



January 30, 2013

Mr. James Innes

Environmental Quality Analyst
Michigan Department of Environmental Quality
Remediation and Redevelopment Division
525 West Allegan Street - 4th Floor North
Lansing, MI 48909

RE: Response Activity Plan – Investigation Results
RACER Trust - GLTC Land (Die Storage Lot) Site
FILE: 15388/48632/Reports

Dear Mr. Innes:

O'Brien & Gere on behalf of Revitalizing Auto Communities Environmental Response Trust (RACER), is pleased to provide this Response Activity Plan – Investigation Results letter prepared to document the installation of a new monitoring well and collection of two additional delineation soil samples to complete the delineation of the impacts at the GLTC Land (Die Storage Lot) Site located in Flint, Michigan (Site). The additional monitoring well and soil samples were collected in accordance with procedures described in an email with the subject RACER Turst – 12981 – GLTC Land – Proposed Scope of Work dated July 30, 2012 (Scope of Work), as approved by the Michigan Department of Environmental Quality (MDEQ) in an email dated August 3, 2012 (Attachment A).

The discussion below summarizes the field procedures for the installation of the new monitoring well and for the soil and groundwater sampling activities conducted at the Site. Field activities were conducted between October 2, 2012 and November 7, 2012.

1 TEST PIT INSTALLATION

A test pit was installed adjacent to (about 10 ft west of) the proposed new monitoring well location on October 2, 2012 to identify the location of the 5-foot diameter storm sewer that traverses the site to allow the installation of the new monitoring well, OBG-MW-23, adjacent to the storm sewer and associated sanitary sewers that parallel the storm sewer without damaging the sewers. Due to the potential for slag, debris and other fill materials, ground penetrating radar (GPR) and use of a transponder in the storm sewer may not reliably locate the storm sewer; therefore, test pitting was selected to locate the storm sewer. Based on historical records and field observations, two sanitary sewers parallel the storm sewer to the south with about a 5 foot separation and at about 5 ft deeper. Therefore, installation of OBG-MW-23 adjacent to south side of the storm sewer would place the well between the storm sewer and the sanitary sewers.

A John Deere 710D backhoe was utilized to excavate to and expose the top of the storm sewer, which was identified at about 12 feet below grade (fbg). The excavation was extended to a depth of about 13 fbg to verify the position and orientation of the storm sewer. Attachment B contains the test pit (*i.e.*, boring) log for the test pit. The soil cuttings generated during the test pitting activities were stockpiled away from the excavation and then utilized to back fill the excavation. Soils were placed in lifts and compacted utilizing the bucket of the backhoe. The soils were heaped above the test pit location to allow for settlement.

2 MONITORING WELL INSTALLATION

Monitoring well OBG-MW-23 was installed approximately 100 ft northwest of OBG-MW-22 between the sanitary and storm sewers located along the utility corridor in this area of the Site. Figure 2 from the No Further Action 37000 Grand River Avenue, Suite 260, Farmington Hills, MI 48335 | p 248-477-5701 | f 248-477-5962 | www.obg.com

(NFA) Report submitted in 2011 has been revised to include the location of OBG-MW-23 and is attached. OBG-MW-23 was installed utilizing a Geoprobe® drilling rig capable of turning 4.25 inch inside diameter (ID) hollow stem augers (HSAs). Prior to setting the well, soil samples for visual classification of the soils were collected utilizing direct push drilling techniques (Geoprobe®) using 5-ft long, 1.5 in diameter Macro-Core® samplers, with soil samples collected continuously from grade to the bottom of the boring, which was extended to a depth of 25 fbg. Once the sampling depth was reached for the sample run, the sampler was removed from the borehole, detached from the drill rods, and the acetate sleeve was cut length-wise and opened to allow observation of the subsurface soil.

The soil samples were visually inspected and logged by an O'Brien & Gere geologist in accordance with the Unified Soil Classification System (USCS). The soil boring log for OBG-MW-23 is provided in Attachment B.

The initial Geoprobe® boring was over drilled utilizing 4.25-inch HSAs once the lithology at the well location was verified, and a screen depth was determined. The depth to water observed during drilling was approximately 15.7 fbg; however, OBG-MW-23 was installed at a depth of 23.5 fbg to also allow screening of a lower sand seam observed during drilling. OBG-MW-23 was screened from about 23.5 to 18.5 fbg utilizing a five foot long, 2 inch ID, #10 slot PVC well screen and sufficient riser pipe to reach about 2 ft above grade. A sand pack was installed around the well screen to a height of about 3.5 ft above the top of the well screen to allow the sand pack to extend into a sand seam above the well screen and then coarse granular bentonite was placed above the sand pack to grade to seal the well. A stick up well protector was installed within the bentonite to protect the well, which was locked. The well was developed by surging the well with a surge block and purging the well.

Following well development and a two week stabilization period, OBG-MW-23 was sampled for volatile organic compounds (VOCs), poly polycyclic aromatic hydrocarbons (PAHs) and lead, and OBG-MW-22 was sampled for lead on November 7, 2012. A trip blank for VOCs was also collected. Prior to collecting the groundwater samples from OBG-MW-22 and OBG-MW-23, a groundwater level was collected from the monitoring wells, and a complete round of groundwater levels were collected from the remaining wells on Site during the sampling event. Table 7 provides a table of the historic (2005) and recent groundwater elevation data. Figure 8 provides a groundwater contour map for November 7, 2012. The groundwater samples were collected using dedicated (new) tubing and a peristaltic pump utilizing a low-flow sampling techniques.

3 SOIL SAMPLING

Two soil samples were collected and analyzed for lead to delineate the extent of lead impacts associated with impacts identified above the residential direct contact criterion of 400 mg/kg at SB-113 located in north east portion of the Site and at SB-110SW located at the southeastern portion of the Site.

Soil boring SB-113MO (for move out) was installed northeast of SB-113 outside the fence to allow hand augering techniques to be utilized to collect the soil sample, and avoid having to core through the concrete cap within the fence (see the attached revised 2011 NFA Report Figure 2 – Soil Boring Locations). The soil sample was collected at a depth of 1.0 to 2.5 fbg to correspond to the 1.5 to 3.0 fbg sample depth at the original location of SB-113 (the sample depth in SB-113MO was slightly shallower because the ground surface just outside of the fence is about six inches lower than the ground surface at SB-113).

The second soil sample was collected from soil boring SB-110SW-S located approximately 26 ft south of the original SB-110SW soil boring location (Figure 2). The sample was collected from 3.0 to 3.5 fbg due to refusal at 3.5 ft because of large pieces of slag at that depth, but 3.0 to 3.5 fbg is still within the 3 to 5 fbg sample depth at the original SB-110SW location, which was just slightly higher topographically, and was collected from a similar slag material. The sample was collected from a moist, dark gray to reddish gray, coarse to fine sandy, coarse to fine gravelly slag. A third soil sample was collected from soil boring SB-110SW-SS located approximately 51 ft south of the original SB-110SW soil boring location adjacent to the southern fence of the Site. The sample was collected from 3.0 to 4.5 fbg and was held for analysis pending the results of the sample from SB-110SW-S.

4 FINDINGS AND ANALYTICAL RESULTS

No VOCs, PAHs, or lead were detected in the groundwater sample from OBG-MW-23, and lead was detected at a concentration of 0.055 mg/l (or 55 ug/l) in the groundwater sample from OBG-MW-22, which is similar to the concentration previously detected in this well when it was installed in 2005. Table 6 from the 2011 NFA Report has been revised to include the recent analytical results and is attached.

