	2.47	241	clay	
1220	1.5	9.5	.5	16.71	6.31	24.18	126	2.42	32	clr	
1224	2.0	11.5	.5	16.73	6.38	24.15	122	2.39	18.1	clr	
1229	2.5	14.0	.5	16.76	6.29	24.12	118	2.38	13.2	clr	
1232	.5	14.5	.2	16.79	6.27	24.11	116	2.39	15.6	clr	
1235	.5	15.0	.2	16.81	6.25	24.11	116	2.39	10	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1235	SAMPLING ENDED AT: 1235
PUMP OR TUBING DEPTH IN WELL (feet): 63	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW17	SAMPLE ID: *12430-* MW17	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 18 feet to 28 feet	STATIC DEPTH TO WATER (feet): 16.26	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (28.82 feet – 16.26 feet) X 0.16 gallons/foot = 2.00 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 24	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 24	PURGING INITIATED AT: 1716	PURGING ENDED AT: 1740	TOTAL VOLUME PURGED (gallons): 4.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1716	–	–	–	16.26	6.52	24.61	159	2.62	21	clr	None
1721	1.0	1.0	.2	16.47	6.48	24.23	162	2.56	286	clay	↓
1725	1.0	2.0	.2	16.61	6.39	24.16	148	2.51	37	clr	
1729	1.0	3.0	.2	16.58	6.37	24.18	146	2.49	21	clr	
1733	.5	3.5	.1	16.63	6.35	24.15	145	2.46	16.3	clr	
1737	.5	4.0	.1	16.68	6.32	24.15	145	2.42	12.8	clr	
1740	.5	4.5	.1	16.62	6.30	24.13	145	2.42	9.1	clr	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1740	SAMPLING ENDED AT: 1740
PUMP OR TUBING DEPTH IN WELL (feet): 24	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW17'	SAMPLE ID: *12430-* MW17'	DATE: 8/19/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 55 feet to 60 feet	STATIC DEPTH TO WATER (feet): 15.74	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (60.41 feet – 15.74 feet) X 0.16 gallons/foot = 7.14 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 58	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 58	PURGING INITIATED AT: 1621	PURGING ENDED AT: 1705	TOTAL VOLUME PURGED (gallons): 17.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1621	—	—	—	15.74	6.81	24.86	126	2.71	16	clr	None
1638	8.5	8.5	.5	16.82	6.23	24.11	134	2.68	82	sl clay	↓
1643	1.5	10.0	.3	17.11	6.18	24.63	102	2.59	105	clay	
1651	2.5	12.5	.3	16.96	6.17	24.00	99	2.55	26	clr	
1656	1.5	14.0	.3	16.92	6.14	24.01	98	2.53	13.9	clr	
1705	3.0	17.0	.3	16.90	6.12	24.01	96	2.51	8.2	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1705	SAMPLING ENDED AT: 1705
PUMP OR TUBING DEPTH IN WELL (feet): 58'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW18	SAMPLE ID: *12430-* DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260		
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011		

REMARKS: Not Located. Covered w/ Debris

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW18	SAMPLE ID: *12430-* DATE:

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (feet – feet) X gallons/foot = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260		
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011		

REMARKS:
Not located. Covered w/ debris.

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW19	SAMPLE ID: 12430- MW19	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 23.43	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (39.69 feet – 23.43 feet) X 0.16 gallons/foot = 2.60 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 34'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 34'	PURGING INITIATED AT: 1328	PURGING ENDED AT: 1355	TOTAL VOLUME PURGED (gallons): 6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1328	–	–	–	23.43	6.96	25.36	155	2.66	43	clr	None
1334	3.0	3.0	.5	23.68	6.87	24.89	148	2.65	162	clr	↓
1339	1.0	4.0	.2	23.72	6.78	24.78	142	2.48	38	clr	
1342	.5	4.5	.1	23.75	6.69	24.74	134	2.34	17.1	clr	
1347	.5	5.0	.1	23.77	6.65	24.72	137	2.35	13.2	↓	
1351	.5	5.5	.1	23.79	6.62	24.70	135	2.33	11.1		
1355	.5	6.0	.1	23.83	6.60	24.70	135	2.32	9.3	↓	↓

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1355	SAMPLING ENDED AT: 1355
PUMP OR TUBING DEPTH IN WELL (feet): 34'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW19;	SAMPLE ID: *12430-* MW19;	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 65 feet to 70 feet	STATIC DEPTH TO WATER (feet): 23.26	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (70.68 feet – 23.26 feet) X 0.16 gallons/foot = 7.58 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 67	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 67	PURGING INITIATED AT: 1236	PURGING ENDED AT: 1320	TOTAL VOLUME PURGED (gallons): 15.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1236	–	–	–	23.26	6.62	24.96	162	2.81	6	clr	None
1250	7.0	7.0	.5	23.82	6.58	24.78	149	2.63	28	clr	↓
1254	2.0	9.0	.5	23.71	6.51	24.82	145	2.55	105	cldy	
1301	2.0	11.0	.3	23.65	6.47	24.58	139	2.46	37	clr	
1308	2.0	13.0	.3	23.64	6.45	24.55	136	2.42	16.9	clr	
1312	1.0	14.0	.2	23.72	6.43	24.55	133	2.38	12.8	clr	
1316	.5	14.5	.1	23.75	6.42	24.53	132	2.34	10.1	clr	
1320	.5	15.0	.1	23.78	6.42	24.51	130	2.30	8.2	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1320	SAMPLING ENDED AT: 1320
PUMP OR TUBING DEPTH IN WELL (feet): 67'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW20	SAMPLE ID: *12430-* MW20	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 30 feet to 40 feet	STATIC DEPTH TO WATER (feet): 23.22	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40.87 feet – 23.22 feet) X 0.16 gallons/foot = 2.82 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1603	PURGING ENDED AT: 1630	TOTAL VOLUME PURGED (gallons): 5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1603	—	—	—	23.22	6.37	24.82	135	2.01	10	clr	Strong
1608	2.5	2.5	.5	23.38	6.12	24.61	126	2.38	83	sl dty	↓
1612	1.0	3.5	.3	23.42	5.99	24.22	118	1.96	78	sl dty	
1615	.5	4.0	.2	23.44	5.89	24.18	115	1.92	21	clr	
1621	.5	4.5	.1	23.44	5.86	24.17	110	1.87	13	clr	
1627	.5	5.0	.1	23.47	5.84	24.15	108	1.85	12	clr	
1630	.5	5.5	.1	23.49	5.82	24.15	107	1.83	10	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1630	SAMPLING ENDED AT: 1630
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW21	SAMPLE ID: *12430-*MW21	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 21.64	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.14 feet – 21.64 feet) X 0.16 gallons/foot = 2.16 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29	PURGING INITIATED AT: 1532	PURGING ENDED AT: 1600	TOTAL VOLUME PURGED (gallons): 5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1532	—	—	—	21.64	6.21	25.68	81	2.38	14	clr	strong
1538	1.0	1.0	.2	21.69	5.98	24.94	77	2.01	36	clr	↓
1543	1.0	2.0	.2	21.82	5.85	24.87	75	2.06	18.2	clr	
1547	1.0	3.0	.2	21.84	5.79	24.83	72	1.99	13.1	↓	
1552	1.0	4.0	.2	21.84	5.77	24.82	69	1.97	17.2		
1557	.5	4.5	.1	21.85	5.75	24.80	67	1.94	14.3		
1600	.5	5.0	.1	21.87	5.72	24.80	65	1.92	9.8	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1600	SAMPLING ENDED AT: 1600
PUMP OR TUBING DEPTH IN WELL (feet): 29	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW22	SAMPLE ID: *12430-* MW22 — DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 21.65	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.06 feet – 21.65 feet) X 0.16 gallons/foot = 2.14 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29	PURGING INITIATED AT: 0835	PURGING ENDED AT: 0905	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0835	—	—	—	21.65	6.81	24.38	112	2.68	14	clr	None
0840	1.5	1.5	.3	21.72	6.47	24.21	96	2.61	62	sl cldy	↓
0844	1.0	2.5	.3	21.79	6.29	24.16	93	2.46	37	clr	
0848	1.0	3.5	.3	21.83	6.26	24.19	89	2.39	21	clr	
0853	1.0	4.5	.2	21.84	6.24	24.17	85	2.34	16.8	clr	
0901	1.5	6.0	.2	21.84	6.23	24.15	85	2.32	12.9	clr	
0905	.5	6.5	.1	21.85	6.20	24.14	82	2.31	9.1	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT: 0905
PUMP OR TUBING DEPTH IN WELL (feet): 29	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW22i	SAMPLE ID: *12430-* MW22i — DATE: 8/22/20

PURGING DATA

22.02

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 44 feet to 49 feet	STATIC DEPTH TO WATER (feet): [redacted]	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)

