



January 31, 2014

Michael D. MacCabe, P.E.
Senior Environmental Engineer
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway, 12th Floor
Albany, NY 12233-7016

**Re: 4th Quarter 2013 Site Status Update Report
Former Mobil Service Station 17-EMW
304 Columbia Street
Brooklyn, New York
NYSDEC Spill #89-04339**

Dear Mr. MacCabe:

Please find the enclosed *Site Status Update Report* for work performed between October and December of 2013 for 304 Columbia Street in Brooklyn, New York (the Site). During this monitoring period, the following work was performed:

Surfactant Injection and Extraction Events

Two (2) surfactant injection and extraction events were conducted at the Site during the 4th quarter of 2013 to reduce the presence of liquid-phase hydrocarbons (LPH) in the vicinity of the western property boundary. During the first event conducted in October of 2013, a total of 750 gallons of surfactant solution were injected into monitoring wells MW-1, MW-2, MW-11, MW-17, MW-19 and MW-20. Following completion of the surfactant injections and approximately 24-48 hours later, a total of 1,022 gallons of fluids were extracted from the same monitoring wells. The second surfactant injection and extraction event was conducted in November of 2013 wherein a total of 500 gallons of surfactant solution were injected into monitoring wells MW-1, MW-2, MW-13 and MW-16 and a total of 1,008 gallons of fluids were extracted from the same monitoring wells.

Monitoring Well Installation Report

A *Monitoring Well Installation Report* was submitted to the NYSDEC on October 15, 2013 detailing the August and September 2013 well installation activities.

Quarterly Groundwater Monitoring

The 4th quarter groundwater monitoring event was conducted on December 10, 2013. Sixteen monitoring wells were gauged and sampled (MW-1 through MW-3, MW-5, MW-8A and MW-10 through MW-20). Samples collected were analyzed for BTEX and MTBE. Monitoring well MW-7A was inaccessible and MW-9 could not be located; therefore, neither well was gauged or sampled. Dissolved oxygen readings were collected from all accessible monitoring wells.

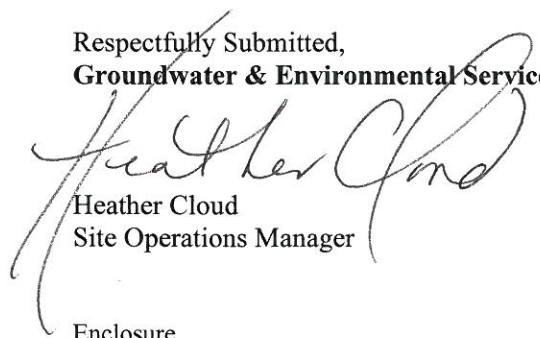


BTEX concentrations ranged from non-detect at two (2) wells (MW-5 and MW-7A) to 12,570 µg/L (MW-10). MTBE concentrations ranged from non-detect at six (6) wells (MW-1, MW-3, MW-5, MW-14, MW-17 and MW-18) to 464 µg/L (MW-10).

GES will continue to perform quarterly groundwater monitoring in March 2014. The 1st Quarter 2014 Site Status Update Report will be submitted in April 2014.

Should you have any questions or comments regarding the information provided herein, please contact Heather Cloud at (800) 360-9405 extension 4324.

Respectfully Submitted,
Groundwater & Environmental Services, Inc.



Heather Cloud
Site Operations Manager

Enclosure

cc: Laurie McCarthy-Exxon Mobil Environmental Services Company



**EXXONMOBIL ENVIRONMENTAL SERVICES COMPANY
SITE STATUS UPDATE REPORT**

Site ID:	Former Mobil Station #17-EMW	Regulatory Agency:	NYSDEC - Region 2
Site Address:	304 Columbia Street Brooklyn, New York	Regulatory Contact:	Michael MacCabe, P.E.
ExxonMobil Contact:	Laurie McCarthy	NYSDEC Spill #(s):	89-04339
Consultant:	Groundwater & Environmental Services, Inc. (GES)	GES Project Manager:	Heather Cloud

Report Date: January 31, 2014

Monitoring Period: October through December 2013

Current Site Status: The site is currently an automobile repair facility.

Work Performed:

- October 7 through 11, 2013 – A surfactant injection and extraction event was conducted at the Site to reduce the presence of LPH along the western property boundary. On October 7, 2013, 750 gallons of surfactant solution were injected into monitoring wells MW-1, MW-2, MW-11, MW-17, MW-19 and MW-20. Between October 8 and 11 of 2013, a total of 1,022 gallons of fluids were extracted from the same monitoring wells. Copies of the non-hazardous waste manifests have been included as **Attachment C**.
- October 15, 2013 – A *Monitoring Well Installation Report* was submitted to the NYSDEC detailing the August and September 2013 well installation activities.
- November 11 through 14, 2013 – A surfactant injection and extraction event was conducted at the Site. On November 11, 2013, a total of 500 gallons of surfactant solution was injected into monitoring wells MW-1, MW-2, MW-13 and MW-16. Between November 12 and 14 of 2013, a total of 1,008 gallons of fluids were extracted from the same monitoring wells. Copies of the non-hazardous waste manifests have been included as **Attachment C**.
- December 10, 2013 – Conducted quarterly groundwater monitoring activities which included gauging and sampling of 16 wells (MW-1 through MW-3, MW-5, MW-8A and MW-10 through MW-20). Monitoring well MW-7A was inaccessible and MW-9 could not be located; therefore, neither well was gauged or sampled. Dissolved oxygen readings were collected from all accessible monitoring wells.

Groundwater Monitoring:

Number of Wells:	Total = 18 <u>On-site Wells:</u> MWs (14): MW-1 through MW-3, MW-5, MW-7A, MW-11 through MW-14 and MW-16 through MW-20 <u>Off-site Wells:</u> MWs (4): MW-8A, MW-9, MW-10 and MW-15
Gauging Frequency:	Quarterly
LPH:	None
Groundwater Depth:	9.45 (MW-17) to 11.44 (MW-8A) feet below TOC
Groundwater Flow:	Southwesterly
Sampling Frequency:	Quarterly
Groundwater Analytical Results:	<u>BTEX</u> : ND at two (2) wells (MW-5 and MW-15) to 12,570 µg/L (MW-10) <u>MTBE</u> : ND at six (6) wells (MW-1, MW-3, MW-5, MW-14, MW-17 and MW-18) to 464 µg/L (MW-10)

Proposed Plans:

- Conduct quarterly groundwater sampling in March 2014.
- Prepare a Site Status Update Report in April 2014 documenting quarterly site activities.

Attachments:

Table 1 – Historical Groundwater Monitoring Data

Table 2 – Historical Groundwater Biomonitoring Data

Figure 1 – Groundwater Monitoring Map – December 10, 2013

Attachment A – List of Acronyms

Attachment B – Site History

Attachment C – Non-Hazardous Waste Manifests

Attachment D – Laboratory Analytical Results – Groundwater

TABLES

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-1	02/28/05	100.00	8.48	0.01	91.53	-	-	-	-	-	-
	06/06/05	100.00	8.41	0.01	91.60	-	-	-	-	-	-
	09/08/05	100.00	9.10	0.08	90.96	-	-	-	-	-	-
	12/29/05	100.00	7.95	0.01	92.06	-	-	-	-	-	-
	03/20/06	100.00	8.69	0.09	91.38	-	-	-	-	-	-
	06/07/06	100.00	7.65	0.00	92.35	-	-	-	-	-	-
	09/14/06	100.00	7.70	0.19	92.44	-	-	-	-	-	-
	12/07/06	100.00	7.88	0.26	92.32	-	-	-	-	-	-
	03/29/07	100.00	8.44	0.16	91.68	-	-	-	-	-	-
	06/13/07	100.00	-	-	-	-	-	-	-	-	-
	09/19/07	100.00	9.03	0.35	91.23	-	-	-	-	-	-
	12/11/07	100.00	9.10	0.02	90.92	-	-	-	-	-	-
	03/13/08	100.00	8.46	0.00	91.54	220	79.8	830	414	1,544	14.9
	06/06/08	100.00	8.61	0.00	91.39	271	89.1	817	481	1,658	17.3
	12/30/08	100.00	8.24	0.00	91.76	216	67.8	539	336	1,159	13.2
	03/16/09	100.00	9.41	0.00	90.59	215	78.8	761	474	1,529	9
	06/08/09	100.00	8.23	0.00	91.77	24	88.4	551	692	1,355	ND < 5
	07/20/09	100.00	8.48	0.28	91.73	-	-	-	-	-	-
	09/24/09	100.00	9.12	0.14	90.99	-	-	-	-	-	-
	12/03/09	100.00	8.96	0.10	91.12	-	-	-	-	-	-
	03/03/10	100.00	7.98	0.00	92.02	109	75.2	948	293	1,425	3.6
	06/07/10	100.00	8.31	0.04	91.72	-	-	-	-	-	-
	09/01/10	100.00	9.36	0.00	90.64	89.3	86.5	1,010	405	1,591	ND < 20
	12/03/10	100.00	9.13	0.03	90.89	-	-	-	-	-	-
	03/29/11	100.00	8.01	0.17	92.12	-	-	-	-	-	-
	06/16/11	100.00	5.53	0.40	94.77	-	-	-	-	-	-
	08/08/11	100.00	9.06	0.18	91.08	-	-	-	-	-	-
	09/19/11	100.00	7.75	0.38	92.54	-	-	-	-	-	-
	12/05/11	100.00	8.24	0.12	91.85	-	-	-	-	-	-
	03/16/12	100.00	9.32	0.03	90.70	-	-	-	-	-	-
	06/08/12	100.00	8.44	0.00	91.56	33.0	29.2	199	147	408.2	ND < 1.00
	09/07/12	100.00	8.81	0.00	91.19	33.5	20.5	270	119	443	ND < 1.00
	12/18/12	100.00	8.93	0.00	91.07	33.5	25.4	363	203	624.9	ND < 1.00
	03/14/13	100.00	8.71	0.00	91.29	42.8	38.0	378	227	685.8	ND < 1.00
	06/24/13	100.00	7.59	0.00	92.41	37.5	36.0	464	224	761.5	ND < 1.00
	09/06/13	100.00	8.93	0.08	91.13	-	-	-	-	-	-
	09/26/13	100.00	9.14	0.16	90.98	-	-	-	-	-	-
	10/23/13	100.00	9.41	0.04	90.62	-	-	-	-	-	-
	11/11/13	100.00	9.74	0.00	90.26	-	-	-	-	-	-
	12/10/13	100.00	9.88	0.00	90.12	16.7	28.7	315	211	571.4	ND < 1.00
MW-2	02/28/05	100.16	8.78	0.01	91.39	-	-	-	-	-	-
	06/06/05	100.16	8.66	0.01	91.51	-	-	-	-	-	-
	09/08/05	100.16	9.87	0.25	90.48	-	-	-	-	-	-
	12/29/05	100.16	8.26	0.01	91.91	-	-	-	-	-	-
	03/20/06	100.16	8.96	0.08	91.26	-	-	-	-	-	-
	06/07/06	100.16	7.73	0.00	92.43	-	-	-	-	-	-
	09/14/06	100.16	7.90	0.32	92.50	-	-	-	-	-	-
	12/07/06	100.16	8.20	0.40	92.26	-	-	-	-	-	-
	03/29/07	100.16	8.81	0.09	91.42	-	-	-	-	-	-
	06/13/07	100.16	8.15	0.43	92.33	-	-	-	-	-	-
	09/19/07	100.16	9.18	0.50	91.36	-	-	-	-	-	-
	12/11/07	100.16	9.35	0.07	90.86	-	-	-	-	-	-
	03/13/08	100.16	8.77	0.00	91.39	204	18	130	109	461	ND < 2
	06/06/08	100.16	9.10	0.00	91.06	378	25	137	93.3	633.3	71
	12/30/08	100.16	8.56	0.00	91.60	305	27	50	84.4	466.4	37
	03/16/09	100.16	9.71	0.00	90.45	246	18	23	53.4	340.4	67
	06/08/09	100.16	8.61	0.08	91.61	-	-	-	-	-	-
	07/20/09	100.16	9.47	1.12	91.53	-	-	-	-	-	-
	09/24/09	100.16	9.06	0.05	91.14	-	-	-	-	-	-

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-2	12/03/09	100.16	9.75	0.70	90.94	-	-	-	-	-	-
con't	03/03/10	100.16	8.30	0.03	91.88	-	-	-	-	-	-
	06/07/10	100.16	9.07	0.71	91.62	-	-	-	-	-	-
	09/01/10	100.16	9.94	0.00	90.22	530	22	202	105	859	155
	12/03/10	100.16	9.37	0.00	90.79	500	52.4	336	232	1,120	120
	03/29/11	100.16	8.74	0.66	91.92	-	-	-	-	-	-
	06/16/11	100.16	9.80	1.50	91.49	-	-	-	-	-	-
	08/08/11	100.16	9.43	0.37	91.01	-	-	-	-	-	-
	09/19/11	100.16	7.81	0.31	92.58	-	-	-	-	-	-
	12/05/11	100.16	9.10	0.68	91.57	-	-	-	-	-	-
	03/16/12	100.16	10.10	0.52	90.45	-	-	-	-	-	-
	06/08/12	100.16	8.75	0.03	91.43	-	-	-	-	-	-
	09/07/12	100.16	8.95	0.04	91.24	-	-	-	-	-	-
	12/18/12	100.16	10.02	0.13	90.24	-	-	-	-	-	-
	03/14/13	100.16	9.65	0.05	90.55	-	-	-	-	-	-
	06/24/13	100.16	8.30	0.35	92.12	-	-	-	-	-	-
	09/06/13	100.16	9.07	0.05	91.13	-	-	-	-	-	-
	10/07/13	100.16	9.34	SHEEN	90.82	-	-	-	-	-	-
	10/23/13	100.16	9.70	0.03	90.48	-	-	-	-	-	-
	11/11/13	100.16	10.05	0.00	90.11	-	-	-	-	-	-
	12/10/13	100.16	10.08	0.00	90.08	258	18.5	204	109	589.5	39.1
MW-3	02/28/05	100.43	9.32	0.00	91.11	120	38.5	167	151	476.5	13.1
	06/06/05	100.43	9.21	0.00	91.22	37.6	22.5	135	113	308.1	3.5
	09/08/05	100.43	9.67	0.00	90.76	86	23.5	47.9	139	296.4	7.8
	12/29/05	100.43	8.50	0.00	91.93	11.3	0.88 J	28.9	15.3	56.38	0.88 J
	03/20/06	100.43	9.98	0.00	90.45	218	12.1	94.6	61.9	386.6	24.7
	06/07/06	100.43	7.51	0.00	92.92	9.9	2.6	27.2	12.1	51.8	ND < 1
	09/14/06	100.43	7.57	0.00	92.86	17.8	ND < 1	20.8	3.9	42.5	ND < 1
	12/07/06	100.43	7.90	0.00	92.53	10.4	ND < 1	15.7	2	28.1	0.51 J
	03/29/07	100.43	8.69	0.00	91.74	0.94 J	ND < 1	5.1	1	7.04	ND < 1
	06/13/07	100.43	7.95	0.00	92.48	3.6	ND < 1	6.8	0.52 J	10.92	ND < 1
	09/19/07	100.43	9.45	0.00	90.98	61.8	1.70	63.2	7.8	134.5	9.5
	12/11/07	100.43	9.75	0.00	90.68	71.3	12.8	101	24.8	209.9	7.4
	03/13/08	100.43	8.56	0.00	91.87	10.8	ND < 1	3	0.72 J	14.52	ND < 1
	06/06/08	100.43	9.46	0.00	90.97	76.1	9.5	46.5	17.9	150	15
	12/30/08	100.43	8.49	0.00	91.94	5.8	0.44 J	0.28 J	ND < 1	6.52	0.53 J
	03/16/09	100.43	10.02	0.00	90.41	113	13.5	6	20.8	153.3	20.2
	06/08/09	100.43	8.33	0.00	92.10	1.7	ND < 1	1.4	ND < 1	3.1	ND < 1
	07/20/09	100.43	9.39	0.00	91.04	92	4	10.6	13.4	120	13.2
	09/24/09	100.43	9.57	0.00	90.86	153	12.1	79.5	97.3	341.9	ND < 1
	12/03/09	100.43	9.60	0.00	90.83	92.7	8.4	90.4	79.1	270.6	3.1
	03/03/10	100.43	8.18	0.00	92.25	0.27 J	ND < 1	1.7	1.6	3.57	ND < 1
	06/07/10	100.43	9.18	0.00	91.25	3	0.50 J	6.8	3.2	13.5	1.2
	09/01/10	100.43	10.66	0.00	89.77	49.3	28.8	164	170	412.1	25.8
	12/03/10	100.43	9.58	0.00	90.85	3.9	2.7	30.9	26.5	64	ND < 1
	03/29/11	100.43	8.25	0.00	92.18	ND < 1	ND < 1	0.36 J	0.33 J	0.69	ND < 1
	06/16/11	100.43	8.90	0.00	91.53	2.8 J	2.1 J	49.5	31.2	85.6	ND < 5
	08/08/11	100.43	9.51	0.00	90.92	23.1	17.4	157	114	311.5	ND < 1
	03/16/12	100.43	9.97	0.00	90.46	25	43	867	386	1,321	ND < 1
	06/08/12	100.43	9.27	0.00	91.16	14.9	27.0	389	208	638.9	ND < 1.00
	09/07/12	100.43	9.41	0.00	91.02	3.67	7.33	110	83.2	204.2	ND < 1.00
	12/18/12	100.43	9.51	0.00	90.92	19.2	31.6	378	278	706.8	ND < 1.00
	03/14/13	100.43	9.47	0.00	90.96	15.7	36.7	319	277	648.4	1.42
	06/24/13	100.43	8.07	0.00	92.36	ND < 1.00	3.05	63.9	68.2	135.15	ND < 1.00
	09/04/13	100.43	9.72	0.00	90.71	7.74	14.1	127	113	261.84	6.86
	09/06/13	100.43	9.76	0.00	90.67	-	-	-	-	-	-
	11/11/13	100.43	10.85	0.00	89.58	-	-	-	-	-	-
	12/10/13	100.43	10.55	0.00	89.88	4.18	18.5	222	211	455.68	ND < 1.00