Lead was detected in the soil samples from soil borings SB-110SW-S and SB-113MO at concentrations of 4.32 mg/kg and 5.65 mg/kg, respectively. Table 5b from the 2011 NFA Report has been revised to include the recent analytical results and is attached. The laboratory report and chain-of-custody documents are included in Attachment C.

The groundwater contours for the recent water levels (Table 7 and Figure 8) confirm the general groundwater flow direction and gradient at the Site observed in 2005, and indicates that OBG-MW-23 is downgradient of OBG-MW-22 and the former retention basin. Therefore, OBG-MW-23 delineates the groundwater impacts at the Site and is within the Site limits as shown on Figure 5 (updated from the version submitted in the 2011 NFA Report).

Furthermore, the two additional delineation soil samples collected at SB-110SW-S and SB-113MO were below the residential direct contact criterion of 400 mg/kg for lead; thereby, completing the delineation of the lead impacts at the Site.

We request the concurrence of the MDEQ that delineation of impacts is completed at the Site and no additional investigation is necessary and all that remains to do are file a deed restriction and install the permanent marker. If you have questions or would like additional information, please contact Clifford S. Yantz at (248) 477-5701.

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Scott L. Cormier, PE
Vice President
PE No. 6201039613 (MI)

Very truly yours,

O'BRIEN & GERE ENGINEERS, INC.



Clifford S. Yantz
Technical Associate

Attachments:

Table 5b – Delineation Boring Soil Analytical Results
Table 6 – Groundwater Analytical Results
Table 7 – Groundwater Elevation Data

Figure 2 – Soil Boring Locations
Figure 5 – Site Features/Utility Map
Figure 8 – Groundwater Contour Map (November 7, 2012)

Attachment A – MDEQ Approval email dated August 3, 2012
Attachment B – Test Pit and Boring Logs
Attachment C – Laboratory Reports and Chain-of-Custody Documents

cc: David Favero – RACER Trust
Kevin Schneider – O'Brien & Gere

Tables

Table 5b
GLTC Land
Delineation Boring Soil Analytical Results

Boring ID/ Sample Depth		MDEQ Part 201 Statewide Default Background Levels	MDEQ Part 201 Generic Nonresidential Drinking Water Protection Cleanup Criteria	MDEQ Part 201 Generic GSI Protection Criteria	MDEQ Part 201 Generic Nonresidential Soil Direct Contact Cleanup Criteria	Maximum Concentration Detected	MW-7 3-5'	MW-7 8-10'	MW-7 13-15'	MW-7A 5'	MW-7A 10'	MW-7A 15'	MW-7A 18'	MW-7NE 5'	MW-7NE 10'	MW-7NE 15'	MW-7NW 5'	MW-7NW 10'	MW-7NW 10' (Dup)	MW-7NW 15'	MW-7SE 5'	MW-7SE 10'	MW-7SE 15'	MW-7SW 5'	
Sample Date	Units						1986	1986	1986	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007
Arsenic	mg/kg	5.8	4.6	4.6	37	18	18	12	15	1.36	1.14	2.47	2.62	7.3	1.37	4.24	0.83	1.13	1.19	2.8	0.7	0.81	3.34	0.85	
Lead - fine	mg/kg	21	700	2,800 (G, X)	900 (DD)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lead - coarse	mg/kg	21	700	2,800 (G, X)	900 (DD)	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lead - total	mg/kg	21	700	2,800 (G, X)	900 (DD)	ND	ND	ND	ND	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Boring ID/ Sample Depth		MDEQ Part 201 Statewide Default Background Levels	MDEQ Part 201 Generic Nonresidential Drinking Water Protection Cleanup Criteria	MDEQ Part 201 Generic GSI Protection Criteria	MDEQ Part 201 Generic Nonresidential Soil Direct Contact Cleanup Criteria	Maximum Concentration Detected	MW-7SW 10'	MW-7SW 15'	OBG- 219A 1-2'	OBG- 219NE 2'	OBG- 219NW 2'	OBG- 219SE 2'	OBG- 219SW 2'	S-26 7'	S-26 10'	S-26 15'	S-26NE 7'	S-26NW 7'	S-26NW 7' (Dup)	S-26SE 7'	S-26SW 7'	S-31 0.5-2'	S-31 10'		
Sample Date	Units						7/26/2007	7/26/2007	1/17/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	7/26/2007	1986	1986	1986	7/25/2007	7/25/2007	7/25/2007	7/25/2007
Arsenic	mg/kg	5.8	4.6	4.6	37	18	1	2.66	--	--	--	--	--	--	18	5.8	6.6	0.77	0.53	0.39	1.11	0.97	5.6	5.3	
Lead - fine	mg/kg	21	700	2,800 (G, X)	900 (DD)	483	--	--	483	35.7	109	29.1	27.7	47.8	--	--	--	--	--	--	--	--	--	--	
Lead - coarse	mg/kg	21	700	2,800 (G, X)	900 (DD)	262	--	--	262	12.5	34.2	21	15.1	10.8	--	--	--	--	--	--	--	--	--	--	
Lead - total	mg/kg	21	700	2,800 (G, X)	900 (DD)	95800	--	--	--	18.1	39.2	22.9	17.2	16.9	9.9	ND	8.2	--	--	--	--	--	95,800	17	
Boring ID/ Sample Depth		MDEQ Part 201 Statewide Default Background Levels	MDEQ Part 201 Generic Nonresidential Drinking Water Protection Cleanup Criteria	MDEQ Part 201 Generic GSI Protection Criteria	MDEQ Part 201 Generic Nonresidential Soil Direct Contact Cleanup Criteria	Maximum Concentration Detected	S-31 14.5'	S-31A 5'	S-31NE 2'	S-31NW 2'	S-31SE 2'	S-31SW 2'	S-32 10'	S-32 15'	S-32A 12'	S-32NE 10'	S-32NW 10'	S-32SE 10'	S-32SE 10' (Dup)	S-32SW 10'	SB-103 3.5-5'	SB-103 8.5-10'	SB-103A 12'	SB-103NE 10'	
Sample Date	Units						1986	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	1986	1986	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007
Arsenic	mg/kg	5.8	4.6	4.6	37	6.5	6.5	--	--	--	--	--	4.7	5.5	--	--	--	--	--	--	--	--	--	--	
Lead - fine	mg/kg	21	700	2,800 (G, X)	900 (DD)	25100	--	99.3	10,600	10,200	679	1,770	--	--	1,840	25,100	6,220	4,430	5,180	3,400	--	--	839	133	
Lead - coarse	mg/kg	21	700	2,800 (G, X)	900 (DD)	6530	--	10.7	4,570	6,530	512	297	--	--	184	4,700	5,820	4,930	3,330	3,510	--	--	10.3	6.1	
Lead - total	mg/kg	21	700	2,800 (G, X)	900 (DD)	12500	6	16.3	6,060	7,500	521	404	460	17	256	11,900	5,890	4,810	3,700	3,460	66	12,500	234	34	
Boring ID/ Sample Depth		MDEQ Part 201 Statewide Default Background Levels	MDEQ Part 201 Generic Nonresidential Drinking Water Protection Cleanup Criteria	MDEQ Part 201 Generic GSI Protection Criteria	MDEQ Part 201 Generic Nonresidential Soil Direct Contact Cleanup Criteria	Maximum Concentration Detected	SB- 103NW 10'	SB-103SE 10'	SB- 103SW 10'	SB- 103SW 10' (Dup)	SB-110 3.5-5'	SB-110 8.5-10'	SB-110NE 3-5'	SB- 110NW 3-5'	SB-110SE 3-5'	SB- 110SW 3-5'	SB- 110SW-S 3-3.5'	SB- 113MO 1-2.5'	SB-120 3'	SB-120 6.5'	SB-120 10'	SB-120NE 3'	SB- 120NW 3'	SB-120SE 3'	SB-120SW 3'
Sample Date	Units						7/25/2007	7/25/2007	7/25/2007	7/25/2007	1986	1986	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	7/25/2007	10/2/2012	10/2/2012	1986	1986	1986
Arsenic	mg/kg	5.8	4.6	4.6	37	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Lead - fine	mg/kg	21	700	2,800 (G, X)	900 (DD)	89800	26.8	439	1,520	5,270	--	--	89,800	10,300	11,800	74,800	--	--	--	--	--	8,250	67.5	4,390	54.6
Lead - coarse	mg/kg	21	700	2,800 (G, X)	900 (DD)	132000	5.5	14.4	222	1,850	--	--	132,000	9,940	29,400	43,200	--	--	--	--	--	2,760	10.4	2,710	36.3
Lead - total	mg/kg	21	700	2,800 (G, X)	900 (DD)	120000	6.69	92.9	372	2,150	700	33	120,000	10,000	24,700	55,500	4.32	5.65	2,050	68	11	4,640	17.3	3,100	43.8