= (49.72 feet – 22.02 feet) X 0.16 gallons/foot = 4.43 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 47	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 47	PURGING INITIATED AT: 0908	PURGING ENDED AT: 0945	TOTAL VOLUME PURGED (gallons): 13.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0908	–	–	–	22.02	6.36	24.28	152	2.11	18	clr	None
0921	6.5	6.5	.5	22.37	6.45	24.11	146	1.75	305	cldy	↓
0926	2.0	8.5	.4	22.61	6.37	23.87	142	1.69	79	sl dy	
0931	1.5	10.0	.3	22.63	6.32	23.81	139	1.66	26	clr	
0936	1.5	11.5	.3	22.62	6.28	23.80	137	1.64	16.8	clr	
0941	1.0	12.5	.2	22.65	6.28	23.79	135	1.62	12.1	↓	
0945	1.0	13.5	.2	22.68	6.27	23.77	135	1.61	8.1	↓	↓

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0945	SAMPLING ENDED AT: 0945
PUMP OR TUBING DEPTH IN WELL (feet): 47	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW23	SAMPLE ID: 12430-MW23	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 29 feet to 39 feet	STATIC DEPTH TO WATER (feet): 23.16	PURGE PUMP TYPE OR BAILER: RFPP or (ESP w/ controller)

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (39.87 feet – 23.16 feet) X 0.16 gallons/foot = 2.67 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 35	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 35	PURGING INITIATED AT: 1408	PURGING ENDED AT: 1435	TOTAL VOLUME PURGED (gallons): 5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1408	–	–	–	23.16	6.62	25.38	146	1.68	12	clr	None
1412	1.0	1.0	.2	23.62	6.38	25.19	135	1.62	84	slowy	↓
1416	1.0	2.0	.2	23.51	6.19	25.16	123	1.58	36	clr	
1419	.5	2.5	.2	23.55	6.13	25.11	116	1.52	29	clr	
1423	1.0	3.5	.2	23.59	6.05	25.08	112	1.49	18.6	clr	
1426	.5	4.0	.1	23.60	6.02	25.06	106	1.46	11.2	clr	
1431	.5	4.5	.1	23.59	5.99	25.05	104	1.45	14.1	clr	
1435	.5	5.0	.1	23.62	5.99	25.03	102	1.46	9.8	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1435	SAMPLING ENDED AT: 1435
PUMP OR TUBING DEPTH IN WELL (feet): 35	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW23i	SAMPLE ID: 12430- MW23i	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 56 feet to 61 feet	STATIC DEPTH TO WATER (feet): 23.40	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (61.64 feet – 23.40 feet) X 0.16 gallons/foot = 6.12 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 60	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 60	PURGING INITIATED AT: 1436	PURGING ENDED AT: 1515	TOTAL VOLUME PURGED (gallons): 14.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1436	–	–	–	23.40	6.55	25.11	172	1.42	10	clr	strong
1443	3.5	3.5	.5	23.46	6.48	24.83	148	1.39	123	cldy	
1449	3.0	6.5	.5	23.81	6.44	24.72	135	1.36	91	sl cldy	
1454	2.5	9.0	.5	23.62	6.39	24.68	123	1.32	25	clr	
1457	1.0	10.0	.3	23.64	6.32	24.65	112	1.29	18.1	clr	
1503	2.0	12.0	.3	23.64	6.28	24.62	104	1.28	12.3	clr	
1509	1.0	13.0	.2	23.75	6.26	24.60	107	1.27	11.1	clr	
1515	1.0	14.0	.2	23.72	6.25	24.60	105	1.25	8.0	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1515	SAMPLING ENDED AT: 1515
PUMP OR TUBING DEPTH IN WELL (feet): 60	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW24	SAMPLE ID: 12430- MW24	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 21.28	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (35.25 feet – 21.28 feet) X 0.16 gallons/foot = 2.23 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	PURGING INITIATED AT: 1632	PURGING ENDED AT: 1705	TOTAL VOLUME PURGED (gallons): 7.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1632	—	—	—	21.28	6.82	25.32	165	1.61	8	clr	Strong
1638	2.0	2.0	.3	21.36	6.71	24.86	138	1.03	126	clay	↓
1644	1.0	3.0	.2	21.41	6.45	24.71	132	1.01	80	sl cly	
1648	1.0	4.0	.2	21.42	6.43	24.68	128	0.96	29	clr	
1653	1.0	5.0	.2	21.48	6.40	24.63	124	0.94	18	clr	
1659	1.0	6.0	.2	21.52	6.40	24.59	122	0.92	12.1	clr	
1702	1.0	7.0	.2	21.50	6.42	24.60	120	0.92	11.2	clr	
1705	.5	7.5	.1	21.49	6.41	24.60	120	0.90	7.6	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1705	SAMPLING ENDED AT: 1705
PUMP OR TUBING DEPTH IN WELL (feet): 30'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS: sheen noted

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW25	SAMPLE ID: *12430-*MW25	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 22.45	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (38.20 feet – 22.45 feet) X 0.16 gallons/foot = 2.52 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33	PURGING INITIATED AT: 1240	PURGING ENDED AT: 1310	TOTAL VOLUME PURGED (gallons): 5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1240	—	—	—	22.45	146	24.81	145	1.62	18	clr	Strong
1248	1.5	1.5	.2	22.61	135	24.72	136	1.48	46	clr	↓
1251	.5	2.0	.2	22.65	129	24.61	121	1.46	39	clr	
1256	1.0	3.0	.2	22.68	124	24.55	118	1.41	26	clr	
1301	1.0	4.0	.2	22.68	118	24.52	114	1.38	16.3	clr	
1307	.5	4.5	.1	22.64	117	24.50	112	1.38	11.2	clr	
1310	.5	5.0	.1	22.69	115	24.50	112	1.38	9.1	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1316	SAMPLING ENDED AT: 1310

PUMP OR TUBING DEPTH IN WELL (feet): 33	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP (Y) N TUBING Y N (replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW26	SAMPLE ID: *12430-* MW26	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 26 feet to 36 feet	STATIC DEPTH TO WATER (feet): 21.78	PURGE PUMP TYPE OR BAILER: (RFPP) or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (36.45 feet – 21.78 feet) X 0.16 gallons/foot = 2.34 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 31	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 31	PURGING INITIATED AT: 1841	PURGING ENDED AT: 1910	TOTAL VOLUME PURGED (gallons): 5.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1841	–	–	–	21.78	6.81	24.62	97	1.68	12	clr	Slight
1845	1.0	1.0	.3	21.82	6.36	24.23	98	1.59	201	cldy	↓
1849	1.0	2.0	.3	21.87	6.34	24.18	93	1.53	37	clr	
1856	1.5	3.5	.2	21.92	6.29	24.17	84	1.60	26	clr	
1902	1.0	4.5	.2	21.91	6.29	24.15	87	1.49	13.1	clr	
1907	.5	5.0	.1	21.94	6.28	24.14	85	1.48	10.9	clr	
1910	.5	5.5	.1	21.95	6.28	24.12	85	1.47	9.6	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1910	SAMPLING ENDED AT: 1910

PUMP OR TUBING DEPTH IN WELL (feet): 31	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm

FIELD DECONTAMINATION: PUMP Y (N) TUBING Y (N replaced) DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME:	SITE LOCATION:	
Westside Quick Stop– UST Permit 12430	821 W. Parker Road, Greenville, South Carolina	
WELL NO: MW26i	SAMPLE ID: 12430- MW26i	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
2	3/8"	49 feet to 54 feet	21.89	RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (55.11 feet – 21.89 feet) X 0.16 gallons/foot = 5.31 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):
52	52	1752	1835	14

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1752	–	–	–	21.89	6.82	24.82	145	2.41	16	clr	None
1806	7.0	7.0	.5	21.99	6.61	24.11	136	1.99	185	cldy	
1813	2.0	9.0	.2	22.11	6.47	24.06	124	1.96	121	cldy	
1817	1.0	10.0	.3	22.15	6.38	24.03	119	1.93	72	sl cldy	
1820	1.0	11.0	.4	22.13	6.35	24.02	117	1.89	68	sl cldy	
1825	1.0	12	.2	22.15	6.29	24.10	113	1.88	12.6	clr	
1831	1.0	13	.2	22.17	6.29	24.00	112	1.88	15.8	clr	
1835	1.0	14	.2	22.18	6.27	24.01	112	1.87	9.5	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT):	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
J. Slagh / T. Slack / T. Kassing		1835	1835

PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
52	PE		

FIELD DECONTAMINATION: PUMP Y N TUBING Y N (replaced) DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