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-4	02/28/05	100.05	9.02	0.00	91.03	50	2.6	11	25	88.6	ND < 1
	06/06/05	100.05	9.18	0.00	90.87	4.6	ND < 1	0.49 J	ND < 1	5.09	ND < 1
	12/29/05	100.05	8.54	0.00	91.51	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/20/06	100.05	9.16	0.00	90.89	9.1	ND < 1	0.62 J	0.59 J	10.31	ND < 1
	06/07/06	100.05	8.00	0.00	92.05	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/14/06	-	WELL DESTROYED	0.00	-	-	-	-	-	-	-
MW-5	02/28/05	101.15	8.47	0.00	92.68	0.86 J	ND < 1	1.6	8.1	10.56	3.1
	06/06/05	101.15	8.73	0.00	92.42	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/08/05	101.15	-	0.00	-	ND < 1	ND < 1	4.7	7.3	12	ND < 1
	12/29/05	101.15	7.95	0.00	93.20	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/20/06	101.15	8.63	0.00	92.52	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/07/06	101.15	8.12	0.00	93.03	ND < 1	ND < 1	ND < 1	0.65 J	0.65	ND < 1
	12/07/06	101.15	7.97	0.00	93.18	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/29/07	101.15	8.10	0.00	93.05	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/13/07	101.15	7.68	0.00	93.47	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/19/07	101.15	8.96	0.00	92.19	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/11/07	101.15	9.20	0.00	91.95	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/13/08	101.15	8.56	0.00	92.59	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/06/08	101.15	8.85	0.00	92.30	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/30/08	101.15	8.09	0.00	93.06	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/16/09	101.15	9.41	0.00	91.74	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/08/09	101.15	8.40	0.00	92.75	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	07/20/09	101.15	8.63	0.00	92.52	-	-	-	-	-	-
	09/24/09	101.15	9.29	0.00	91.86	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/09	101.15	9.00	0.00	92.15	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/03/10	101.15	7.74	0.00	93.41	ND < 1	ND < 1	ND < 1	0.35 J	0.35	ND < 1
	06/07/10	101.15	8.73	0.00	92.42	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	09/01/10	101.15	9.61	0.00	91.54	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/10	101.15	9.40	0.00	91.75	ND < 1	ND < 1	ND < 1	ND < 1	ND	0.35 J
	03/29/11	101.15	7.91	0.00	93.24	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/16/11	101.15	8.60	0.00	92.55	ND < 1	ND < 1	ND < 1	0.25 J	0.25	ND < 1
	08/08/11	101.15	9.17	0.00	91.98	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.3
	09/19/11	101.15	7.64	0.00	93.51	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/05/11	101.15	8.40	0.00	92.75	ND < 0.22	ND < 0.15	ND < 0.21	ND < 0.17	ND	ND < 0.18
	03/16/12	101.15	9.37	0.00	91.78	ND < 1	ND < 1	ND < 1	ND < 3	ND	ND < 1
	06/08/12	101.15	8.60	0.00	92.55	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	09/07/12	101.15	9.19	0.00	91.96	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	12/18/12	101.15	9.01	0.00	92.14	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	03/14/13	101.15	8.42	0.00	92.73	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	06/24/13	101.15	8.16	0.00	92.99	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
	09/04/13	101.15	9.21	0.00	91.94	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	09/06/13	101.15	9.22	0.00	91.93	-	-	-	-	-	-
	12/10/13	101.15	9.68	0.00	91.47	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	ND < 1.00
MW-6A	02/28/05	101.17	8.29	0.00	92.88	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/06/05	-	WELL DESTROYED	0.00	-	-	-	-	-	-	-
MW-7A	02/28/05	101.24	9.67	0.00	91.57	151	3.8	3	8.8	166.6	2.5
	06/06/05	101.24	9.59	0.00	91.65	13	ND < 1	ND < 1	ND < 1	13	ND < 1
	12/29/05	101.24	9.27	0.00	91.97	105	1	5.2	4	115.2	3.2
	03/20/06	101.24	9.57	0.00	91.67	9.4	ND < 1	ND < 1	0.46 J	9.86	0.51 J
	06/07/06	101.24	8.72	0.00	92.52	328	9.2	20	49	406.2	1.8
	09/14/06	101.24	8.52	0.00	92.72	4.7	ND < 1	0.35 J	ND < 1	5.05	ND < 1
	12/07/06	101.24	8.75	0.00	92.49	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/29/07	101.24	9.48	0.00	91.76	291	6	8.2	17	322.2	ND < 1
	06/13/07	101.24	8.56	0.00	92.68	448	18	28	53	547	2.4
	09/19/07	101.24	9.55	0.00	91.69	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/11/07	101.24	10.27	0.00	90.97	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.3
	03/13/08	101.24	9.56	0.00	91.68	202	3.7	8.4	10	224.1	ND < 2.0
	06/06/08	101.24	9.74	0.00	91.50	4.5	ND < 1	ND < 1	ND < 1	4.5	0.31 J