Notes:

	Exceeds GSI protection criteria only.
	Exceeds Nonresidential drinking water protection criteria or both the GSI protection and drinking water protection criteria.
	Exceeds MDEQ Nonresidential direct contact criteria.
	Only detected analytes shown.
(DD)	Hazardous substance causes developmental effects. Industrial direct contact criteria are protective for pregnant adult receptor.
(G)	Ground water surface water interface protection criterion depends on the pH or water hardness, or both of the receiving water.
(X)	The GSI protection criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
ND	Not detected.
--	Not analyzed.

Table 6
GLTC Land
Groundwater Analytical Results

Well ID		MDEQ Part 201 Generic Nonresidential Drinking Water Cleanup Criteria	MDEQ Part 201 Generic GSI Cleanup Criteria	MDEQ Part 201 Generic Groundwater Contact Cleanup Criteria	MDEQ Part 201 Generic Nonresidential Volatilization to Indoor Air Cleanup Criteria	Maximum Concentration Detected	MW-7	MW-12	SVE-1	SVE-2	OBG- MW-14	OBG- MW-15	OBG- MW-16	OBG- MW-17	OBG- MW-18	OBG- MW-19	OBG- MW-20	OBG- MW-21	OBG- MW-22	OBG- MW-22	OBG- MW-23
Sample Date	Units						5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	5/12/2005	10/11/2005	11/7/2012	11/7/2012
Acetone	ug/L	2,100	1,700	31,000,000	1,000,000,000 (D,S)	4	<30	<30	<60,000	<100	<30	<30	<30	<30	<30	<30	<30	<30	4	--	<50
Benzene	ug/L	5 (A)	200 (X)	11,000	35,000	1,000	0.6	<1	1,000	267	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<1
2-Butanone	ug/L	38,000	2,200	240,000,000 (S)	240,000,000 (S)	9,000	<30	<30	9,000	<30	<30	<30	<30	<30	<30	<30	<30	<30	<30	--	<25
n-Butylbenzene	ug/L	230	ID	5,900	ID	6	6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<1
sec-Butylbenzene	ug/L	230	ID	4,400	ID	4	4	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<1
tert-Butylbenzene	ug/L	230	ID	8,900	ID	0.9	0.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<1
Chloromethane	ug/L	1,100	ID	490,000	8,600	1	<5	<5	<10,000	<30	1	<5	<5	1	<5	<5	<5	<5	<5	--	<5
Cyclohexane	ug/L	NC	NC	NC	NC	0.6	--	--	--	--	--	--	--	--	--	--	--	--	0.6	--	--
Chlorobenzene	ug/L	100 (A)	25	86,000	470,000 (S)	0.7	<1	<1	<3000	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.7	--	<1
1,1-Dichloroethane	ug/L	2,500	740	2,400,000	2,300,000	0.5	<1	<1	<3000	<5	<1	<1	<1	<1	<1	<1	<1	<1	0.5	--	<1
cis-1,2-Dichloroethene	ug/L	70 (A)	620	200,000	210,000	30	30	<1	<1	<1	<1	0.5	<1	<1	<1	<1	<1	<1	2	--	<1
trans-1,2-Dichloroethene	ug/L	100 (A)	1,500 (X)	220,000	200,00	1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0.3	--	<1
Ethylbenzene	ug/L	74 (E)	18	170,000 (S)	170,000 (S)	2,000	26	<1	2,000	9	<1	<1	<1	<1	<1	<1	<1	<1	0.1	--	<1
Isopropyl benzene	ug/L	2,300	28	56,000 (S)	56,000 (S)	66	27	<1	<1	66	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<5
p-Isopropyltoluene	ug/L	NC	NC	NC	NC	4	3	<1	<1	4	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<5
2-Methylnaphthalene	ug/L	750	19	25,000 (S)	25,000 (S)	3	3	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	--	<5
4-Methyl-2-pentanone	ug/L	5,200	ID	13,000,000	20,000,000 (S)	300,000	<50	<50	300,000	20	<50	<50	<50	<50	<50	<50	<50	<50	<1	--	<50
Methylene Chloride	ug/L	5.0 (A)	1,500 (X)	220,000	1,400,000	1	<5	<5	<1	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	--	<5
Methyl Cyclohexane	ug/L	NC	NC	NC	NC	0.6	--	--	--	--	--	--	--	--	--	--	--	--	0.6	--	--
Naphthalene	ug/L	1,500	11	31,000 (S)	31,000 (S)	48	48	<5	<1	20	<5	1	<5	<5	<5	<5	<5	<5	--	--	<5
n-Propylbenzene	ug/L	230	ID	15,000	ID	27	27	<1	<1	24	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<1
Toluene	ug/L	790 (E)	270	530,000 (S)	530,000 (S)	134,000	<1	<1	134,000	149	<1	0.4	<1	<1	<1	<1	<1	<1	<1	--	<1
1,2,4-Trimethylbenzene	ug/L	63 (E)	17	56,000 (S)	56,000 (S)	160	160	<1	<1	120	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<1
1,3,5-Trimethylbenzene	ug/L	72 (E)	45	61,000 (S)	61,000 (S)	39	33	<1	<1	39	<1	<1	<1	<1	<1	<1	<1	<1	--	--	<1
Vinyl Chloride	ug/L	2.0 (A)	13 (X)	1,000	13,000	2	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	--	<1
o-xylenes	ug/L	280 (E)	41	190,000 (S)	190,000 (S)	3,000	<1	<1	3,000	5	<1	<1	<1	<1	<1	<1	<1	<1	<1	--	<1
p,m-xylenes	ug/L	280 (E)	41	190,000 (S)	190,000 (S)	6,000	3	<2	6,000	1,090	<2	<2	<2	<2	<2	<2	<2	<2	<1	--	<2
Barium	mg/L	2.0 (A)	0.670 (G,X)	14,000	NLV	3.14	0.42	1.00	1.84	3.14	0.024	0.092	0.166	0.057	0.021	0.087	0.095	0.144	0.4	--	--
Lead	mg/L	0.004 (L)	0.016 (G,X)	ID	NLV	0.059	<0.003	<0.003	0.003	0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	0.059	0.055	<0.003

Notes:

	Exceeds GSI MDEQ Part 201criteria only.
	Exceeds MDEQ Part 201 Nonresidential drinking water criteria or both GSI and drinking water criteria.
	Only detected analytes shown.
(A)	Criteria is the state of Michigan drinking water standard.
(E)	Criteria is the aesthetic drinking water value.
(G)	Ground water surface water interface criterion depends on the pH or water hardness, or both of the receiving water.
(L)	Criteria for lead are derived using a biologically based model, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.
(S)	Criterion defaults to the hazardous substance-specific water solubility limit.
(X)	The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.
ID	Means insufficient data to develop criterion.
NLV	Means hazardous substance is not likely to volatilize under most conditions.
NC	No criteria listed.
--	Not analyzed
Methods	8260 for VOCs; 6020 for Barium and Lead.