RCL 36 DFS 103 → 111 UAL 125 → 14, VOM 48 Dnl 148 ↓ 172

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW27	SAMPLE ID: *12430-* MW27
DATE: 8/20/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 24 feet to 34 feet	STATIC DEPTH TO WATER (feet): 21.43	PURGE PUMP TYPE OR BAILER: ~~RFPP~~ or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (34.70 feet – 21.43 feet) X 0.16 gallons/foot = 2.12 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29	PURGING INITIATED AT: 0830	PURGING ENDED AT: 0905	TOTAL VOLUME PURGED (gallons): 6.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0830	—	—	—	21.43	6.81	24.82	120	2.61	8	clr	None
0839	2.0	2.0	.2	21.61	6.56	24.31	105	2.38	72	sl dny	↓
0843	1.0	3.0	.2	21.82	6.42	24.28	96	2.11	36	clr	
0849	1.0	4.0	.2	21.85	6.38	24.26	92	2.08	20.1	clr	
0855	1.0	5.0	.2	21.89	6.34	24.25	89	2.02	19.8	clr	
0901	.5	5.5	.1	21.92	6.32	24.22	88	2.01	12.3	clr	
0905	.5	6.0	.1	21.90	6.30	24.21	87	1.99	8.4	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0905	SAMPLING ENDED AT: 0905
PUMP OR TUBING DEPTH IN WELL (feet): 29	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y (N)	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	RFPP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*	
WELL NO: MW27i	SAMPLE ID: *12430-* MW27i	DATE: 8/20/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 60 feet to 65 feet	STATIC DEPTH TO WATER (feet): 21.96	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (65.41 feet – 21.96 feet) X 0.16 gallons/foot = 6.95 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 62	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 62	PURGING INITIATED AT: 0801	PURGING ENDED AT: 0835	TOTAL VOLUME PURGED (gallons): 11.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0801	–	–	–	21.96	6.32	24.61	125	2.61	10	clr	None
0812	5.5	5.5	.5	22.11	6.14	24.26	116	2.48	48	slt cldy	
0819	2.0	7.5	.3	22.13	6.16	24.11	102	2.39	16.1	clr	
0824	1.0	8.5	.2	22.15	6.18	24.08	99	2.37	12.8	clr	
0831	1.5	10.0	.2	22.19	6.18	24.07	97	2.35	11.3	clr	
0835	1.0	11.0	.3	22.20	6.19	24.06	95	2.35	9.1	clr	

WELL CAPACITY (Gallons Per Foot): **0.75"** = 0.02; **1"** = 0.04; **1.25"** = 0.06; **2"** = 0.16; **3"** = 0.37; **4"** = 0.65; **5"** = 1.02; **6"** = 1.47; **12"** = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): **1/8"** = 0.0006; **3/16"** = 0.0014; **1/4"** = 0.0026; **5/16"** = 0.004; **3/8"** = 0.006; **1/2"** = 0.010; **5/8"** = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 0835	SAMPLING ENDED AT: 0835
PUMP OR TUBING DEPTH IN WELL (feet): 62	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: MW28	SAMPLE ID: *12430-* MW28
DATE: 8/20/20	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 25 feet to 35 feet	STATIC DEPTH TO WATER (feet): 21.36	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (35.91 feet – 21.36 feet) X 0.16 gallons/foot = 2.32 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	PURGING INITIATED AT: 1137	PURGING ENDED AT: 1210	TOTAL VOLUME PURGED (gallons): 6.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1137	—	—	—	21.36	6.48	24.69	110	2.71	15	clr	None
1143	2.0	2	.3	21.61	6.31	24.38	102	2.68	205	cldy	
1151	1.5	3.5	.2	21.82	6.26	24.27	99	2.55	37	clr	
1156	1.0	4.5	.2	21.85	6.24	24.17	97	2.48	16.1	clr	
1201	1.0	5.5	.2	21.83	6.20	24.15	95	2.42	12.8	clr	
1206	.5	6	.1	21.86	6.18	24.14	95	2.39	11.1	clr	
1210	.5	6.5	.1	21.89	6.17	24.12	95	2.38	9.1	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1210	SAMPLING ENDED AT: 1210
PUMP OR TUBING DEPTH IN WELL (feet): 30'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: RW01	SAMPLE ID: *12430-* RW01	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 40 feet	STATIC DEPTH TO WATER (feet): 21.66	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40.69 feet – 21.66 feet) X 0.65 gallons/foot = 12.36 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 30'	PURGING INITIATED AT: 1630	PURGING ENDED AT: 1740	TOTAL VOLUME PURGED (gallons): 24.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1630	—	—	—	21.66	6.83	25.86	162	1.81	13	clr	Strong
1643	6.5	6.5	.5	21.82	6.21	25.37	171	1.32	62	slday	
1652	4.5	11.0	.5	21.99	6.19	25.21	165	1.21	21	clr	
1701	4.5	15.5	.5	22.31	6.11	25.19	162	1.20	17.2	clr	
1705	1.0	16.5	.3	22.27	6.15	25.17	158	1.17	18.3	clr	
1712	1.5	18	.2	22.25	6.13	25.15	155	1.15	16.1	clr	
1719	1.5	19.5	.2	22.24	6.10	25.12	155	1.15	12.1		
1724	1.0	20.5	.2	22.25	6.09	25.11	154	1.12	14.8		
1733	2.0	22.5	.2	22.26	6.10	25.08	154	1.12	13.3		
1740	1.5	24.0	.2	22.29	6.10	25.11	155	1.13	10		

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1740	SAMPLING ENDED AT: 1740
PUMP OR TUBING DEPTH IN WELL (feet): 30'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: *Westside Quick Stop– UST Permit 12430*	SITE LOCATION: *821 W. Parker Road, Greenville, South Carolina*
WELL NO: RW02	SAMPLE ID: *12430-* DATE: 8/22/20

PURGING DATA 21.18/21.33

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: 17 feet to 37 feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (38.08 feet – feet) X gallons/foot = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):	FINAL PUMP OR TUBING DEPTH IN WELL (feet):	PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **PP** = Peristaltic Pump; **O** = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
PUMP OR TUBING DEPTH IN WELL (feet):	TUBING MATERIAL CODE:	FIELD-FILTERED: Y N Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: Y N	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260		
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011		

REMARKS: Not Sampled Free Product

MATERIAL CODES: **AG** = Amber Glass; **CG** = Clear Glass; **HDPE** = High Density Polyethylene; **LDPE** = Low Density Polyethylene; **PP** = Polypropylene; **S** = Silicone; **T** = Teflon; **O** = Other (Specify)

SAMPLING EQUIPMENT CODES: **APP** = After (Through) Peristaltic Pump; **B** = Bailer; **BP** = Bladder Pump; **ESP** = Electric Submersible Pump; **RFPP** = Reverse Flow Peristaltic Pump; **SM** = Straw Method (Tubing Gravity Drain); **O** = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: RW03	SAMPLE ID: 12430- RW03	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 4	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 19 feet to 34 feet	STATIC DEPTH TO WATER (feet): 20.79	PURGE PUMP TYPE OR BAILER: RFPP or ESP w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (40 feet – 20.79 feet) X 0.65 gallons/foot = 12.48 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 29	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 29	PURGING INITIATED AT: 1403	PURGING ENDED AT: 1520	TOTAL VOLUME PURGED (gallons): 33.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1403	—	—	—	20.79	6.47	25.38	181	1.93	12	clr	mud
1418	7.5	7.5	.5	20.82	6.32	25.27	162	1.81	84	sl cldy	
1427	9.0	16.5	.5	20.91	6.11	25.21	138	1.72	37	clr	
1439	5.0	21.5	.4	20.93	5.93	25.16	148	1.61	62	sl cldy	
1448	3.5	25	.4	20.96	5.84	25.14	135	1.45	14.3	clr	
1453	1.5	26.5	.3	20.99	5.87	25.14	129	1.42	21	clr	
1503	3.0	29.5	.3	21.11	5.83	25.08	124	1.38	18.2	clr	
1510	2.0	31.5	.3	21.03	5.82	25.02	122	1.36	17.1	clr	
1516	1.0	32.5	.2	21.01	5.82	25.00	120	1.35	12.3	clr	
1520	1.0	33.5	.2	20.98	5.80	25.00	120	1.32	9.5	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1520	SAMPLING ENDED AT: 1520
PUMP OR TUBING DEPTH IN WELL (feet): 29'	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y N (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)			INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH			
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MWX	SAMPLE ID: 12430- MWX	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 20 feet to 30 feet	STATIC DEPTH TO WATER (feet): 22.26	PURGE PUMP TYPE OR BAILER: RFPP or ~~ESP~~ w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY
(only fill out if applicable)
= (30.27 feet – 22.26 feet) X 0.16 gallons/foot = 1.28 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 25	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 25	PURGING INITIATED AT: 1312	PURGING ENDED AT: 1345	TOTAL VOLUME PURGED (gallons): 5.0