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-7A	12/30/08	101.24	9.53	0.00	91.71	335	4.6	3.4	21	364	1.9
con't	03/16/09	101.24	10.58	0.00	90.66	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	06/08/09	101.24	9.52	0.00	91.72	30	ND < 1	ND < 1	ND < 1	30	ND < 1
	07/20/09	101.24	8.98	0.00	92.26	1	ND < 1	ND < 1	ND < 1	1	0.48 J
	09/24/09	101.24	10.07	0.00	91.17	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/09	101.24	10.11	0.00	91.13	ND < 1	ND < 1	ND < 1	ND < 1	ND	0.52 J
	03/03/10	101.24	9.41	0.00	91.83	145	2.9	5.5	5.6	159	1.2
	06/07/10	101.24	9.36	0.00	91.88	0.36 J	ND < 1	ND < 1	ND < 1	0.36	ND < 1
	09/01/10	101.24	10.50	0.00	90.74	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	12/03/10	101.24	10.31	0.00	90.93	ND < 1	ND < 1	ND < 1	ND < 1	ND	ND < 1
	03/29/11	101.24	8.87	0.00	92.37	1.7	ND < 1	ND < 1	ND < 1	1.7	ND < 1
	06/16/11	101.24	9.55	0.25	91.88	-	-	-	-	-	-
	08/08/11	101.24	9.99	0.01	91.26	-	-	-	-	-	-
	09/19/11	101.24	INACCESSIBLE	-	-	-	-	-	-	-	-
	03/16/12	101.24	10.48	0.00	90.76	107	1.31	3.55	ND < 3	111.86	1.09
	06/08/12	101.24	9.76	0.00	91.48	143	4.03	25.3	7.23	179.56	1.12
	09/07/12	101.24	10.02	0.00	91.22	14.4	ND < 1.00	ND < 1.00	ND < 3.00	14.4	ND < 1.00
	12/18/12	101.24	10.13	0.00	91.11	12.9	ND < 1.00	ND < 1.00	ND < 3.00	12.9	ND < 1.00
	03/14/13	101.24	9.85	0.00	91.39	88.8	1.84	12.4	8.73	111.77	ND < 1.00
	06/24/13	101.24	8.76	0.00	92.48	45.8	ND < 1.00	3.81	ND < 3.00	49.61	ND < 1.00
	09/04/13	101.24	9.96	0.05	91.32	-	-	-	-	-	-
	09/06/13	101.24	10.05	0.06	91.24	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND	ND < 1.00
	12/10/13	101.24	CNL	-	-	-	-	-	-	-	-
MW-8A	02/28/05	100.59	10.02	0.00	90.57	1,430	369	1,020	3,180	5,999	4,720
	06/06/05	100.59	9.48	0.00	91.11	1,660	391	1,150	3,960	7,161	3,980
	09/08/05	100.59	10.02	0.00	90.57	2,030	447	1,200	3,880	7,557	3,640
	12/29/05	100.59	9.18	0.00	91.41	434	49.3	216	675	1,374	250
	03/20/06	100.59	9.87	0.00	90.72	2,060	467	1,220	4,040	7,787	4,730
	09/14/06	100.59	8.74	0.00	91.85	2,170	510	1,380	4,320	8,380	2,370
	12/07/06	100.59	8.62	0.00	91.97	1,660	430	1,350	4,570	8,010	1,980
	03/29/07	100.59	9.52	0.00	91.07	1,420	341	908	2,370	5,039	2,960
	06/13/07	100.59	8.55	0.00	92.04	444	155	694	1,770	3,063	380
	09/19/07	100.59	9.36	0.00	91.23	1,090	267	915	2,570	4,842	1,160
	12/11/07	100.59	10.13	0.00	90.46	1,530	305	1,090	3,420	6,345	1,570
	03/13/08	100.59	9.69	0.00	90.90	1,580	315	1,140	3,430	6,465	1,850
	06/06/08	100.59	9.35	0.00	91.24	1,230	280	1,070	2,610	5,190	806
	12/30/08	100.59	9.17	0.00	91.42	82.5	21.3	131	237	471.8	22.6
	06/08/09	100.59	9.18	0.00	91.41	292	64.9	348	616	1,321	129
	07/20/09	100.59	9.10	0.00	91.49	292	72.8	324	525	1,214	149
	09/24/09	100.59	10.79	0.00	89.80	984	223	909	2,320	4,436	542
	12/03/09	100.59	9.75	0.00	90.84	1,030	235	1,060	2,240	4,565	452
	03/03/10	100.59	9.25	0.00	91.34	691	177	762	2,070	3,700	185
	06/07/10	100.59	9.17	0.00	91.42	1,020	213	869	2,060	4,162	766
	09/01/10	100.59	10.18	0.00	90.41	1,520	291	1,070	3,030	5,911	939
	12/03/10	100.59	10.00	0.00	90.59	942	253	745	1,900	3,840	555
	03/29/11	100.59	9.46	0.00	91.13	1,070	227	831	1,860	3,988	418
	09/19/11	100.59	8.26	0.00	92.33	779	157	533	1,060	2,529	298
	12/05/11	100.59	9.20	0.00	91.39	1,540	222	682	1,530	3,974	637
	03/16/12	100.59	10.07	0.00	90.52	2,220	386	1,410	5,250	9,266	1,100
	06/08/12	100.59	9.84	0.00	90.75	808	111	434	1,200	2,553	983
	09/07/12	100.59	10.00	0.00	90.59	985	154	341	953	2,433	376
	12/18/12	100.59	10.78	0.00	89.81	1,300	231	496	2,200	4,227	336
	03/14/13	100.59	11.08	0.00	89.51	1,160	188	551	2,360	4,259	330
	06/24/13	100.59	9.31	0.00	91.28	991	155	482	1,930	3,558	157
	09/06/13	100.59	10.82	0.00	89.77	1,670	306	1,250	3,790	7,016	337
	12/10/13	100.59	11.44	0.00	89.15	1,370	226	742	3,210	5,548	333
MW-9	02/28/05	100.10	9.45	0.00	90.65	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.8
	06/06/05	100.10	9.38	0.00	90.72	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.1

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-9	09/08/05	100.10	10.01	0.00	90.09	ND < 1	ND < 1	0.73 J	2	2.73	7.3
con't	12/29/05	100.10	8.88	0.00	91.22	ND < 1	ND < 1	ND < 1	ND < 1	ND	16.7
	03/20/06	100.10	9.65	0.00	90.45	ND < 1	ND < 1	ND < 1	ND < 1	ND	9.8
	09/14/06	100.10	8.93	0.00	91.17	0.93 J	ND < 1	0.43 J	1.1	2.46	20.8
	12/07/06	100.10	8.72	0.00	91.38	0.88 J	0.72 J	ND < 1	3.6	5.2	45
	03/29/07	100.10	9.09	0.00	91.01	ND < 1	ND < 1	ND < 1	ND < 1	ND	46.8
	06/13/07	100.10	8.64	0.00	91.46	4.9	1.7	ND < 1	6.4	13	60
	09/19/07	100.10	9.39	0.00	90.71	0.35 J	ND < 1	ND < 1	0.97 J	1.32	19.2
	12/11/07	100.10	9.80	0.00	90.30	ND < 1	ND < 1	ND < 1	ND < 1	ND	15.7
	03/13/08	100.10	8.98	0.00	91.12	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.5
	06/06/08	100.10	9.19	0.00	90.91	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.2
	12/30/08	100.10	8.75	0.00	91.35	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.6
	07/20/09	100.10	9.10	0.00	91.00	-	-	-	-	-	-
	09/24/09	100.10	9.71	0.00	90.39	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.6
	12/03/09	100.10	9.62	0.00	90.48	ND < 1	ND < 1	ND < 1	ND < 1	ND	4.6
	03/03/10	100.10	8.47	0.00	91.63	ND < 1	ND < 1	ND < 1	ND < 1	ND	0.32 J
	06/07/10	100.10	9.24	0.00	90.86	ND < 1	ND < 1	ND < 1	ND < 1	ND	2.9
	09/01/10	100.10	10.11	0.00	89.99	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.7
	12/03/10	100.10	9.90	0.00	90.20	ND < 1	ND < 1	ND < 1	ND < 1	ND	6.7
	03/29/11	100.10	9.04	0.00	91.06	ND < 1	ND < 1	ND < 1	ND < 1	ND	1.5
	12/05/11	100.10	9.20	0.00	90.90	ND < 0.22	ND < 0.15	ND < 0.21	0.17	0.17	10.1
	03/16/12	100.10	10.33	0.00	89.77	ND < 1	ND < 1	ND < 1	ND < 3	ND	9.21
	06/08/12	100.10	9.44	0.00	90.66	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	12.6
	09/07/12	100.10	9.79	0.00	90.31	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	11.0
	12/18/12	100.10	CNL	-	-	-	-	-	-	-	-
	03/14/13	100.10	CNL	-	-	-	-	-	-	-	-
	06/24/13	100.10	CNL	-	-	-	-	-	-	-	-
	09/06/13	100.10	CNL	-	-	-	-	-	-	-	-
	12/10/13	100.10	CNL	-	-	-	-	-	-	-	-
MW-10	02/28/05	100.50	9.94	0.00	90.56	5,040	763	1,520	7,160	14,483	10,300
	06/06/05	100.50	9.03	0.00	91.47	823	97.6	298	1,390	2,609	1,560
	09/08/05	100.50	9.90	0.00	90.60	2,780	331	1,000	3,840	7,951	5,030
	12/29/05	100.50	8.90	0.00	91.60	754	192	942	1,900	3,788	833
	03/20/06	100.50	9.54	0.00	90.96	6,220	803	1,640	6,970	15,633	10,500
	06/07/06	100.50	9.01	0.00	91.49	4,580	459	1,150	4,290	10,479	6,210
	09/14/06	100.50	8.58	0.00	91.92	4,900	625	1,520	5,930	12,975	6,740
	12/07/06	100.50	8.52	0.00	91.98	3,070	504	2,030	7,360	12,964	1,410
	03/29/07	100.50	9.40	0.00	91.10	7,050	1,180	3,550	11,900	23,680	6,820
	06/13/07	100.50	8.42	0.00	92.08	1,450	231	909	2,980	5,570	466
	09/19/07	100.50	9.22	0.00	91.28	3,380	445	1,400	4,500	9,725	1,310
	12/11/07	100.50	11.03	0.00	89.47	3,030	411	1,360	4,010	8,811	1,750
	03/13/08	100.50	9.56	0.00	90.94	4,270	530	1,520	5,160	11,480	2,470
	06/06/08	100.50	9.25	0.00	91.25	3,080	414	1,510	4,450	9,454	1,260
	12/30/08	100.50	9.05	0.00	91.45	903	115	649	1,500	3,167	213
	06/08/09	100.50	8.97	0.00	91.53	1,110	143	658	1,440	3,351	166
	07/20/09	100.50	8.98	0.00	91.52	1,050	157	593	1,250	3,050	97.1
	09/24/09	100.50	9.59	0.00	90.91	2,390	374	1,490	3,210	7,464	315
	12/03/09	100.50	9.55	0.00	90.95	3,380	673	3,900	3,990	11,943	698
	03/03/10	100.50	9.25	0.00	91.25	3,450	440	1,400	3,440	8,730	1,810
	06/07/10	100.50	9.02	0.00	91.48	3,210	403	1,260	2,760	7,633	1,380
	09/01/10	100.50	10.00	0.00	90.50	4,870	485	1,830	4,040	11,225	1,580
	12/03/10	100.50	9.80	0.00	90.70	3,950	496	1,510	3,180	9,136	ND < 10
	03/29/11	100.50	9.35	0.00	91.15	5,450	594	1,550	3,700	11,294	1,640
	06/16/11	100.50	8.80	0.00	91.70	5,410	555	1,450	3,580	10,995	1,160
	08/08/11	100.50	9.72	0.00	90.78	6,180	645	1,450	3,460	11,735	1,030
	09/19/11	100.50	8.19	0.00	92.31	1,810	162	497	957	3,426	191
	12/05/11	100.50	9.00	0.00	91.50	3,790	443	1,910	3,860	10,003	610
	03/16/12	100.50	10.51	0.00	89.99	5,350	744	2,220	5,690	14,004	1,210