Table 7
GLTC Land
Groundwater Elevation Data

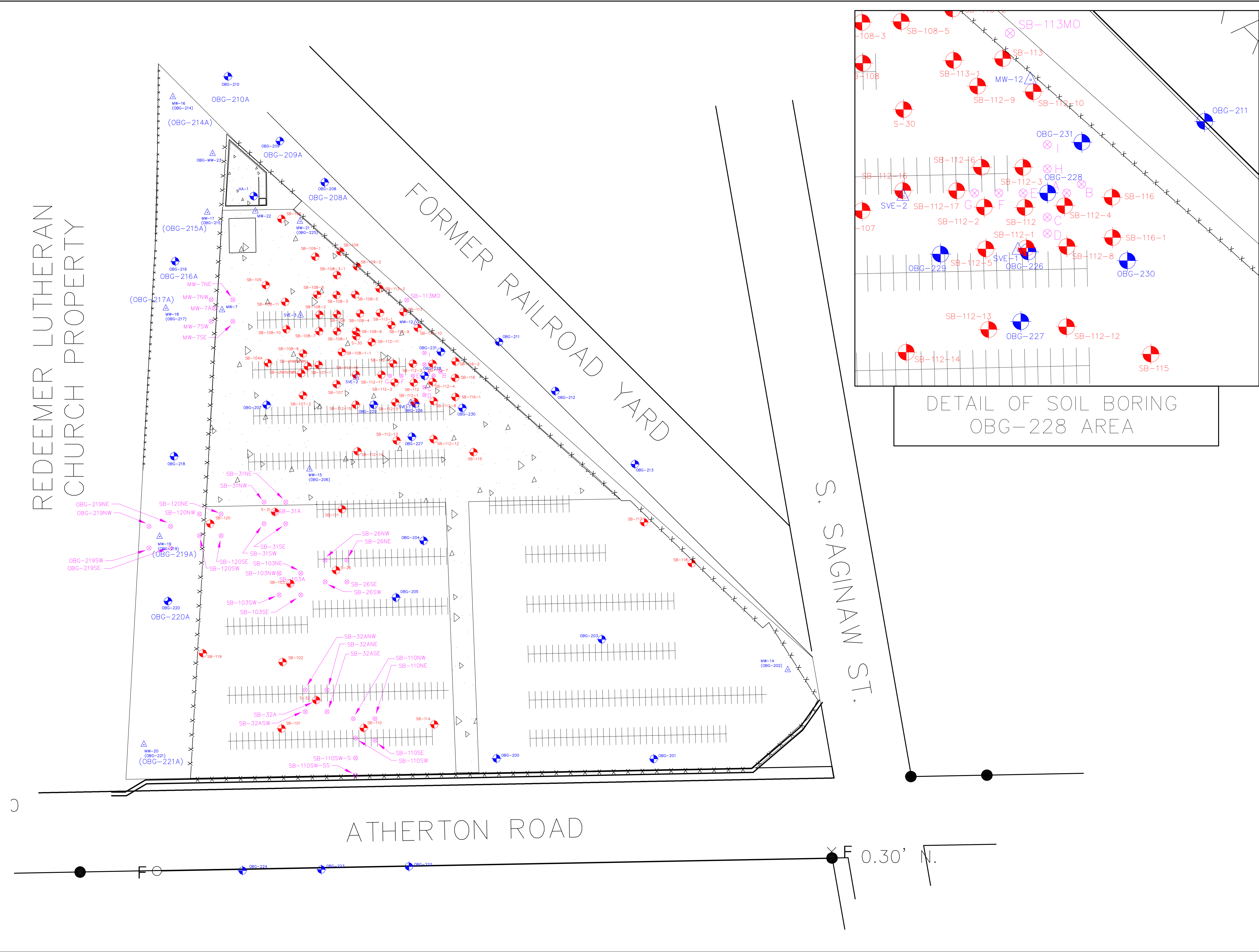
Well ID	TOC Elevation	Deph to Water			Groundwater Elevation		
		5/12/2005	11/22/2005	11/7/2012	5/12/2005	11/22/2005	11/7/2012
MW-7	760.72	9.85	10.50	12.41	750.87	750.22	748.31
MW-12	760.67	12.98	14.50	13.20	747.69	746.17	747.47
OBG-MW14	764.54	7.27	9.44	9.84	757.27	755.10	754.70
OBG-MW15	761.65	18.11	18.05	17.08	743.54	743.60	744.57
OBG-MW16	757.52	13.95	14.57	14.75	743.57	742.95	742.77
OBG-MW17	758.81	11.68	13.84	14.68	747.13	744.97	744.13
OBG-MW18	759.16	5.72	6.45	10.32	753.44	752.71	748.84
OBG-MW19	761.46	7.20	6.75	6.30	754.26	754.71	755.16
OBG-MW20	762.43	7.10	7.18	7.73	755.33	755.25	754.70
OBG-MW21	759.87	13.90	15.49	15.26	745.97	744.38	744.61
OBG-MW-22	756.52	NA	15.32	15.07	NA	741.20	741.45
OBG-MW-23	757.77	NA	NA	17.74	NA	NA	740.03

Notes:

TOC = Top of Casing

NA = Not Available, because the well was not installed at the time the water levels were obtained.