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1312	–	–	–	22.26	6.81	24.68	132	2.46	16	clr	Strong
1314	1.0	1.0	.1	22.38	6.46	24.22	105	2.38	28	cldy	
1326	1.5	2.5	.2	22.34	6.38	24.14	99	2.19	16.1	cldy	
1332	1.0	3.5	.2	22.42	6.41	24.15	96	2.15	12.3	cldy	
1336	.5	4.0	.1	22.44	6.02	24.13	92	2.13	14.5	cldy	
1341	.5	4.5	.1	22.45	5.99	24.10	94	2.11	11.6	cldy	
1345	.5	5.0	.1	22.44	5.97	24.10	92	2.11	9.8	cldy	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016
PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1345	SAMPLING ENDED AT: 1345
PUMP OR TUBING DEPTH IN WELL (feet): 25'	TUBING MATERIAL CODE: ~~HDPE~~ PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP Y N	TUBING Y N (replaced)	DUPLICATE: (Y) N @ 1350	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	ESP	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

GROUNDWATER SAMPLING LOG

SITE NAME: Westside Quick Stop– UST Permit 12430	SITE LOCATION: 821 W. Parker Road, Greenville, South Carolina	
WELL NO: MWXR	SAMPLE ID: 12430-MWXR	DATE: 8/22/20

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 3/8"	WELL SCREEN INTERVAL DEPTH: 28 feet to 38 feet	STATIC DEPTH TO WATER (feet): 22.45	PURGE PUMP TYPE OR BAILER: RFPP or (ESP) w/ controller

WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH – STATIC DEPTH TO WATER) X WELL CAPACITY (only fill out if applicable)

= (38.25 feet – 22.45 feet) X 0.16 gallons/foot = 2.52 gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet): 33	FINAL PUMP OR TUBING DEPTH IN WELL (feet): 33	PURGING INITIATED AT: 1152	PURGING ENDED AT: 1230	TOTAL VOLUME PURGED (gallons): 7.5

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (circle units) µmhos/cm or µS/cm	DISSOLVED OXYGEN (circle units) mg/L or % saturation	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1152	–	–	–	22.45	6.36	25.11	162	2.78	15	clr	mild
1203	3.0	3.0	.3	22.53	6.08	24.89	146	2.61	28	clr	
1209	1.5	4.5	.2	22.56	6.11	24.71	135	2.45	72	sludy	
1216	1.5	6.0	.2	22.59	6.05	24.65	127	2.42	21	clr	
1221	1.5	6.5	.1	22.61	6.02	24.61	127	2.39	16.8	clr	
1226	1.5	7.0	.1	22.60	5.99	24.60	127	2.38	13.1	clr	
1230	1.5	7.5	.1	22.61	5.97	24.60	127	2.38	9.6	clr	

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

PURGING EQUIPMENT CODES: B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump; O = Other (Specify)

SAMPLING DATA

SAMPLED BY (PRINT): J. Slagh / T. Slack / T. Kassing	SAMPLER(S) SIGNATURE(S):	SAMPLING INITIATED AT: 1230	SAMPLING ENDED AT: 1230
PUMP OR TUBING DEPTH IN WELL (feet): 33	TUBING MATERIAL CODE: PE	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm
FIELD DECONTAMINATION: PUMP (Y) N	TUBING Y (N) (replaced)	DUPLICATE: Y (N)	

SAMPLE CONTAINER SPECIFICATION				SAMPLE PRESERVATION (including wet ice)					
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH	INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE	SAMPLE PUMP FLOW RATE (mL per minute)
	3	AG	40ml	HCL	Pre-Preserved	n/a	8260	ESP	
	2	AG	40ml	HCL	Pre-Preserved	n/a	8011	↓	

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; HDPE = High Density Polyethylene; LDPE = Low Density Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING EQUIPMENT CODES: APP = After (Through) Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); O = Other (Specify)

NOTES: STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS

pH: ± 0.1 units **Temperature:** ± 5% **Specific Conductance:** ± 5% **Dissolved Oxygen:** ± 0.2 mg/L **Turbidity:** ≤ 10 NTU or ± 5%

WESTSIDE QUICK STOP – UST PERMIT #12430

APPENDIX C

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

August 31, 2020

Trever Slack
Petra-Tech Environmental, LLC
2435 E. North Street
Suite 1108-202
Greenville, SC 29615

RE: Project: West Side Quick Stop
Pace Project No.: 92492178

Dear Trever Slack:

Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Charlotte

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: West Side Quick Stop
Pace Project No.: 92492178

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Virginia/VELAP Certification #: 460221

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492178001	MW01	Water	08/22/20 14:30	08/24/20 11:00
92492178002	MW02	Water	08/22/20 11:45	08/24/20 11:00
92492178003	MW03	Water	08/20/20 15:50	08/24/20 11:00
92492178004	MW04	Water	08/20/20 17:15	08/24/20 11:00
92492178005	MW04I	Water	08/20/20 17:50	08/24/20 11:00
92492178006	MW05	Water	08/19/20 11:45	08/24/20 11:00
92492178007	MW06	Water	08/19/20 15:05	08/24/20 11:00
92492178008	MW07	Water	08/20/20 12:40	08/24/20 11:00
92492178009	MW08	Water	08/20/20 11:30	08/24/20 11:00
92492178010	MW09	Water	08/20/20 10:55	08/24/20 11:00
92492178011	MW10	Water	08/20/20 10:15	08/24/20 11:00
92492178012	MW11	Water	08/20/20 09:40	08/24/20 11:00
92492178013	MW12	Water	08/22/20 11:00	08/24/20 11:00
92492178014	MW12I	Water	08/22/20 10:25	08/24/20 11:00
92492178015	MW14	Water	08/19/20 16:15	08/24/20 11:00
92492178016	MW14I	Water	08/19/20 15:45	08/24/20 11:00
92492178017	MW15	Water	08/19/20 14:25	08/24/20 11:00
92492178018	MW15I	Water	08/19/20 13:50	08/24/20 11:00
92492178019	MW16	Water	08/19/20 13:10	08/24/20 11:00
92492178020	MW16I	Water	08/19/20 12:35	08/24/20 11:00
92492178021	MW17	Water	08/19/20 17:40	08/24/20 11:00
92492178022	MW17I	Water	08/19/20 17:05	08/24/20 11:00
92492178023	MW19	Water	08/20/20 13:55	08/24/20 11:00
92492178024	MW19I	Water	08/20/20 13:20	08/24/20 11:00
92492178025	MW20	Water	08/20/20 16:30	08/24/20 11:00
92492178026	MW21	Water	08/22/20 16:00	08/24/20 11:00
92492178027	MW22	Water	08/22/20 09:05	08/24/20 11:00
92492178028	MW22I	Water	08/22/20 09:45	08/24/20 11:00
92492178029	MW23	Water	08/20/20 14:35	08/24/20 11:00
92492178030	MW23I	Water	08/20/20 15:15	08/24/20 11:00
92492178031	MW24	Water	08/22/20 17:05	08/24/20 11:00
92492178032	MW25	Water	08/22/20 13:10	08/24/20 11:00
92492178033	MW26	Water	08/20/20 19:10	08/24/20 11:00
92492178034	MW26I	Water	08/20/20 18:35	08/24/20 11:00
92492178035	MW27	Water	08/20/20 09:05	08/24/20 11:00
92492178036	MW27I	Water	08/20/20 08:35	08/24/20 11:00
92492178037	MW28	Water	08/20/20 12:10	08/24/20 11:00

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492178038	**RW01**	Water	08/22/20 17:40	08/24/20 11:00
92492178039	**RW03**	Water	08/22/20 15:20	08/24/20 11:00
92492178040	**MW0X**	Water	08/22/20 13:45	08/24/20 11:00
92492178041	**MW0XR**	Water	08/22/20 12:30	08/24/20 11:00
92492178042	**DUP A**	Water	08/22/20 11:50	08/24/20 11:00
92492178043	**DUP B**	Water	08/22/20 11:05	08/24/20 11:00
92492178044	**DUP C**	Water	08/22/20 13:50	08/24/20 11:00
92492178045	**FB1**	Water	08/19/20 14:55	08/24/20 11:00
92492178046	**FB2**	Water	08/20/20 13:45	08/24/20 11:00
92492178047	**FB3**	Water	08/22/20 12:40	08/24/20 11:00
92492178048	**TRIP BLANK**	Water	08/22/20 00:00	08/24/20 11:00
92492178049	**TRIP BLANK 2**	Water	08/22/20 00:00	08/24/20 11:00
92492178050	**EB1**	Water	08/19/20 13:15	08/24/20 11:00
92492178051	**EB2**	Water	08/20/20 17:00	08/24/20 11:00
92492178052	**EB3**	Water	08/22/20 10:05	08/24/20 11:00

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92492178001	MW01	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178002	MW02	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	CL	18	PASI-C
92492178003	MW03	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178004	MW04	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178005	MW04I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178006	MW05	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178007	MW06	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178008	MW07	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178009	MW08	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178010	MW09	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178011	MW10	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178012	MW11	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178013	MW12	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178014	MW12I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178015	MW14	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178016	MW14I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178017	MW15	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178018	MW15I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178019	MW16	EPA 8011	JMS1	2	PASI-C