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-10	06/08/12	100.50	9.47	0.00	91.03	3,780	343	859	1,720	6,702	860
con't	09/07/12	100.50	10.04	0.00	90.46	3,930	334	738	2,290	7,292	777
	12/18/12	100.50	10.83	0.00	89.67	5,460	623	1,170	3,340	10,593	708
	03/14/13	100.50	10.99	0.00	89.51	5,030	469	1,280	3,010	9,789	712
	06/24/13	100.50	8.51	0.00	91.99	2,680	330	927	2,900	6,837	137
	09/06/13	100.50	10.66	0.00	89.84	5,290	524	1,360	3,150	10,324	383
	12/10/13	100.50	11.36	0.00	89.14	6,080	560	1,410	4,520	12,570	464
MW-11	02/28/05	99.62	8.14	0.00	91.48	619	576	1,050	4,270	6,515	77
	06/06/05	99.62	8.07	0.00	91.55	616	410	1,070	5,050	7,146	71
	09/08/05	99.62	8.81	0.03	90.83	-	-	-	-	-	-
	12/29/05	99.62	11.63	0.00	87.99	697	249	1,170	3,630	5,746	57
	03/20/06	99.62	8.13	0.00	91.49	625	294	1,070	4,130	6,119	39
	06/07/06	99.62	7.45	0.00	92.17	-	-	-	-	-	-
	09/14/06	99.62	7.13	0.02	92.51	-	-	-	-	-	-
	12/07/06	99.62	7.30	0.02	92.34	-	-	-	-	-	-
	03/29/07	99.62	7.94	0.00	91.68	531	199	1,030	1,580	3,340	ND < 10
	06/13/07	99.62	7.18	0.00	92.44	438	125	738	935	2,236	32
	09/19/07	99.62	8.11	0.00	91.51	718	231	1,050	1,800	3,799	36
	12/11/07	99.62	8.70	0.02	90.94	-	-	-	-	-	-
	03/13/08	99.62	8.20	0.00	91.42	336	153	860	1,530	2,879	ND < 5
	06/06/08	99.62	8.17	0.00	91.45	617	194	954	1,410	3,175	37
	12/30/08	99.62	7.91	0.00	91.71	473	185	990	1,730	3,378	23.9
	03/16/09	99.62	9.06	0.00	90.56	423	192	770	1,610	2,995	20.9
	06/08/09	99.62	7.87	0.00	91.75	575	209	1,110	2,330	4,224	27.4
	07/20/09	99.62	7.93	0.08	91.75	-	-	-	-	-	-
	09/24/09	99.62	8.59	0.05	91.07	-	-	-	-	-	-
	12/03/09	99.62	8.51	0.00	91.11	797	142	1,280	1,020	3,239	46.9
	03/03/10	99.62	7.66	0.00	91.96	518	110	1,060	1,010	2,698	23.4
	06/07/10	99.62	7.94	0.00	91.68	382	33.1	901	498	1,814	23.1
	09/01/10	99.62	8.98	0.00	90.64	510	131	1,300	1,620	3,561	ND < 100
	12/03/10	99.62	8.71	0.00	90.91	513	206	911	1,560	3,190	11.3
	03/29/11	99.62	7.45	0.00	92.17	68.3	7.60	199	234	508.9	3.20
	06/16/11	99.62	7.71	0.00	91.91	148	23.3	293	315	779.3	2.80
	08/08/11	99.62	8.54	0.00	91.08	308	48.5	380	385	1,122	7.90
	09/19/11	99.62	6.98	0.00	92.64	57	12.3	162	171	402.3	1.40
	12/05/11	99.62	7.81	0.00	91.81	144	52	304	455	955	4
	03/16/12	99.62	8.98	0.00	90.64	637	149	794	1,580	3,160	12
	06/08/12	99.62	8.14	0.00	91.48	492	161	611	1,090	2,354	9.70
	09/07/12	99.62	8.18	0.00	91.44	604	164	699	1,240	2,707	7.61
	12/18/12	99.62	8.61	0.00	91.01	587	184	702	1,320	2,793	7.11
	03/14/13	99.62	8.40	0.00	91.22	487	150	608	934	2,179	7.78
	06/24/13	99.62	7.27	0.00	92.35	403	113	495	447	1,458	3.98
	09/04/13	99.62	8.50	0.00	91.12	513	147	947	1,230	2,837	3.54
	09/06/13	99.62	8.56	0.00	91.06	-	-	-	-	-	-
	10/07/13	99.62	8.76	SHEEN	90.86	-	-	-	-	-	-
	10/23/13	99.62	9.03	0.00	90.59	-	-	-	-	-	-
	11/11/13	99.62	9.42	0.00	90.20	-	-	-	-	-	-
	12/10/13	99.62	9.92	0.00	89.70	490	107	561	869	2,027	2.93
MW-12	02/28/05	100.85	9.38	0.00	91.47	127	6.6	50	57	240.6	24.8
	06/06/05	100.85	9.17	0.00	91.68	250	8.2	29.2	51.4	338.8	129
	03/20/06	100.85	9.17	0.00	91.68	229	9	35.5	50.2	323.7	26.6
	06/07/06	100.85	8.68	0.00	92.17	470	17.4	81.1	86.8	655.3	96.7
	09/14/06	100.85	8.13	0.00	92.72	476	14	42.9	63.2	596.1	55
	12/07/06	100.85	8.37	0.00	92.48	225	7.3	5.1	22.5	259.9	29.4
	03/29/07	100.85	9.16	0.00	91.69	193	3.7	4	12.5	213.2	44.3
	06/13/07	100.85	8.28	0.00	92.57	274	8.3	5.8	24.7	312.8	86.5
	09/19/07	100.85	9.16	0.00	91.69	285	6.2	4.2	20.5	315.9	33
	12/11/07	100.85	9.90	0.00	90.95	249	5	4.2	17.6	275.8	31.6