Figures



- LEGEND
- SB-112-12 PRE-SI SOIL BORING
 - OBG-228 SI SOIL BORING
 - MONITORING WELL
 - DELINIEATION BORING

SOIL BORING LOCATIONS

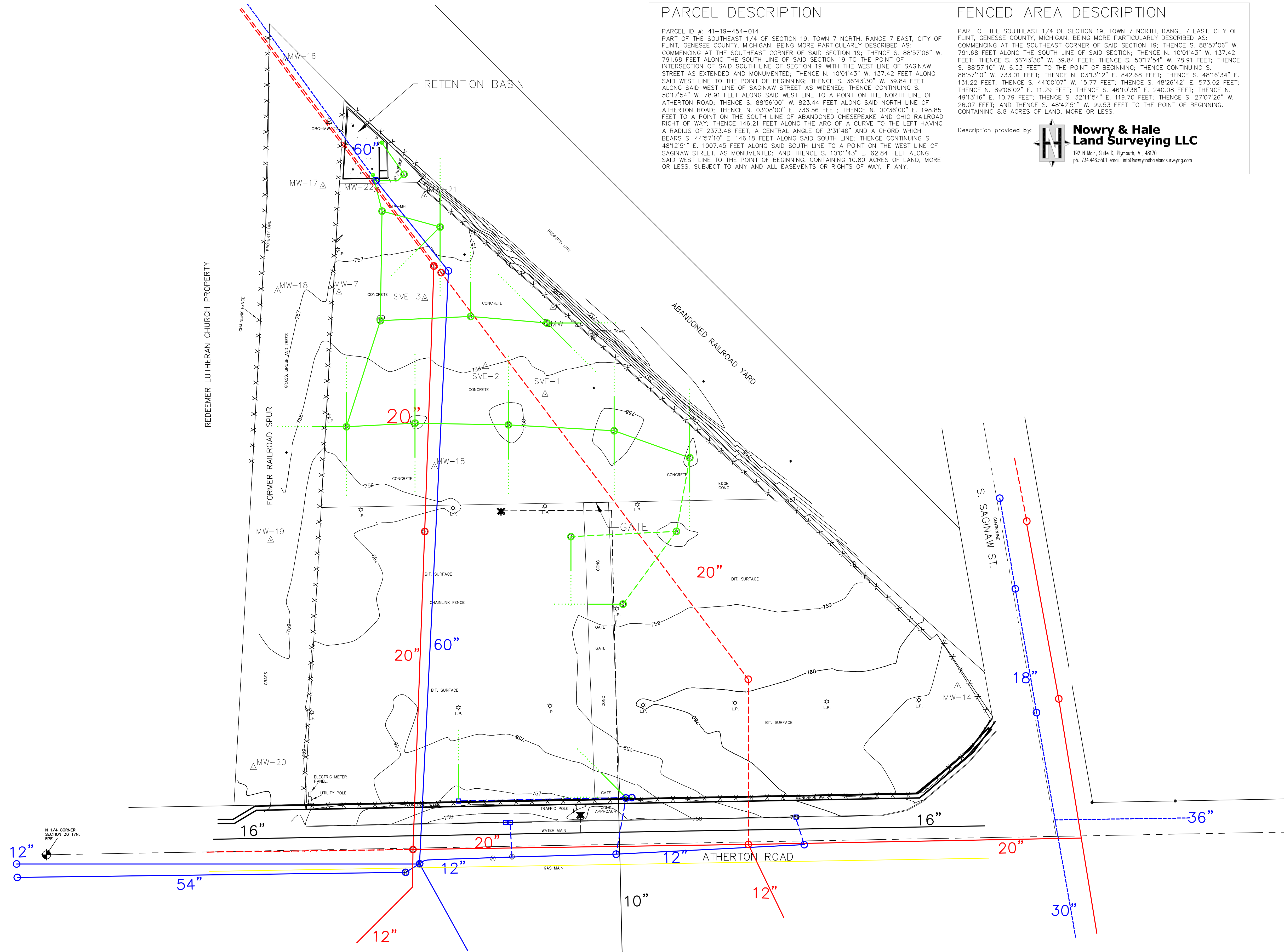
RACER TRUST
GLTC LAND
FLINT, MICHIGAN

FIGURE 2

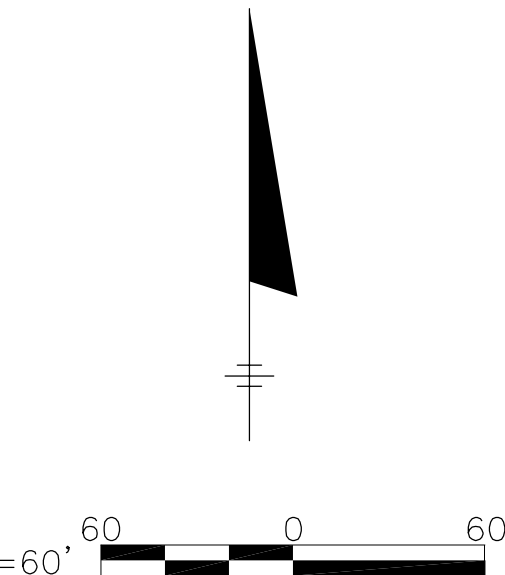
1"=60' 60 0 60

FILE NO. 15388.48632-002
JANUARY 2013





- LEGEND**
- CLEAN OUT
 - ELEC. RISER
 - FIRE HYDRANT
 - ELEC. TRANSFORMER
 - GUY ANCHOR
 - VENT
 - LIGHT POLE
 - WATER STOP BOX
 - WATER VALVE
 - SPEAKER BOX
 - POWER POLE
 - ROUND CATCH BASIN
 - SIGN
 - SQUARE CATCH BASIN
 - TELEPHONE RISER
 - SET IRON
 - FOUND IRON
 - ELECTRIC
 - GAS
 - FENCE
 - MONITORING WELL
 - SURVEYED STM. MANHOLE
 - SURVEYED SAN. MANHOLE
 - PRIVATE STORM MANHOLE
 - STORM SEWER MANHOLE
 - SANITARY SEWER MANHOLE