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260D	BSH	18	PASI-C
92492178020	MW16I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178021	MW17	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178022	MW17I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178023	MW19	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178024	MW19I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178025	MW20	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178026	MW21	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178027	MW22	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178028	MW22I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178029	MW23	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178030	MW23I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178031	MW24	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178032	MW25	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178033	MW26	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178034	MW26I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178035	MW27	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178036	MW27I	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178037	MW28	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C

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SAMPLE ANALYTE COUNT

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92492178038	**RW01**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178039	**RW03**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178040	**MW0X**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	SAS	18	PASI-C
92492178041	**MW0XR**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178042	**DUP A**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178043	**DUP B**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178044	**DUP C**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	PM1	18	PASI-C
92492178045	**FB1**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178046	**FB2**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178047	**FB3**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178048	**TRIP BLANK**	EPA 8260D	BSH	18	PASI-C
92492178049	**TRIP BLANK 2**	EPA 8260D	BSH	18	PASI-C
92492178050	**EB1**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178051	**EB2**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C
92492178052	**EB3**	EPA 8011	JMS1	2	PASI-C
		EPA 8260D	BSH	18	PASI-C

PASI-C = Pace Analytical Services - Charlotte

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SUMMARY OF DETECTION

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492178001	**MW01**					
EPA 8260D	Benzene	14000	ug/L	2000	08/27/20 08:33	
EPA 8260D	Ethylbenzene	3050	ug/L	2000	08/27/20 08:33	
EPA 8260D	Toluene	43400	ug/L	2000	08/27/20 08:33	
EPA 8260D	Xylene (Total)	16400	ug/L	2000	08/27/20 08:33	
92492178002	**MW02**					
EPA 8260D	Benzene	209	ug/L	10.0	08/31/20 09:45	
EPA 8260D	Toluene	4.3J	ug/L	10.0	08/31/20 09:45	
EPA 8260D	Xylene (Total)	120	ug/L	10.0	08/31/20 09:45	
92492178004	**MW04**					
EPA 8260D	Benzene	13.7	ug/L	5.0	08/25/20 18:41	
EPA 8260D	Diisopropyl ether	5.7	ug/L	5.0	08/25/20 18:41	
92492178013	**MW12**					
EPA 8260D	tert-Amyl Alcohol	6780	ug/L	5000	08/26/20 01:31	
EPA 8260D	Benzene	3440	ug/L	250	08/26/20 01:31	
EPA 8260D	Ethylbenzene	1270	ug/L	250	08/26/20 01:31	
EPA 8260D	Naphthalene	110J	ug/L	250	08/26/20 01:31	
EPA 8260D	Toluene	9080	ug/L	250	08/26/20 01:31	
EPA 8260D	Xylene (Total)	5860	ug/L	250	08/26/20 01:31	
92492178014	**MW12I**					
EPA 8260D	Benzene	1820	ug/L	250	08/26/20 01:49	
EPA 8260D	Ethylbenzene	871	ug/L	250	08/26/20 01:49	
EPA 8260D	Naphthalene	109J	ug/L	250	08/26/20 01:49	
EPA 8260D	Toluene	5530	ug/L	250	08/26/20 01:49	
EPA 8260D	Xylene (Total)	3910	ug/L	250	08/26/20 01:49	
92492178015	**MW14**					
EPA 8260D	tert-Amyl Alcohol	1870	ug/L	200	08/27/20 00:09	
EPA 8260D	Benzene	278	ug/L	10.0	08/27/20 00:09	
EPA 8260D	Ethylbenzene	31.4	ug/L	10.0	08/27/20 00:09	
EPA 8260D	Toluene	49.5	ug/L	10.0	08/27/20 00:09	
EPA 8260D	Xylene (Total)	181	ug/L	10.0	08/27/20 00:09	
92492178025	**MW20**					
EPA 8260D	tert-Amyl Alcohol	10900	ug/L	1000	08/27/20 04:56	
EPA 8260D	Benzene	1140	ug/L	50.0	08/27/20 04:56	
EPA 8260D	Diisopropyl ether	221	ug/L	50.0	08/27/20 04:56	
EPA 8260D	Ethylbenzene	232	ug/L	50.0	08/27/20 04:56	
EPA 8260D	Methyl-tert-butyl ether	40.8J	ug/L	50.0	08/27/20 04:56	
EPA 8260D	Naphthalene	22.4J	ug/L	50.0	08/27/20 04:56	
EPA 8260D	Toluene	234	ug/L	50.0	08/27/20 04:56	
EPA 8260D	Xylene (Total)	153	ug/L	50.0	08/27/20 04:56	
92492178026	**MW21**					
EPA 8260D	tert-Amyl Alcohol	11500	ug/L	5000	08/26/20 02:42	
EPA 8260D	Benzene	3860	ug/L	250	08/26/20 02:42	
EPA 8260D	Diisopropyl ether	208J	ug/L	250	08/26/20 02:42	

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SUMMARY OF DETECTION

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492178026	**MW21**					
EPA 8260D	Ethylbenzene	2150	ug/L	250	08/26/20 02:42	
EPA 8260D	Methyl-tert-butyl ether	817	ug/L	250	08/26/20 02:42	
EPA 8260D	Naphthalene	690	ug/L	250	08/26/20 02:42	
EPA 8260D	Toluene	5310	ug/L	250	08/26/20 02:42	
EPA 8260D	Xylene (Total)	9260	ug/L	250	08/26/20 02:42	
92492178027	**MW22**					
EPA 8260D	Benzene	4.6J	ug/L	5.0	08/26/20 23:15	
92492178030	**MW23I**					
EPA 8260D	tert-Amyl Alcohol	9640	ug/L	2500	08/27/20 06:08	
EPA 8260D	Benzene	2670	ug/L	125	08/27/20 06:08	
EPA 8260D	Diisopropyl ether	372	ug/L	125	08/27/20 06:08	
EPA 8260D	Methyl-tert-butyl ether	273	ug/L	125	08/27/20 06:08	
EPA 8260D	Toluene	52.9J	ug/L	125	08/27/20 06:08	
92492178031	**MW24**					
EPA 8011	1,2-Dibromoethane (EDB)	3.4	ug/L	0.10	08/28/20 15:15	
EPA 8260D	tert-Amyl Alcohol	46000	ug/L	40000	08/27/20 17:58	
EPA 8260D	Benzene	26300	ug/L	2000	08/27/20 17:58	
EPA 8260D	Diisopropyl ether	2160	ug/L	2000	08/27/20 17:58	
EPA 8260D	Ethanol	94300	ug/L	80000	08/27/20 17:58	
EPA 8260D	Ethylbenzene	3910	ug/L	2000	08/27/20 17:58	
EPA 8260D	Methyl-tert-butyl ether	20600	ug/L	2000	08/27/20 17:58	
EPA 8260D	Toluene	50700	ug/L	2000	08/27/20 17:58	
EPA 8260D	Xylene (Total)	20000	ug/L	2000	08/27/20 17:58	
92492178032	**MW25**					
EPA 8260D	tert-Amyl Alcohol	608	ug/L	500	08/27/20 04:38	
EPA 8260D	Benzene	703	ug/L	25.0	08/27/20 04:38	
EPA 8260D	Ethylbenzene	38.4	ug/L	25.0	08/27/20 04:38	
EPA 8260D	Methyl-tert-butyl ether	79.1	ug/L	25.0	08/27/20 04:38	
EPA 8260D	Toluene	163	ug/L	25.0	08/27/20 04:38	
EPA 8260D	Xylene (Total)	327	ug/L	25.0	08/27/20 04:38	
92492178033	**MW26**					
EPA 8260D	Benzene	15.4	ug/L	5.0	08/26/20 20:14	
92492178038	**RW01**					
EPA 8011	1,2-Dibromoethane (EDB)	2.9	ug/L	0.099	08/30/20 13:22	
EPA 8260D	Benzene	21500	ug/L	5000	08/27/20 18:52	
EPA 8260D	Ethylbenzene	2320J	ug/L	5000	08/27/20 18:52	
EPA 8260D	Methyl-tert-butyl ether	105000	ug/L	5000	08/27/20 18:52	
EPA 8260D	Toluene	35600	ug/L	5000	08/27/20 18:52	
92492178039	**RW03**					
EPA 8260D	tert-Amyl Alcohol	259	ug/L	100	08/26/20 00:38	
EPA 8260D	Benzene	84.7	ug/L	5.0	08/26/20 00:38	
EPA 8260D	Diisopropyl ether	4.1J	ug/L	5.0	08/26/20 00:38	
EPA 8260D	Ethylbenzene	38.4	ug/L	5.0	08/26/20 00:38	