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-12	03/13/08	100.85	9.21	0.00	91.64	172	3.6	11	14.4	201	ND < 1
con't	06/06/08	100.85	9.33	0.00	91.52	134	4.4	8.5	15.8	162.7	20.6
	12/30/08	100.85	9.22	0.00	91.63	603	12.3	115	53.9	784.2	41
	03/16/09	100.85	10.21	0.00	90.64	144	3.2	32.2	17.7	197.1	12.9
	06/08/09	100.85	9.16	0.00	91.69	474	8.6	69.2	33.5	585.3	147
	07/20/09	100.85	9.38	0.00	91.47	14.5	0.56 J	15.2	2.4	32.66	41.9
	09/24/09	100.85	9.71	0.00	91.14	54.8	3.1	37.8	21.4	117.1	113
	12/03/09	100.85	9.75	0.00	91.10	120	3.9	52.7	28.5	205.1	88.4
	03/03/10	100.85	9.15	0.00	91.70	148	3.6	23.1	16.1	190.8	41.4
	06/07/10	100.85	8.97	0.00	91.88	22.9	1.1	8.4	7.2	39.6	8.6
	09/01/10	100.85	10.22	0.00	90.63	111	2.4	10.7	11.6	135.7	23
	12/03/10	100.85	10.00	0.00	90.85	87	1.6	7.5	7	103.1	20.3
	03/29/11	100.85	8.53	0.00	92.32	2.1	ND < 1	0.34 J	0.32 J	2.76	6.7
	06/16/11	100.85	8.90	0.00	91.95	3.5	0.36 J	0.72 J	1.3	5.88	8.9
	08/08/11	100.85	9.70	0.00	91.15	24	1.4	3.5	6.6	35.5	32.5
	09/19/11	100.85	8.39	0.00	92.46	2.8	0.35 J	2.4	3.2	8.75	ND < 1
	03/16/12	100.85	10.17	0.00	90.68	27	1.05	8.41	4.22	40.68	24
	06/08/12	100.85	9.42	0.00	91.43	30.2	ND < 1.00	4.87	ND < 3.00	35.07	24.3
	09/07/12	100.85	9.66	0.00	91.19	38.2	ND < 1.00	4.92	ND < 3.00	43.12	ND < 1.00
	12/18/12	100.85	9.98	0.00	90.87	50.5	1.02	5.07	ND < 3.00	56.59	13.4
	03/14/13	100.85	9.58	0.00	91.27	35.3	ND < 1.00	5.36	ND < 3.00	40.66	13.5
	06/24/13	100.85	8.36	0.00	92.49	2.76	ND < 1.00	ND < 1.00	ND < 3.00	2.76	2.48
	09/04/13	100.85	9.58	0.00	91.27	15.5	ND < 1.00	3.19	ND < 2.00	18.69	7.88
	09/06/13	100.85	9.65	0.00	91.20	-	-	-	-	-	-
	10/07/13	100.85	9.98	SHEEN	90.87	-	-	-	-	-	-
	12/10/13	100.85	10.67	0.00	90.18	34.4	ND < 1.00	1.45	ND < 3.00	35.85	12.1
MW-13	02/28/05	100.04	8.83	2.17	92.84	-	-	-	-	-	-
	06/06/05	100.04	8.54	0.01	91.51	-	-	-	-	-	-
	09/08/05	100.04	9.37	0.21	90.83	-	-	-	-	-	-
	12/29/05	100.04	8.65	0.01	91.40	-	-	-	-	-	-
	03/20/06	100.04	6.67	0.01	93.38	-	-	-	-	-	-
	06/07/06	100.04	7.61	0.00	92.43	-	-	-	-	-	-
	09/14/06	100.04	7.34	0.02	92.72	-	-	-	-	-	-
	12/07/06	100.04	7.71	0.15	92.44	-	-	-	-	-	-
	03/29/07	100.04	8.53	0.00	91.51	76.5	ND < 5	ND < 5	ND < 5	76.5	9.3
	06/13/07	100.04	7.55	0.00	92.49	56.1	2.6	172	56.9	287.6	11
	09/19/07	100.04	8.53	0.02	91.53	-	-	-	-	-	-
	12/11/07	100.04	9.30	0.02	90.76	-	-	-	-	-	-
	03/13/08	100.04	8.58	0.00	91.46	179	6.1	303	74.7	562.8	13.3
	06/06/08	100.04	8.70	0.00	91.34	245	10.2	354	95.8	705	20.8
	12/30/08	100.04	8.37	0.00	91.67	226	20.3	394	136	776.3	12.3
	03/16/09	100.04	9.76	0.00	90.28	270	22.8	423	135	850.8	11.9
	06/08/09	100.04	8.24	0.00	91.80	68.6	6.2	129	36.8	240.6	11.7
	07/20/09	100.04	8.31	0.00	91.73	39	7.9	300	88.6	435.5	15.9
	09/24/09	100.04	9.01	0.00	91.03	115	4.1	295	44.1	458.2	10.8
	12/03/09	100.04	8.96	0.00	91.08	219	7	295	53	574	13.6
	03/03/10	100.04	7.90	0.00	92.14	31.8	2.3	109	18.5	161.6	4.8
	06/07/10	100.04	8.33	0.00	91.71	21.2	1.7	149	19.9	191.8	18.6
	09/01/10	100.04	9.44	0.00	90.60	541	120	884	1,490	3,035	16.9
	12/03/10	100.04	9.13	0.00	90.91	321	114	685	1,240	2,360	ND < 5
	03/29/11	100.04	7.90	0.00	92.14	6	ND < 1	8.7	5.2	19.9	3
	06/16/11	100.04	5.30	0.00	94.74	31.5	2	62	34.4	129.9	10.5
	08/08/11	100.04	9.04	0.00	91.00	212	40.6	260	284	796.6	3.1
	09/19/11	100.04	7.36	0.00	92.68	12.3	2	174	57.5	245.8	1.3
	12/05/11	100.04	8.25	0.00	91.79	20	1.8	110	44	175.8	3.4
	03/16/12	100.04	9.44	0.00	90.60	194	56	505	294	1,049	1.71
	06/08/12	100.04	8.62	0.00	91.42	135	38.6	331	235	739.6	2.74
	09/07/12	100.04	8.92	0.00	91.12	178	39.2	421	237	875.2	ND < 1.00

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-13	12/18/12	100.04	9.09	0.00	90.95	308	84.5	663	452	1,508	2.82
con't	03/14/13	100.04	8.92	0.00	91.12	586	114	590	948	2,238	6.10
	06/24/13	100.04	7.74	0.00	92.30	117	38.6	544	399	1,099	2.43
	09/04/13	100.04	8.94	0.03	91.12	-	-	-	-	-	-
	09/06/13	100.04	9.06	0.17	91.11	-	-	-	-	-	-
	09/26/13	100.04	9.16	0.01	90.89	395	77.9	515	458	1,446	3.87
	10/07/13	100.04	9.21	SHEEN	90.83	-	-	-	-	-	-
	10/23/13	100.04	9.45	0.00	90.59	-	-	-	-	-	-
	11/11/13	100.04	9.86	0.00	90.18	-	-	-	-	-	-
	12/10/13	100.04	10.02	0.00	90.02	767	126	744	1,240	2,877	13.7
MW-14	02/28/05	100.04	12.87	0.00	87.17	4.2	0.61 J	1.7	6.7	13.21	2.5
	06/06/05	100.04	13.02	0.00	87.02	12.6	1	2.4	9.3	25.3	ND < 1
	03/20/06	100.04	13.03	0.50	87.39	-	-	-	-	-	-
	06/07/06	100.04	8.19	0.07	91.90	-	-	-	-	-	-
	12/07/06	100.04	13.30	4.75	90.30	-	-	-	-	-	-
	03/29/07	100.04	10.52	0.00	89.52	118	4.8	1.4	11.3	135.5	ND < 1
	06/13/07	100.04	8.38	0.00	91.66	125	5.6	5.4	41.1	177.1	ND < 1
	09/19/07	100.04	10.08	0.00	89.96	121	5	4.1	31.3	161.4	ND < 1
	12/11/07	100.04	10.95	0.05	89.13	-	-	-	-	-	-
	03/13/08	100.04	9.73	0.00	90.31	66.7	2.7	0.76 J	4.6	74.76	ND < 1
	06/06/08	100.04	10.05	0.00	89.99	95.5	3.6	1.3	5.8	106.2	ND < 1
	12/30/08	100.04	9.59	0.00	90.45	85.3	2.5	0.51 J	2.1	90.41	ND < 1
	03/16/09	100.04	10.44	0.00	89.60	101	4.1	0.77 J	4.3	110.17	ND < 1
	06/08/09	100.04	9.46	0.00	90.58	54.8	2.3	1.2	4.2	62.5	ND < 1
	07/20/09	100.04	9.30	0.00	90.74	51.6	1.3	0.58 J	2.3	55.78	ND < 1
	09/24/09	100.04	10.00	0.00	90.04	102	3.8	0.90 J	5.9	112.6	ND < 1
	12/03/09	100.04	9.81	0.00	90.23	147	4.3	1.1	4.6	157	ND < 1
	03/03/10	100.04	8.90	0.00	91.14	13.5	ND < 1	ND < 1	ND < 1	13.5	ND < 1
	06/07/10	100.04	9.31	0.00	90.73	50.3	0.95 J	0.32 J	1.2	52.77	ND < 1
	09/01/10	100.04	10.36	0.00	89.68	139	3.4	1.2	3.7	147.3	ND < 1
	12/03/10	100.04	10.11	0.00	89.93	114	4	0.86 J	3.2	122.06	ND < 1
	03/29/11	100.04	8.60	0.00	91.44	12.7	ND < 1	ND < 1	ND < 1	12.7	ND < 1
	06/16/11	100.04	9.20	0.00	90.84	41.4	0.55 J	0.27 J	0.53 J	42.75	ND < 1
	08/08/11	100.04	9.87	0.00	90.17	84.1	0.77 J	ND < 1	ND < 1	84.87	ND < 1
	09/19/11	100.04	8.22	0.00	91.82	3.8	ND < 1	ND < 1	ND < 1	3.8	ND < 1
	12/05/11	100.04	9.19	0.00	90.85	64	0.39	0.22	0.60	65.21	ND < 0.18
	03/16/12	100.04	10.36	0.00	89.68	91	1.28	ND < 1	ND < 3	92.28	ND < 1
	06/08/12	100.04	9.62	0.00	90.42	74.8	ND < 1.00	ND < 1.00	ND < 3.00	74.8	ND < 1.00
	09/07/12	100.04	9.82	0.00	90.22	117	1.96	ND < 1.00	ND < 3.00	118.96	ND < 1.00
	12/18/12	100.04	9.84	0.00	90.20	70.8	1.60	ND < 1.00	ND < 3.00	72.4	ND < 1.00
	03/14/13	100.04	10.43	0.00	89.61	20.2	ND < 1.00	ND < 1.00	ND < 3.00	20.2	ND < 1.00
	06/24/13	100.04	8.50	0.00	91.54	7.68	ND < 1.00	ND < 1.00	ND < 3.00	7.68	ND < 1.00
	09/04/13	100.04	9.77	0.00	90.27	44.2	ND < 1.00	ND < 1.00	ND < 2.00	44.2	ND < 1.00
	09/06/13	100.04	9.85	0.00	90.19	-	-	-	-	-	-
	12/10/13	100.04	10.56	0.00	89.48	51.9	ND < 1.00	ND < 1.00	ND < 3.00	51.9	ND < 1.00
MW-15	09/27/06	100.47	10.72	0.00	89.75	616	21.1	21.7	64.4	723.2	425
	12/07/06	100.47	9.29	0.00	91.18	522	16.6	8.2	54.5	601.3	114
	03/29/07	100.47	9.81	0.00	90.66	389	14	5.9	30.7	439.6	59.5
	06/13/07	100.47	8.99	0.00	91.48	924	26.7	6	56.8	1,014	191
	09/19/07	100.47	9.72	0.00	90.75	747	16.6	3.5	34.1	801.2	104
	12/11/07	100.47	10.29	0.00	90.18	800	15.1	2.8 J	40	857.9	119
	03/13/08	100.47	9.85	0.00	90.62	662	6.4	2.9 J	15.2	686.5	83.4
	06/06/08	100.47	9.63	0.00	90.84	509	5.6	1.2	12.7	528.5	81.1
	12/30/08	100.47	9.50	0.00	90.97	164	1.9	0.58 J	4.6	171.08	16.8
	03/16/09	100.47	10.69	0.00	89.78	540	5.8	1.2	9.5	556.5	57.2
	06/08/09	100.47	9.45	0.00	91.02	141	ND < 1	ND < 1	1	142	14.8
	07/20/09	100.47	9.33	0.00	91.14	80.7	1.2	0.93 J	3.7	86.53	19.1
	09/24/09	100.47	9.91	0.00	90.56	162	3.9	7.3	8.6	181.8	74.5