**SITE FEATURES/
UTILITY MAP**

RACER TRUST
GLTC LAND
FLINT, MICHIGAN

FIGURE 5

15388-48632.005
JANUARY 2013



REDEEMER LUTHERAN CHURCH PROPERTY

SALT STORAGE
BUILDING

RETENTION BASIN

FORMER RAILROAD YARD

CSX
RAILROAD
PROPERTY

S. SAGINAW ST.

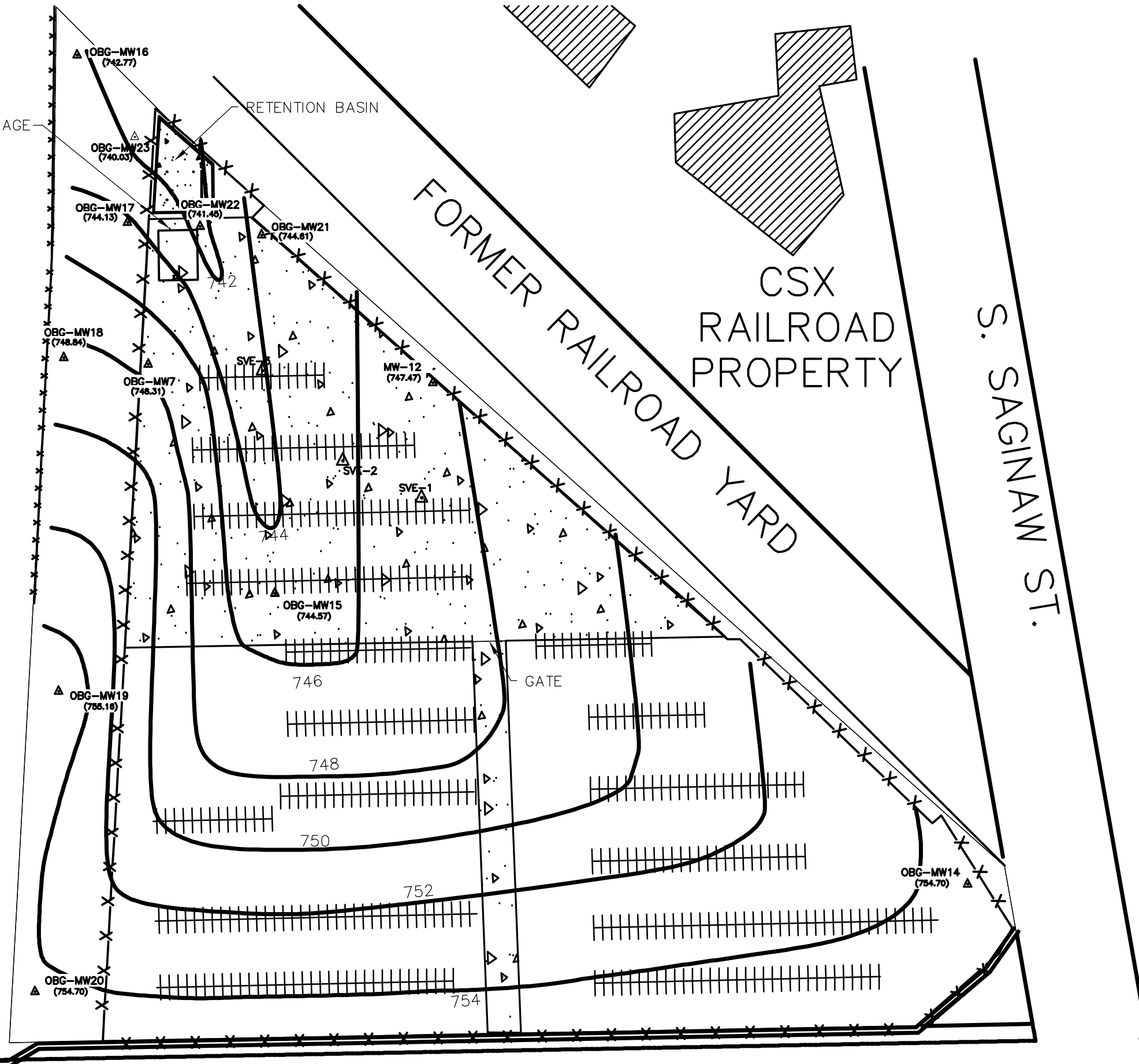


FIGURE 8

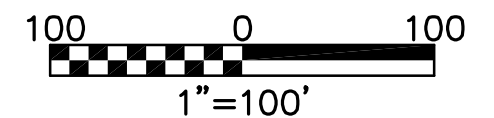


LEGEND

- ▲ MONITORING WELL LOCATION
- (744.00) GROUND WATER ELEVATIONS
(FEET ABOVE MEAN SEA LEVEL)

RACER TRUST
GLTC LAND
FLINT, MICHIGAN

GROUNDWATER
CONTOUR MAP
(NOVEMBER 07, 2012)



FILE NO. 15388.48632.008
JANUARY 2013



Attachments

Attachment A
MDEQ Approval email Dated
August 3, 2012

Clifford Yantz

From: Innes, Jim (DEQ) <INNESJ@michigan.gov>
Sent: Friday, August 03, 2012 11:32 AM
To: Clifford Yantz
Cc: Dave Favero; Kevin Schneider
Subject: RE: RACER Trust - 12981 - GLTC Land - Proposed Scope of Work

Cliff and Dave,

The proposed field work, sampling plan, and budget are approved. Feel free to schedule at your convenience. I will follow up with you concerning the RC next week. Have an wonderful weekend.

Jim Innes
DEQ-RD
Lansing DO
TX 517-335-6241
FX 517-241-3571

From: Clifford Yantz [mailto:Clifford.Yantz@obg.com]
Sent: Monday, July 30, 2012 3:54 PM
To: Innes, Jim (DEQ)
Cc: Dave Favero; Kevin Schneider
Subject: RACER Trust - 12981 - GLTC Land - Proposed Scope of Work

Jim,
On behalf of RACER Trust, O'Brien & Gere would like to present the following scope of work to address MDEQ's comments provided during our recent meeting on July 16, 2012 concerning the notice of insufficient information in No Further Action report for the RACER Trust GLTC Land (formerly Die Storage Lot) site.

We propose the installation of one monitoring well (MW-23) located approximately 80 ft northwest of MW-22 between the sanitary and storm sewers located in this area (along the utility corridor), which would place the well close to the property boundary of the site. It is assumed that the well would be screened from about 20 to 15 feet below grade (similar to MW-22) utilizing a five foot long, 2 inch inside diameter, #10 slot PVC well screen and sufficient riser pipe to reach about 2 ft above grade. A sand pack would be installed around the well screen to a height of about 2 ft above the top of the well screen and then coarse granular bentonite would be placed above the sand pack to grade to seal the well. A stick up well protector would be installed within the bentonite to protect the well, which would be locked. The well will be developed by surging the well with a surge block and purging the well.

Following well development and a two week stabilization period, MW-23 will be sampled for VOCs, PAHs and lead and MW-22 will be sampled for lead. The only QC sample that will be collected will be a trip blank for the VOC sample. The groundwater samples will be collected using dedicated (new) tubing and a peristaltic pump, and low-flow sampling techniques.

Two soil samples will be collected for lead, one just northeast of SB-113 outside the fence, and at a depth that corresponds to the 1.5 to 3.0 ft below grade sample depth at the original location (which may be slightly shallower due to topography changes just outside of the fence), and a second sample will be collected south of SB-110SW, between the perimeter fence and SB-110SW at a depth of 3 to 5 ft below grade.

O'Brien & Gere proposes to spread the cuttings from drilling MW-23 and soil sampling at the drilling locations, and will discharge the development, purge and decontamination water within the SB-110 area.

We will also have the perimeter fence surveyed and a description of the survey tied to the legal survey of the property, as discussed in our July 16, 2012 meeting.

During our meeting, I thought the MDEQ indicated that they would provide comments on the existing version of the restrictive covenant submitted with the NFA report to aid in our revision of this document. If so, we will revise the draft restrictive covenant to include the MDEQ's comments and include the new survey data. Following receipt of the analytical and survey work, we will provide a brief letter report summarizing the data and will submit a Response Activity Plan to document this work along with the revised restrictive covenant for your review, prior to filing the restrictive covenant to make sure that the language in the final version is acceptable.

O'Brien & Gere has estimated the cost for these activities at approximately \$5,900, which includes subcontractor costs of \$2,562 and laboratory costs for Merit Laboratories of \$285.

Thank you and have a great day,
CSY



Clifford S. Yantz

TECHNICAL ASSOCIATE

O'BRIEN & GERE

37000 Grand River Ave. | Suite 260

Farmington Hills, MI 48335-2887

p 248-477-5701 ext. 16 | f 248-477-5962

c 313-333-0211

clifford.yantz@obg.com

www.obg.com

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Attachment B
Test Pit and Boring Logs



O'BRIEN & GERE

BORING LOG

TEST PIT NO. TP-1

PROJECT: GLTC Land
CLIENT: RACER
INSPECTOR: Clifford Yantz

SHEET 1 OF 1

JOB NO.

DRILLING CONTRACTOR: Youngs Environmental Cleanup

GROUND ELEV.

DRILLER: George

PURPOSE: Expose Storm Sewer

DRILLING METHOD: Backhoe

DRILL RIG TYPE: John Deere 710D

DATUM

DATE STARTED 10/2/2012

DATE FINISHED 10/2/2012

	SAMPLE	CORE	CASING
TYPE	SS	---	---
DIA.	---	---	---

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	REMARKS
2	SS-1		13.0'/ 12.0'	Moist, yellowish medium brown, medium to fine SAND, little concrete and debris, little silt (FILL)		SM		
				2.5 Moist, gray, sandy and gravelly SLAG (FILL)				
4						SM		
				4.8 Light gray, medium to fine SAND, (FILL)				
				5.0 Moist, medium reddish brown, silty coarse to fine SAND, white clay (FILL)		SM		
6								
8						SM		
10								
12				Top of storm sewer at 12'		SM		
13.0				End of Test Pit at 13.0'.				
14								
16								
18								
20								
22								
24								

Notes:



O'BRIEN & GERE

BORING LOG

WELL NO. OBG-MW-23

PROJECT: GLTC Land
CLIENT: RACER
INSPECTOR: Clifford Yantz

SHEET 1 OF 1

JOB NO.

DRILLING CONTRACTOR: Applied EcoSystems, Inc

GROUND ELEV.