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SUMMARY OF DETECTION

Project: West Side Quick Stop
Pace Project No.: 92492178

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492178039	**RW03**					
EPA 8260D	Methyl-tert-butyl ether	6.5	ug/L	5.0	08/26/20 00:38	
EPA 8260D	Naphthalene	3.0J	ug/L	5.0	08/26/20 00:38	
EPA 8260D	Toluene	35.3	ug/L	5.0	08/26/20 00:38	
EPA 8260D	Xylene (Total)	188	ug/L	5.0	08/26/20 00:38	
92492178040	**MW0X**					
EPA 8260D	tert-Amyl Alcohol	4910J	ug/L	5000	08/26/20 03:35	
EPA 8260D	Benzene	2880	ug/L	250	08/26/20 03:35	
EPA 8260D	Ethylbenzene	571	ug/L	250	08/26/20 03:35	
EPA 8260D	Methyl-tert-butyl ether	2580	ug/L	250	08/26/20 03:35	
EPA 8260D	Naphthalene	134J	ug/L	250	08/26/20 03:35	
EPA 8260D	Toluene	7500	ug/L	250	08/26/20 03:35	
EPA 8260D	Xylene (Total)	4130	ug/L	250	08/26/20 03:35	
92492178041	**MW0XR**					
EPA 8260D	tert-Amyl Alcohol	290	ug/L	100	08/26/20 23:33	
EPA 8260D	Benzene	45.6	ug/L	5.0	08/26/20 23:33	
EPA 8260D	Methyl-tert-butyl ether	28.9	ug/L	5.0	08/26/20 23:33	
EPA 8260D	Toluene	5.7	ug/L	5.0	08/26/20 23:33	
EPA 8260D	Xylene (Total)	50.8	ug/L	5.0	08/26/20 23:33	
92492178042	**DUP A**					
EPA 8260D	tert-Amyl Alcohol	132J	ug/L	200	08/27/20 00:27	
EPA 8260D	Benzene	233	ug/L	10.0	08/27/20 00:27	
EPA 8260D	Ethylbenzene	5.8J	ug/L	10.0	08/27/20 00:27	
EPA 8260D	Toluene	10.3	ug/L	10.0	08/27/20 00:27	
EPA 8260D	Xylene (Total)	137	ug/L	10.0	08/27/20 00:27	
92492178043	**DUP B**					
EPA 8260D	tert-Amyl Alcohol	7980	ug/L	5000	08/25/20 22:41	
EPA 8260D	Benzene	3730	ug/L	250	08/25/20 22:41	
EPA 8260D	Ethylbenzene	1200	ug/L	250	08/25/20 22:41	
EPA 8260D	Naphthalene	105J	ug/L	250	08/25/20 22:41	
EPA 8260D	Toluene	8780	ug/L	250	08/25/20 22:41	
EPA 8260D	Xylene (Total)	5560	ug/L	250	08/25/20 22:41	
92492178044	**DUP C**					
EPA 8260D	tert-Amyl Alcohol	5100	ug/L	5000	08/25/20 22:23	
EPA 8260D	Benzene	3220	ug/L	250	08/25/20 22:23	
EPA 8260D	Diisopropyl ether	223J	ug/L	250	08/25/20 22:23	
EPA 8260D	Ethylbenzene	550	ug/L	250	08/25/20 22:23	
EPA 8260D	Methyl-tert-butyl ether	3270	ug/L	250	08/25/20 22:23	
EPA 8260D	Naphthalene	109J	ug/L	250	08/25/20 22:23	
EPA 8260D	Toluene	7440	ug/L	250	08/25/20 22:23	
EPA 8260D	Xylene (Total)	4030	ug/L	250	08/25/20 22:23	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW01 **Lab ID: 92492178001** Collected: 08/22/20 14:30 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 00:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	80	%	60-140		1	08/27/20 10:02	08/28/20 00:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	40000	26200	400		08/27/20 08:33	75-85-4	
tert-Amylmethyl ether	ND	ug/L	4000	1220	400		08/27/20 08:33	994-05-8	
Benzene	**14000**	ug/L	2000	696	400		08/27/20 08:33	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	40000	21600	400		08/27/20 08:33	624-95-3	
tert-Butyl Alcohol	ND	ug/L	40000	36400	400		08/27/20 08:33	75-65-0	
tert-Butyl Formate	ND	ug/L	20000	9640	400		08/27/20 08:33	762-75-4	
1,2-Dichloroethane	ND	ug/L	2000	824	400		08/27/20 08:33	107-06-2	
Diisopropyl ether	ND	ug/L	2000	1400	400		08/27/20 08:33	108-20-3	
Ethanol	ND	ug/L	80000	57600	400		08/27/20 08:33	64-17-5	
Ethylbenzene	**3050**	ug/L	2000	736	400		08/27/20 08:33	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	4000	3380	400		08/27/20 08:33	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	2000	1240	400		08/27/20 08:33	1634-04-4	
Naphthalene	ND	ug/L	2000	836	400		08/27/20 08:33	91-20-3	
Toluene	**43400**	ug/L	2000	804	400		08/27/20 08:33	108-88-3	
Xylene (Total)	**16400**	ug/L	2000	2000	400		08/27/20 08:33	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		400		08/27/20 08:33	460-00-4	
1,2-Dichloroethane-d4 (S)	111	%	70-130		400		08/27/20 08:33	17060-07-0	
Toluene-d8 (S)	101	%	70-130		400		08/27/20 08:33	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW02 **Lab ID: 92492178002** Collected: 08/22/20 11:45 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 00:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	08/27/20 10:02	08/28/20 00:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	200	131	2		08/31/20 09:45	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		08/31/20 09:45	994-05-8	
Benzene	**209**	ug/L	10.0	3.5	2		08/31/20 09:45	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		08/31/20 09:45	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		08/31/20 09:45	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		08/31/20 09:45	762-75-4	v1
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		08/31/20 09:45	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		08/31/20 09:45	108-20-3	
Ethanol	ND	ug/L	400	288	2		08/31/20 09:45	64-17-5	
Ethylbenzene	ND	ug/L	10.0	3.7	2		08/31/20 09:45	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		08/31/20 09:45	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		08/31/20 09:45	1634-04-4	
Naphthalene	ND	ug/L	10.0	4.2	2		08/31/20 09:45	91-20-3	
Toluene	**4.3J**	ug/L	10.0	4.0	2		08/31/20 09:45	108-88-3	
Xylene (Total)	**120**	ug/L	10.0	10.0	2		08/31/20 09:45	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	102	%	70-130		2		08/31/20 09:45	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	70-130		2		08/31/20 09:45	17060-07-0	
Toluene-d8 (S)	101	%	70-130		2		08/31/20 09:45	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW03 **Lab ID: 92492178003** Collected: 08/20/20 15:50 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	08/27/20 10:02	08/28/20 00:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	08/27/20 10:02	08/28/20 00:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 18:23	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 18:23	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 18:23	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 18:23	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 18:23	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 18:23	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 18:23	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 18:23	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 18:23	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 18:23	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 18:23	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 18:23	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 18:23	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 18:23	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 18:23	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 18:23	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/25/20 18:23	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 18:23	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW04 **Lab ID: 92492178004** Collected: 08/20/20 17:15 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 00:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	08/27/20 10:02	08/28/20 00:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 18:41	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 18:41	994-05-8	
Benzene	**13.7**	ug/L	5.0	1.7	1		08/25/20 18:41	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 18:41	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 18:41	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 18:41	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 18:41	107-06-2	
Diisopropyl ether	**5.7**	ug/L	5.0	3.5	1		08/25/20 18:41	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 18:41	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 18:41	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 18:41	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 18:41	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 18:41	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 18:41	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 18:41	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/25/20 18:41	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/25/20 18:41	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 18:41	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW04I **Lab ID: 92492178005** Collected: 08/20/20 17:50 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 00:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	08/27/20 10:02	08/28/20 00:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 22:00	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 22:00	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 22:00	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 22:00	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 22:00	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 22:00	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 22:00	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 22:00	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 22:00	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 22:00	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 22:00	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 22:00	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 22:00	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 22:00	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 22:00	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 22:00	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/25/20 22:00	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 22:00	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW05 **Lab ID: 92492178006** Collected: 08/19/20 11:45 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 01:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	08/27/20 10:02	08/28/20 01:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 22:18	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 22:18	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 22:18	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 22:18	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 22:18	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 22:18	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 22:18	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 22:18	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 22:18	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 22:18	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 22:18	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 22:18	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 22:18	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 22:18	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 22:18	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 22:18	460-00-4	
1,2-Dichloroethane-d4 (S)	88	%	70-130		1		08/25/20 22:18	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		08/25/20 22:18	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW06 **Lab ID: 92492178007** Collected: 08/19/20 15:05 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 01:13	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	08/27/20 10:02	08/28/20 01:13	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 22:36	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 22:36	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 22:36	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 22:36	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 22:36	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 22:36	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 22:36	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 22:36	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 22:36	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 22:36	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 22:36	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 22:36	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 22:36	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 22:36	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 22:36	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 22:36	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		08/25/20 22:36	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 22:36	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW07 **Lab ID: 92492178008** Collected: 08/20/20 12:40 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	08/27/20 10:02	08/28/20 01:25	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	08/27/20 10:02	08/28/20 01:25	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 22:55	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 22:55	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 22:55	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 22:55	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 22:55	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 22:55	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 22:55	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 22:55	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 22:55	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 22:55	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 22:55	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 22:55	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 22:55	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 22:55	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 22:55	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 22:55	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		08/25/20 22:55	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 22:55	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW08 **Lab ID: 92492178009** Collected: 08/20/20 11:30 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 01:37	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	80	%	60-140		1	08/27/20 10:02	08/28/20 01:37	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 23:13	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 23:13	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 23:13	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 23:13	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 23:13	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 23:13	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 23:13	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 23:13	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 23:13	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 23:13	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 23:13	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 23:13	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 23:13	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 23:13	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 23:13	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 23:13	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/25/20 23:13	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 23:13	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW09 **Lab ID: 92492178010** Collected: 08/20/20 10:55 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 01:49	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	08/27/20 10:02	08/28/20 01:49	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 23:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 23:31	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 23:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 23:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 23:31	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 23:31	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 23:31	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 23:31	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 23:31	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 23:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 23:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 23:31	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 23:31	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 23:31	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 23:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/25/20 23:31	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/25/20 23:31	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/25/20 23:31	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW10 **Lab ID: 92492178011** Collected: 08/20/20 10:15 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 02:01	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	08/27/20 10:02	08/28/20 02:01	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/25/20 23:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/25/20 23:49	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/25/20 23:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/25/20 23:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/25/20 23:49	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/25/20 23:49	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/25/20 23:49	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/25/20 23:49	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/25/20 23:49	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/25/20 23:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/25/20 23:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/25/20 23:49	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/25/20 23:49	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/25/20 23:49	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/25/20 23:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/25/20 23:49	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		08/25/20 23:49	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/25/20 23:49	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW11 **Lab ID: 92492178012** Collected: 08/20/20 09:40 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 07:40	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	89	%	60-140		1	08/27/20 10:02	08/28/20 07:40	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 00:07	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 00:07	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 00:07	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 00:07	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 00:07	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 00:07	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 00:07	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 00:07	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 00:07	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 00:07	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 00:07	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 00:07	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 00:07	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 00:07	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 00:07	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/26/20 00:07	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/26/20 00:07	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/26/20 00:07	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW12 **Lab ID: 92492178013** Collected: 08/22/20 11:00 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 07:52	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	112	%	60-140		1	08/27/20 10:02	08/28/20 07:52	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**6780**	ug/L	5000	3280	50		08/26/20 01:31	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		08/26/20 01:31	994-05-8	