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-15	12/03/09	100.47	9.98	0.00	90.49	432	8.6	7.3	17.4	465.3	52.2
con't	03/03/10	100.47	9.41	0.00	91.06	606	6.4	8.1	18.5	639	99.2
	06/07/10	100.47	9.42	0.00	91.05	200	3.6	6.2	6.3	216.1	24.7
	09/01/10	100.47	10.06	0.00	90.41	194	3.6	2.8	5.3	205.7	101
	12/03/10	100.47	12.20	0.00	88.27	405	7.6	6.9	13.7	433.2	93.3
	03/29/11	100.47	9.52	0.00	90.95	119	0.86 J	ND < 1	0.89 J	120.75	26.8
	06/16/11	100.47	9.34	0.00	91.13	8	ND < 1	ND < 1	ND < 1	8	3.4
	08/08/11	100.47	9.93	0.00	90.54	81.1	2.3	0.85 J	4.2	88.45	45.1
	09/19/11	100.47	8.49	0.00	91.98	43.2	1.5	0.94 J	4.6	50.24	25.8
	12/05/11	100.47	9.40	0.00	91.07	5	ND < 0.15	ND < 0.21	0.51	5.51	5.4
	03/16/12	100.47	10.57	0.00	89.90	31	ND < 1	ND < 1	ND < 3	31	58
	06/08/12	100.47	9.67	0.00	90.80	3.89	ND < 1.00	ND < 1.00	ND < 3.00	3.89	8.11
	09/07/12	100.47	9.83	0.00	90.64	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	10.2
	12/18/12	100.47	9.99	0.00	90.48	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	11.3
	03/14/13	100.47	10.23	0.00	90.24	6.60	ND < 1.00	ND < 1.00	ND < 3.00	6.6	30.5
	06/24/13	100.47	8.98	0.00	91.49	2.91	ND < 1.00	ND < 1.00	ND < 3.00	2.91	2.21
	09/06/13	100.47	10.09	0.00	90.38	1.77	ND < 1.00	ND < 1.00	ND < 2.00	1.77	13.0
	12/10/13	100.47	10.31	0.00	90.16	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND	18.0
MW-16	09/27/06	100.42	11.90	0.00	88.52	1,600	159	1,220	2,520	5,499	2.3 J
	12/07/06	100.42	18.97	8.72	87.99	-	-	-	-	-	-
	03/29/07	100.42	11.36	0.00	89.06	2,320	87.1	430	1,110	3,947	ND < 20
	06/13/07	100.42	10.82	0.14	89.71	-	-	-	-	-	-
	09/19/07	100.42	10.98	0.22	89.61	-	-	-	-	-	-
	12/11/07	100.42	9.80	0.03	90.64	-	-	-	-	-	-
	03/13/08	100.42	10.89	0.00	89.53	1,200	34.1	146	303	1,683	ND < 10
	06/06/08	100.42	10.06	0.00	90.36	1,350	49.6	225	394	2,019	16.1
	12/30/08	100.42	9.66	0.00	90.76	958	59.8	393	662	2,073	7.7
	03/16/09	100.42	10.70	0.00	89.72	1,320	44	141	222	1,727	3.7
	06/08/09	100.42	9.64	0.00	90.78	2,830	158	667	1,010	4,665	ND < 20
	07/20/09	100.42	9.56	0.09	90.93	-	-	-	-	-	-
	09/24/09	100.42	9.96	0.16	90.58	-	-	-	-	-	-
	12/03/09	100.42	9.85	0.09	90.64	-	-	-	-	-	-
	03/03/10	100.42	8.90	0.00	91.52	940	104	1,070	2,020	4,134	3.5 J
	06/07/10	100.42	9.28	0.28	91.35	-	-	-	-	-	-
	09/01/10	100.42	10.21	0.00	90.21	2,590	131	492	828	4,041	ND < 20
	12/03/10	100.42	9.67	0.01	90.76	-	-	-	-	-	-
	03/29/11	100.42	8.45	0.00	91.97	312	26.3	284	319	941.3	ND < 2.5
	06/16/11	100.42	8.75	0.00	91.67	1,490	76.6	433	634	2,634	ND < 10
	08/08/11	100.42	9.44	0.03	91.00	-	-	-	-	-	-
	09/19/11	100.42	7.89	0.00	92.53	68.3	4.1	59.9	77.1	209.4	ND < 1
	12/05/11	100.42	8.77	0.00	91.65	655	26	237	246	1,164	ND < 0.37
	03/16/12	100.42	9.96	0.00	90.46	1,400	59	157	342	1,958	ND < 1
	06/08/12	100.42	9.22	0.00	91.20	1,310	49.2	157	229	1,745	ND < 1.00
	09/07/12	100.42	9.36	0.00	91.06	2,060	81.1	303	380	2,824	ND < 1.00
	12/18/12	100.42	9.56	0.00	90.86	1,130	63.4	423	329	1,945	ND < 1.00
	03/14/13	100.42	9.39	0.00	91.03	1,140	59.3	159	261	1,619	ND < 1.00
	06/24/13	100.42	8.23	0.00	92.19	509	46.1	177	303	1,035	ND < 1.00
	09/04/13	100.42	9.32	0.04	91.13	-	-	-	-	-	-
	09/06/13	100.42	9.57	0.21	91.01	-	-	-	-	-	-
	09/26/13	100.42	10.83	0.23	89.76	-	-	-	-	-	-
	10/23/13	100.42	10.08	0.25	90.53	-	-	-	-	-	-
	11/11/13	100.42	10.34	0.00	90.08	-	-	-	-	-	-
	12/10/13	100.42	10.75	0.00	89.67	1,060	57.8	99.1	200	1,417	1.30
MW-17	09/28/06	100.05	10.59	0.00	89.46	4.8	64.2	378	1,420	1,867	202
	12/07/06	100.05	10.90	0.00	89.15	19.9	97.6	335	1,090	1,543	29.8
	03/29/07	100.05	10.18	0.00	89.87	15.4	145	432	1,300	1,892	19.4
	06/13/07	100.05	9.55	0.00	90.50	11.1	76.9	228	695	1,011	21.3
	09/19/07	100.05	9.71	0.00	90.34	11.4	69.3	252	665	997.7	13.6