DRILLER: Lynn**PURPOSE:** Monitoring well installation

DATUM

DRILLING METHOD: Direct Push, HSA

	SAMPLE	CORE	CASING
TYPE	SS	---	---
DIA.	2"	2"	---

DATE STARTED 10/2/2012

DRILL RIG TYPE: Geoprobe

DATE FINISHED 10/2/2012

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	Well Graphic	REMARKS
0.5				Moist, dark brown, TOP SOIL, some humus, coarse to fine sandy little silt					
2	SS-1		5.0'/ 3.9'	Moist, yellowish medium brown, medium-fine silty SAND, (FILL)		SM			
2.5									
4				Moist, gray, silty coarse to fine SAND, trace to little gravel, little reworked clay at 4.0" to 4.2", (FILL)		SM			
4.8									
5.0				Light gray, silty (powdery) coarse to fine SAND, looks like crushed concrete, but in TP-1 it was a continuous layer, (FILL)		SM			
5.8									
6				Moist, yellowish brown, medium-fine SAND, some silt, (FILL)		SM			
7.2									
7.5				Topsoil (some roots), silt, medium-fine SAND		SM			
8	SS-2		5.0'/ 4.2'	Moist, reddish brown, silty medium to fine SAND, trace fine gravel, trace clay		SM			
9.3									
9.6				Gray, silty CLAY, few roots		CL- ML			
10				Moist, reddish brown, medium to fine SAND (trace coarse sand), little to some silt, trace to little fine gravel					
12	SS-3		5.0'/ 4.1'			SM			
14									
15.2				Moist to wet, medium brownish gray, medium to fine SAND, some silt		SM			
16.2				Wet, gray SILT, some clay, some sand		ML			
17.0				Moist, gray, silty CLAY, some coarse to fine sand, little coarse to fine gravel					
18	SS-4		5.0'/ 5.0'			CL			
20				Wet, gray, silty, medium to fine SAND (trace coarse sand)					
20.0						SM			
22.9				Moist, gray, silty CLAY, some coarse to fine sand, little coarse to fine gravel (glacial till)					
24	SS-5		5.0'/ 4.0'			CL			
25.0									

End of Borehole at 25.0'.

Notes:



O'BRIEN & GERE

BORING LOG

BORING NO. SB-110SW-S

PROJECT: GLTC Land
CLIENT: RACER
INSPECTOR: Clifford Yantz

SHEET 1 OF 1

JOB NO.

DRILLING CONTRACTOR: O'Brien & Gere

GROUND ELEV.

DRILLER: Clifford Yantz

PURPOSE: Soil Boring Installation

DRILLING METHOD: Hand Auger

DRILL RIG TYPE: Hand Auger

	SAMPLE	CORE	CASING
TYPE	SS	---	---
DIA.	---	---	---

DATUM

DATE STARTED 10/2/2012

DATE FINISHED 10/2/2012

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	REMARKS
0	SS-1		3.5/ 3.5'	ASPHALT	0.2			
2				Moist, dark gray, coarse to fine sandy, coarse to fine gravelly SLAG, (FILL)	1.5	SP		
				Moist, brown to grayish brown, silty reworked CLAY, little to some coarse to fine sand, (FILL)	2.1	CL		
4				Moist, dark gray to reddish gray, coarse to fine sandy, coarse to fine gravelly SLAG, (FILL)	3.5	SP		
				End of Borehole at 3.5'.				Sample collected from 3.0'-3.5'
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								

Notes:



O'BRIEN & GERE

BORING LOG

BORING NO. SB-110SW-SS

PROJECT: GLTC Land
CLIENT: RACER
INSPECTOR: Clifford Yantz

SHEET 1 OF 1

JOB NO.

DRILLING CONTRACTOR: O'Brien & Gere

GROUND ELEV.

DRILLER: Clifford Yantz

DATUM

PURPOSE: Soil Boring Installation

DRILLING METHOD: Hand Auger

DRILL RIG TYPE: Hand Auger

	SAMPLE	CORE	CASING
TYPE	SS	---	---
DIA.	---	---	---

DATE STARTED 10/2/2012

DATE FINISHED 10/2/2012

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	REMARKS
0				ASPHALT	0.2			
1				Moist, dark gray, GRAVEL mixed with slag, road base, (FILL)	1.0	GP		
2	SS-1		4.5'/4.5'	Moist, light yellowish brown, medium to fine SAND, trace silt, trace fine gravel, (FILL)	2.5	SP		
3				Moist, dark gray, coarse to fine sandy, coarse to fine gravelly SLAG, possibly mixed with foundry sand, (FILL)		SP		Sample collected 3.0'-4.5'
4				End of Borehole at 4.5'.	4.5			
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								

Notes:



O'BRIEN & GERE

BORING LOG

BORING NO. SB-113MO

PROJECT: GLTC Land
CLIENT: RACER
INSPECTOR: Clifford Yantz

SHEET 1 OF 1

JOB NO.

DRILLING CONTRACTOR: O'Brien & Gere

GROUND ELEV.

DRILLER: Clifford Yantz

DATUM

PURPOSE: Soil Boring Installation

DRILLING METHOD: Hand Auger

DRILL RIG TYPE: Hand Auger

	SAMPLE	CORE	CASING
TYPE	SS	---	---
DIA.	---	---	---

DATE STARTED 10/2/2012

DATE FINISHED 10/2/2012

DEPTH (ft)	Sample Type Number	Blows/6" (N Value)	Penetration/ Recovery	MATERIAL DESCRIPTION	Graphic Log	USCS Symbol	Stratum Change	REMARKS
2	SS-1		2.5/ 2.5'	ASPHALT Moist, medium to dark brown, medium to fine SAND, trace coarse sand, trace fine gravel, little silt, (FILL)	0.2	SP-SC		Sample collected 1.0'-2.5'
4				End of Borehole at 2.5'.	2.5			
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								

Notes:

Attachment C
Laboratory Reports and
Chain-of-Custody Documents



Analytical Laboratory Report

Report ID: S54113.01(01)
Generated on 10/09/2012

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

Phone: 248-477-5701 FAX:
Email: YantzCS@obg.com/

Report produced by

Merit Laboratories
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Report Summary

Lab Sample ID(s): S54113.01-S54113.03
Project: RACER GLTC Land Site
Collected Date: 10/02/2012
Submitted Date/Time: 10/03/2012 14:35
Sampled by: Kevin Schneider
P.O. #: 11210791

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
"Not detected" indicates that parameter was not found at a level equal to or greater than the RL.
Samples are held by the lab for 30 days from the sample submittal date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54113.01	SB-113MO	Soil	10/02/2012 13:00
S54113.02	SB-110SW-SS	Soil	10/02/2012 13:35
S54113.03	SB-110SW-S	Soil	10/02/2012 13:50



Analytical Laboratory Report

Lab Sample ID: S54113.01
Sample Tag: SB-113MO
Collected Date/Time: 10/02/2012 13:00
Matrix: Soil
COC Reference: 59803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3050B	10/08/12 12:00	PER		
Inorganics								
Total Solids	93	%	1	Std M 2540 B	10/05/12 08:00	RGS		
Metals								
Lead	5.65	mg/kg	0.30	SW6020	10/08/12 17:06	PER	7439-92-1	



Analytical Laboratory Report

Lab Sample ID: S54113.02
Sample Tag: SB-110SW-SS
Collected Date/Time: 10/02/2012 13:35
Matrix: Soil
COC Reference: 59803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Other / Misc.								
Hold until notified	Completed				10/03/12 15:30	TSF		



Analytical Laboratory Report

Lab Sample ID: S54113.03
Sample Tag: SB-110SW-S
Collected Date/Time: 10/02/2012 13:50
Matrix: Soil
COC Reference: 59803

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	4.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3050B	10/08/12 12:00	PER		
Inorganics								
Total Solids	82	%	1	Std M 2540 B	10/05/12 08:00	RGS		
Metals								
Lead	4.32	mg/kg	0.30	SW6020	10/08/12 17:07	PER	7439-92-1	



2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-6333
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

59803

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Clifford Yantz			
COMPANY O'Brien & Gere			
ADDRESS 37000 Grand River			
CITY Farmington Hills		STATE MI	ZIP CODE 48335
PHONE NO. 248-477-5701	FAX NO. 248-477-5942	P.O. NO.	
E-MAIL ADDRESS Clifford.Yantz@OBG.com		QUOTE NO.	