Benzene	**3440**	ug/L	250	87.0	50		08/26/20 01:31	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		08/26/20 01:31	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		08/26/20 01:31	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		08/26/20 01:31	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	250	103	50		08/26/20 01:31	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		08/26/20 01:31	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		08/26/20 01:31	64-17-5	v2
Ethylbenzene	**1270**	ug/L	250	92.0	50		08/26/20 01:31	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		08/26/20 01:31	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		08/26/20 01:31	1634-04-4	
Naphthalene	**110J**	ug/L	250	104	50		08/26/20 01:31	91-20-3	
Toluene	**9080**	ug/L	250	100	50		08/26/20 01:31	108-88-3	
Xylene (Total)	**5860**	ug/L	250	250	50		08/26/20 01:31	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		50		08/26/20 01:31	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		50		08/26/20 01:31	17060-07-0	
Toluene-d8 (S)	98	%	70-130		50		08/26/20 01:31	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW12I **Lab ID: 92492178014** Collected: 08/22/20 10:25 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 08:51	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	119	%	60-140		1	08/27/20 10:02	08/28/20 08:51	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	5000	3280	50		08/26/20 01:49	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		08/26/20 01:49	994-05-8	
Benzene	**1820**	ug/L	250	87.0	50		08/26/20 01:49	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		08/26/20 01:49	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		08/26/20 01:49	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		08/26/20 01:49	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	250	103	50		08/26/20 01:49	107-06-2	
Diisopropyl ether	ND	ug/L	250	174	50		08/26/20 01:49	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		08/26/20 01:49	64-17-5	v2
Ethylbenzene	**871**	ug/L	250	92.0	50		08/26/20 01:49	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		08/26/20 01:49	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	250	155	50		08/26/20 01:49	1634-04-4	
Naphthalene	**109J**	ug/L	250	104	50		08/26/20 01:49	91-20-3	
Toluene	**5530**	ug/L	250	100	50		08/26/20 01:49	108-88-3	
Xylene (Total)	**3910**	ug/L	250	250	50		08/26/20 01:49	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		50		08/26/20 01:49	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		50		08/26/20 01:49	17060-07-0	
Toluene-d8 (S)	98	%	70-130		50		08/26/20 01:49	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW14 **Lab ID: 92492178015** Collected: 08/19/20 16:15 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 09:15	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	126	%	60-140		1	08/27/20 10:02	08/28/20 09:15	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**1870**	ug/L	200	131	2		08/27/20 00:09	75-85-4	
tert-Amylmethyl ether	ND	ug/L	20.0	6.1	2		08/27/20 00:09	994-05-8	
Benzene	**278**	ug/L	10.0	3.5	2		08/27/20 00:09	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	200	108	2		08/27/20 00:09	624-95-3	
tert-Butyl Alcohol	ND	ug/L	200	182	2		08/27/20 00:09	75-65-0	
tert-Butyl Formate	ND	ug/L	100	48.2	2		08/27/20 00:09	762-75-4	
1,2-Dichloroethane	ND	ug/L	10.0	4.1	2		08/27/20 00:09	107-06-2	
Diisopropyl ether	ND	ug/L	10.0	7.0	2		08/27/20 00:09	108-20-3	
Ethanol	ND	ug/L	400	288	2		08/27/20 00:09	64-17-5	
Ethylbenzene	**31.4**	ug/L	10.0	3.7	2		08/27/20 00:09	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	20.0	16.9	2		08/27/20 00:09	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	10.0	6.2	2		08/27/20 00:09	1634-04-4	
Naphthalene	ND	ug/L	10.0	4.2	2		08/27/20 00:09	91-20-3	
Toluene	**49.5**	ug/L	10.0	4.0	2		08/27/20 00:09	108-88-3	
Xylene (Total)	**181**	ug/L	10.0	10.0	2		08/27/20 00:09	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	104	%	70-130		2		08/27/20 00:09	460-00-4	
1,2-Dichloroethane-d4 (S)	92	%	70-130		2		08/27/20 00:09	17060-07-0	
Toluene-d8 (S)	90	%	70-130		2		08/27/20 00:09	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW14I **Lab ID: 92492178016** Collected: 08/19/20 15:45 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 09:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	08/27/20 10:02	08/28/20 09:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 00:25	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 00:25	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 00:25	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 00:25	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 00:25	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 00:25	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 00:25	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 00:25	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 00:25	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 00:25	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 00:25	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 00:25	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 00:25	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 00:25	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 00:25	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		08/26/20 00:25	460-00-4	
1,2-Dichloroethane-d4 (S)	89	%	70-130		1		08/26/20 00:25	17060-07-0	
Toluene-d8 (S)	98	%	70-130		1		08/26/20 00:25	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW15 **Lab ID: 92492178017** Collected: 08/19/20 14:25 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	08/27/20 10:02	08/28/20 10:02	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	86	%	60-140		1	08/27/20 10:02	08/28/20 10:02	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 00:43	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 00:43	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 00:43	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 00:43	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 00:43	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 00:43	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 00:43	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 00:43	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 00:43	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 00:43	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 00:43	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 00:43	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 00:43	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 00:43	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 00:43	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/26/20 00:43	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		08/26/20 00:43	17060-07-0	
Toluene-d8 (S)	99	%	70-130		1		08/26/20 00:43	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW15I **Lab ID: 92492178018** Collected: 08/19/20 13:50 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 10:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	83	%	60-140		1	08/27/20 10:02	08/28/20 10:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 01:01	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 01:01	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 01:01	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 01:01	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 01:01	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 01:01	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 01:01	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 01:01	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 01:01	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 01:01	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 01:01	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 01:01	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 01:01	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 01:01	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 01:01	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/26/20 01:01	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		08/26/20 01:01	17060-07-0	
Toluene-d8 (S)	100	%	70-130		1		08/26/20 01:01	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW16 **Lab ID: 92492178019** Collected: 08/19/20 13:10 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 10:27	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	08/27/20 10:02	08/28/20 10:27	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 21:26	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 21:26	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 21:26	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 21:26	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 21:26	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 21:26	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 21:26	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 21:26	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 21:26	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 21:26	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 21:26	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 21:26	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 21:26	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 21:26	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 21:26	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		08/26/20 21:26	460-00-4	
1,2-Dichloroethane-d4 (S)	86	%	70-130		1		08/26/20 21:26	17060-07-0	
Toluene-d8 (S)	80	%	70-130		1		08/26/20 21:26	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW16I **Lab ID: 92492178020** Collected: 08/19/20 12:35 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	08/27/20 10:02	08/28/20 10:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	81	%	60-140		1	08/27/20 10:02	08/28/20 10:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 21:44	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 21:44	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 21:44	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 21:44	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 21:44	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 21:44	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 21:44	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 21:44	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 21:44	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 21:44	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 21:44	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 21:44	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 21:44	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 21:44	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 21:44	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/26/20 21:44	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		08/26/20 21:44	17060-07-0	
Toluene-d8 (S)	84	%	70-130		1		08/26/20 21:44	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW17 **Lab ID: 92492178021** Collected: 08/19/20 17:40 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 10:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	08/27/20 10:02	08/28/20 10:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 22:02	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 22:02	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 22:02	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 22:02	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 22:02	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 22:02	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 22:02	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 22:02	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 22:02	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 22:02	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 22:02	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 22:02	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 22:02	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 22:02	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 22:02	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		08/26/20 22:02	460-00-4	
1,2-Dichloroethane-d4 (S)	83	%	70-130		1		08/26/20 22:02	17060-07-0	
Toluene-d8 (S)	103	%	70-130		1		08/26/20 22:02	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW17I **Lab ID: 92492178022** Collected: 08/19/20 17:05 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.012	1	08/27/20 10:02	08/28/20 11:03	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	84	%	60-140		1	08/27/20 10:02	08/28/20 11:03	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 22:21	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 22:21	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 22:21	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 22:21	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 22:21	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 22:21	762-75-4	P5
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 22:21	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 22:21	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 22:21	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 22:21	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 22:21	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 22:21	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 22:21	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 22:21	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 22:21	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		08/26/20 22:21	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		08/26/20 22:21	17060-07-0	
Toluene-d8 (S)	101	%	70-130		1		08/26/20 22:21	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW19 **Lab ID: 92492178023** Collected: 08/20/20 13:55 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 11:14	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	82	%	60-140		1	08/27/20 10:02	08/28/20 11:14	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 22:39	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 22:39	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 22:39	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 22:39	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 22:39	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 22:39	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 22:39	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 22:39	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 22:39	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 22:39	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 22:39	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 22:39	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 22:39	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 22:39	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 22:39	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		08/26/20 22:39	460-00-4	
1,2-Dichloroethane-d4 (S)	90	%	70-130		1		08/26/20 22:39	17060-07-0	
Toluene-d8 (S)	92	%	70-130		1		08/26/20 22:39	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW19I **Lab ID: 92492178024** Collected: 08/20/20 13:20 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 11:26	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	91	%	60-140		1	08/27/20 10:02	08/28/20 11:26	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	ND	ug/L	100	65.6	1		08/26/20 22:57	75-85-4	
tert-Amylmethyl ether	ND	ug/L	10.0	3.0	1		08/26/20 22:57	994-05-8	
Benzene	ND	ug/L	5.0	1.7	1		08/26/20 22:57	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	100	53.9	1		08/26/20 22:57	624-95-3	
tert-Butyl Alcohol	ND	ug/L	100	91.0	1		08/26/20 22:57	75-65-0	
tert-Butyl Formate	ND	ug/L	50.0	24.1	1		08/26/20 22:57	762-75-4	
1,2-Dichloroethane	ND	ug/L	5.0	2.1	1		08/26/20 22:57	107-06-2	
Diisopropyl ether	ND	ug/L	5.0	3.5	1		08/26/20 22:57	108-20-3	
Ethanol	ND	ug/L	200	144	1		08/26/20 22:57	64-17-5	
Ethylbenzene	ND	ug/L	5.0	1.8	1		08/26/20 22:57	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	10.0	8.5	1		08/26/20 22:57	637-92-3	
Methyl-tert-butyl ether	ND	ug/L	5.0	3.1	1		08/26/20 22:57	1634-04-4	
Naphthalene	ND	ug/L	5.0	2.1	1		08/26/20 22:57	91-20-3	
Toluene	ND	ug/L	5.0	2.0	1		08/26/20 22:57	108-88-3	
Xylene (Total)	ND	ug/L	5.0	5.0	1		08/26/20 22:57	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		08/26/20 22:57	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		1		08/26/20 22:57	17060-07-0	
Toluene-d8 (S)	111	%	70-130		1		08/26/20 22:57	2037-26-5	