CONTACT NAME X SAME		
COMPANY		
ADDRESS		
CITY	STATE	ZIP CODE
PHONE NO.	FAX NO.	P.O. NO.

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME RACER GLTC Land site	SAMPLER(S) - PLEASE PRINT/SIGN NAME Kevin Senger
TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER	

MATRIX CODE:	GW=GROUNDWATER SL=SLUDGE	WW=WASTEWATER O=OIL	S=SOIL A=AIR	L=LIQUID W=WASTE	SD=SOLID M=MISC
--------------	-----------------------------	------------------------	-----------------	---------------------	--------------------

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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RELINQUISHED BY: SIGNATURE/ORGANIZATION O'Brien & Gere	DATE 10/3/12	TIME 1140
RECEIVED BY: SIGNATURE/ORGANIZATION Max	DATE 10-3-12	TIME 1140
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE 10-3-12	TIME 1435
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES: TEMP. ON ARRIVAL 4.1		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S54516.01(01)
Generated on 11/14/2012

Report to

Attention: Clifford Yantz
O'Brien & Gere Engineers, Inc.
37000 Grand River Ave.
Suite 260
Farmington, MI 48335

Phone: 248-477-5701 FAX:
Email: Clifford.Yantz@obg.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:

Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54516.01-S54516.03
Project: 48632.002.001/GLTC Land
Collected Date: 11/07/2012
Submitted Date/Time: 11/08/2012 12:45
Sampled by: Cliff Yantz
P.O. #: 11210791

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54516.01	Trip Blank - 01	Liquid	11/07/2012 00:01
S54516.02	MW-23	Groundwater	11/07/2012 15:35
S54516.03	MW-22	Groundwater	11/07/2012 17:00



Analytical Laboratory Report

Lab Sample ID: S54516.01
Sample Tag: Trip Blank - 01
Collected Date/Time: 11/07/2012 00:01
Matrix: Liquid
COC Reference: 61424

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	11/12/12 19:05	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	11/12/12 19:05	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	11/12/12 19:05	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	11/12/12 19:05	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	11/12/12 19:05	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	11/12/12 19:05	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	11/12/12 19:05	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	100-41-4	



Analytical Laboratory Report

Lab Sample ID: S54516.01 (continued)

Sample Tag: Trip Blank - 01

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/12/12 19:05	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:05	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	11/12/12 19:05	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S54516.02
Sample Tag: MW-23
Collected Date/Time: 11/07/2012 15:35
Matrix: Groundwater
COC Reference: 61424

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	4.0	IR
2	1L Amber	None	Yes	4.0	IR
1	125ml Plastic	HNO3	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

Metal Digestion	Completed			3015A	11/14/12 09:00	PER		
PNA Extraction	Completed			3510C	11/12/12 23:49	EMR		

Metals

Lead	Not detected	mg/L	0.003	E200.8	11/14/12 12:36	PER	7439-92-1	
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Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	83-32-9	
Acenaphthylene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	208-96-8	
Anthracene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	56-55-3	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	191-24-2	
Chrysene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	11/13/12 12:25	JGH	53-70-3	
Fluoranthene	Not detected	ug/L	1	SW8270C	11/13/12 12:25	JGH	206-44-0	
Fluorene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	11/13/12 12:25	JGH	193-39-5	
Naphthalene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	91-20-3	
Phenanthrene	Not detected	ug/L	2	SW8270C	11/13/12 12:25	JGH	85-01-8	
Pyrene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	129-00-0	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	91-57-6	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	11/13/12 12:25	JGH	90-12-0	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	11/12/12 19:25	WAT	60-29-7	
Acetone	Not detected	ug/L	50	SW8260B	11/12/12 19:25	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260B	11/12/12 19:25	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	11/12/12 19:25	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	75-00-3	



Analytical Laboratory Report

Lab Sample ID: S54516.02 (continued)

Sample Tag: MW-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	11/12/12 19:25	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	11/12/12 19:25	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260B	11/12/12 19:25	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	56-23-5	
Benzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260B	11/12/12 19:25	WAT		
o-Xylene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	95-47-6	
Styrene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	11/12/12 19:25	WAT	104-51-8	



Analytical Laboratory Report

Lab Sample ID: S54516.02 (continued)

Sample Tag: MW-23

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Hexachloroethane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	11/12/12 19:25	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S54516.03

Sample Tag: MW-22

Collected Date/Time: 11/07/2012 17:00

Matrix: Groundwater

COC Reference: 61424

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	125ml Plastic	HNO3	Yes	4.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Extraction / Prep.								
Metal Digestion	Completed			3015A	11/14/12 09:00	PER		
Metals								
Lead	0.055	mg/L	0.003	E200.8	11/14/12 12:37	PER	7439-92-1	



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www.meritlabs.com

C.O.C. PAGE # 1 OF 1

61424

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE

CONTACT NAME Clifford Yantz		CONTACT NAME ☒ SAME	
COMPANY O'Brien & Gere		COMPANY	
ADDRESS 37000 Grand River Ave #260		ADDRESS	
CITY Farmington Hills	STATE MI	ZIP CODE 48375	CITY
PHONE NO. 248 4775701	FAX NO. 248 4775962	P.O. NO. OBGP0# 11210791	STATE
E-MAIL ADDRESS clifford.yantz@obg.com		QUOTE NO.	ZIP CODE
		PHONE NO.	
		FAX NO.	
		P.O. NO.	
ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)			

PROJECT NO./NAME 48632.002001/GUTC Land		SAMPLER(S) - PLEASE PRINT/SIGN NAME Clifford Yantz / Clifford Yantz		SPECIAL INSTRUCTIONS/NOTES	
TURNAROUND TIME REQUIRED ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ STANDARD ☐ OTHER					
DELIVERABLES REQUIRED ☒ STANDARD ☐ LEVEL II ☐ LEVEL III ☐ OTHER					
MATRIX CODE:	GW=GROUNDWATER SL=SLUDGE	WW=WASTEWATER O=OIL	S=SOIL A=AIR	L=LIQUID W=WASTE	SD=SOLID M=MISC
		# Containers & Preservatives			
MERIT LAB NO.	YEAR DATE TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE HCL HNO3 H2SO4 NaOH MeOH OTHER
54516.01	11/7/12	Trip Blank - 01	L	1	
.02	15:35	MW-23	GW	5	221
.03	17:00	MW-22	GW	1	1
C23					

LOCs
PAHs
Lead (total)

RELINQUISHED BY: SIGNATURE/ORGANIZATION Clifford Yantz / OBG	DATE 11/8/12	TIME 8:49	RELINQUISHED BY: SIGNATURE/ORGANIZATION Clifford Yantz	DATE 11/8/12	TIME 10:55
RECEIVED BY: SIGNATURE/ORGANIZATION MON	DATE 11/8/12	TIME 10:55	RECEIVED BY: SIGNATURE/ORGANIZATION Clifford Yantz	DATE 11/8/12	TIME 10:55
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
			NOTES: TEMP. ON ARRIVAL 40		

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE

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