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ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW20 **Lab ID: 92492178025** Collected: 08/20/20 16:30 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.019	0.011	1	08/27/20 10:02	08/28/20 11:38	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	85	%	60-140		1	08/27/20 10:02	08/28/20 11:38	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**10900**	ug/L	1000	656	10		08/27/20 04:56	75-85-4	
tert-Amylmethyl ether	ND	ug/L	100	30.4	10		08/27/20 04:56	994-05-8	
Benzene	**1140**	ug/L	50.0	17.4	10		08/27/20 04:56	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	1000	539	10		08/27/20 04:56	624-95-3	
tert-Butyl Alcohol	ND	ug/L	1000	910	10		08/27/20 04:56	75-65-0	
tert-Butyl Formate	ND	ug/L	500	241	10		08/27/20 04:56	762-75-4	
1,2-Dichloroethane	ND	ug/L	50.0	20.6	10		08/27/20 04:56	107-06-2	
Diisopropyl ether	**221**	ug/L	50.0	34.9	10		08/27/20 04:56	108-20-3	
Ethanol	ND	ug/L	2000	1440	10		08/27/20 04:56	64-17-5	
Ethylbenzene	**232**	ug/L	50.0	18.4	10		08/27/20 04:56	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	100	84.6	10		08/27/20 04:56	637-92-3	
Methyl-tert-butyl ether	**40.8J**	ug/L	50.0	31.0	10		08/27/20 04:56	1634-04-4	
Naphthalene	**22.4J**	ug/L	50.0	20.9	10		08/27/20 04:56	91-20-3	
Toluene	**234**	ug/L	50.0	20.1	10		08/27/20 04:56	108-88-3	
Xylene (Total)	**153**	ug/L	50.0	50.0	10		08/27/20 04:56	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		08/27/20 04:56	460-00-4	
1,2-Dichloroethane-d4 (S)	104	%	70-130		10		08/27/20 04:56	17060-07-0	
Toluene-d8 (S)	99	%	70-130		10		08/27/20 04:56	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: West Side Quick Stop
Pace Project No.: 92492178

Sample: MW21 **Lab ID: 92492178026** Collected: 08/22/20 16:00 Received: 08/24/20 11:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8011 GCS EDB and DBCP	Analytical Method: EPA 8011 Preparation Method: EPA 8011 Pace Analytical Services - Charlotte								
1,2-Dibromoethane (EDB)	ND	ug/L	0.020	0.011	1	08/27/20 10:02	08/28/20 11:50	106-93-4	
Surrogates									
1-Chloro-2-bromopropane (S)	111	%	60-140		1	08/27/20 10:02	08/28/20 11:50	301-79-56	
8260 MSV	Analytical Method: EPA 8260D Pace Analytical Services - Charlotte								
tert-Amyl Alcohol	**11500**	ug/L	5000	3280	50		08/26/20 02:42	75-85-4	
tert-Amylmethyl ether	ND	ug/L	500	152	50		08/26/20 02:42	994-05-8	
Benzene	**3860**	ug/L	250	87.0	50		08/26/20 02:42	71-43-2	
3,3-Dimethyl-1-Butanol	ND	ug/L	5000	2700	50		08/26/20 02:42	624-95-3	
tert-Butyl Alcohol	ND	ug/L	5000	4550	50		08/26/20 02:42	75-65-0	
tert-Butyl Formate	ND	ug/L	2500	1200	50		08/26/20 02:42	762-75-4	v2
1,2-Dichloroethane	ND	ug/L	250	103	50		08/26/20 02:42	107-06-2	
Diisopropyl ether	**208J**	ug/L	250	174	50		08/26/20 02:42	108-20-3	
Ethanol	ND	ug/L	10000	7200	50		08/26/20 02:42	64-17-5	v2
Ethylbenzene	**2150**	ug/L	250	92.0	50		08/26/20 02:42	100-41-4	
Ethyl-tert-butyl ether	ND	ug/L	500	423	50		08/26/20 02:42	637-92-3	
Methyl-tert-butyl ether	**817**	ug/L	250	155	50		08/26/20 02:42	1634-04-4	
Naphthalene	**690**	ug/L	250	104	50		08/26/20 02:42	91-20-3	
Toluene	**5310**	ug/L	250	100	50		08/26/20 02:42	108-88-3	
Xylene (Total)	**9260**	ug/L	250	250	50		08/26/20 02:42	1330-20-7	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		50		08/26/20 02:42	460-00-4	
1,2-Dichloroethane-d4 (S)	91	%	70-130		50		08/26/20 02:42	17060-07-0	
Toluene-d8 (S)	97	%	70-130		50		08/26/20 02:42	2037-26-5	

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