TABLE 1

HISTORICAL GROUNDWATER MONITORING DATA

ExxonMobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-17	12/11/07	100.05	10.17	0.00	89.88	4.8	32.9	148	386	571.7	4.3
con't	03/13/08	100.05	9.17	0.00	90.88	20.4	143	695	2,160	3,018	8.2
	06/06/08	100.05	9.03	0.00	91.02	2.6	14.2	63.7	178	258.5	3.4
	12/30/08	100.05	8.51	0.00	91.54	18.1	60.3	421	418	917.4	2.3
	03/16/09	100.05	9.42	0.00	90.63	3.8	20.4	134	184	342.2	2.1
	06/08/09	100.05	8.19	0.00	91.86	244	80.1	773	439	1,536	7.7
	07/20/09	100.05	8.23	0.00	91.82	27.4	145	726	1,100	1,998	1.7
	09/24/09	100.05	8.93	0.00	91.12	10.6	47.7	324	369	751.3	ND < 1
	12/03/09	100.05	8.91	0.00	91.14	32.7	161	854	1,170	2,218	1.7 J
	03/03/10	100.05	8.02	0.00	92.03	7.5	37.7	225	289	559.2	1.4 J
	06/07/10	100.05	8.33	0.00	91.72	7.6	35	259	274	575.6	0.83 J
	09/01/10	100.05	9.01	0.00	91.04	16.3	91.3	716	675	1,499	ND < 2
	12/03/10	100.05	8.80	0.00	91.25	19.8	103	757	881	1,761	ND < 1
	03/29/11	100.05	7.83	0.00	92.22	6.3	14.7	166	90.9	277.9	1.2 J
	06/16/11	100.05	7.96	0.06	92.14	-	-	-	-	-	-
	08/08/11	100.05	8.62	0.04	91.46	-	-	-	-	-	-
	09/19/11	100.05	7.12	0.01	92.94	-	-	-	-	-	-
	12/05/11	100.05	7.86	0.00	92.19	9.3	43	230	209	491.3	1
	03/16/12	100.05	9.40	0.07	90.70	-	-	-	-	-	-
	06/08/12	100.05	8.49	0.00	91.56	23.7	78.4	402	239	743.1	ND < 1.00
	09/07/12	100.05	8.49	0.00	91.56	24.6	89.0	279	304	696.6	ND < 1.00
	12/18/12	100.05	8.62	0.00	91.43	18.8	72.5	275	332	698.3	ND < 1.00
	03/14/13	100.05	8.37	0.00	91.68	3.85	21.2	80.2	69.1	174.35	1.40
	06/24/13	100.05	7.41	0.00	92.64	6.01	31.1	112	101	250.11	1.02
	09/04/13	100.05	8.75	0.05	91.34	-	-	-	-	-	-
	09/06/13	100.05	9.74	0.04	90.34	-	-	-	-	-	-
	09/26/13	100.05	7.94	0.04	92.14	4.58	21.3	84.9	63.5	174.28	ND < 1.00
	10/07/13	100.05	7.93	SHEEN	92.12	-	-	-	-	-	-
	10/23/13	100.05	9.06	0.00	90.99	-	-	-	-	-	-
	11/11/13	100.05	9.52	0.00	90.53	-	-	-	-	-	-
	12/10/13	100.05	9.45	0.00	90.60	10.2	80.4	562	719	1,372	ND < 1.00
MW-18	09/28/06	101.41	12.54	0.00	88.87	1,470	137	499	1,160	3,266	5.8
	12/07/06	101.41	12.76	0.00	88.65	2,490	210	518	1,820	5,038	ND < 10
	03/29/07	101.41	12.33	0.00	89.08	2,190	170	510	1,100	3,970	ND < 20
	06/13/07	101.41	11.10	0.00	90.31	2,400	296	1,040	3,360	7,096	ND < 10
	09/19/07	101.41	12.02	0.00	89.39	1,820	114	397	951	3,282	ND < 2.5
	12/11/07	101.41	13.40	0.00	88.01	1,670	63.6	241	439	2,414	ND < 5
	03/13/08	101.41	13.12	0.00	88.29	1,770	94.2	399	649	2,912	ND < 10
	06/06/08	101.41	13.24	0.00	88.17	2,410	156	746	1,220	4,532	ND < 10
	12/30/08	101.41	12.58	0.00	88.83	1,970	80.4	319	620	2,989	ND < 5
	03/16/09	101.41	12.85	0.00	88.56	1,850	79.7	254	417	2,601	ND < 5
	06/08/09	101.41	12.51	0.00	88.90	1,680	79.8	302	480	2,542	ND < 10
	07/20/09	101.41	12.65	0.00	88.76	1,570	83.7	301	537	2,492	ND < 10
	09/24/09	101.41	12.96	0.00	88.45	1,010	48.8	131	363	1,553	ND < 1
	12/03/09	101.41	12.76	0.00	88.65	1,380	57.2	355	720	2,512	ND < 5
	03/03/10	101.41	11.90	0.00	89.51	1,790	80.6	400	548	2,819	ND < 10
	06/07/10	101.41	12.47	0.00	88.94	1,630	103	502	548	2,783	ND < 5
	09/01/10	101.41	12.83	0.00	88.58	2,580	102	347	637	3,666	ND < 20
	12/03/10	101.41	12.87	0.00	88.54	1,020	39.4	119	175	1,353	ND < 10
	03/29/11	101.41	10.46	0.00	90.95	746	34.7	137	163	1,081	ND < 5
	06/16/11	101.41	11.00	0.00	90.41	2,180	123	548	738	3,589	ND < 10
	08/08/11	101.41	10.71	0.00	90.70	2,440	104	261	374	3,179	ND < 10
	09/19/11	101.41	10.34	0.00	91.07	1,200	64.8	318	425	2,008	ND < 5
	12/05/11	101.41	9.90	0.00	91.51	1,620	65	287	345	2,317	ND < 0.92
	03/16/12	101.41	10.66	0.00	90.75	1,740	101	1,310	1,510	4,661	ND < 1
	06/08/12	101.41	9.83	0.00	91.58	153	11.9	109	137	410.9	ND < 1.00
	09/07/12	101.41	10.05	0.00	91.36	1,070	53.8	451	337	1,912	ND < 1.00
	12/18/12	101.41	10.18	0.00	91.23	944	52.9	160	315	1,472	ND < 1.00

TABLE 1**HISTORICAL GROUNDWATER MONITORING DATA**

ExxonMobil Station #17-EMW
 304 Columbia Street
 Brooklyn, NY

Well	Date	Casing Elevation (ft)	Depth to Water (ft)	Product Thickness (ft)	Adjusted Elevation (ft)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes, Total (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)
NYSDEC TOGS 1.1.1 GWQS						1	5	5	5	NS	10
MW-18	03/14/13	101.41	9.95	0.00	91.46	780	31.3	89.2	137	1,038	ND < 1.00
con't	06/24/13	101.41	8.85	0.00	92.56	382	26.5	97.3	188	693.8	ND < 1.00
	09/04/13	101.41	10.13	0.00	91.28	1,150	87.8	371	522	2,131	ND < 1.00
	09/06/13	101.41	10.66	0.00	90.75	-	-	-	-	-	-
	12/10/13	101.41	11.01	0.00	90.40	820	55.1	122	176	1,173	ND < 1.00
MW-19	09/06/13	NSD	9.41	0.00	-	39.3	15.8	171	58.3	284.4	ND < 1.00
	10/07/13	NSD	9.58	SHEEN	-	-	-	-	-	-	-
	10/23/13	NSD	9.89	0.00	-	-	-	-	-	-	-
	11/11/13	NSD	10.42	0.00	-	-	-	-	-	-	-
	12/10/13	NSD	10.29	0.00	-	57.5	18.1	148	56.2	279.8	4.75
MW-20	09/06/13	NSD	9.34	0.00	-	44.5	3.65	44.6	15.4	108.15	29.2
	10/07/13	NSD	9.58	SHEEN	-	-	-	-	-	-	-
	10/23/13	NSD	9.82	0.00	-	-	-	-	-	-	-
	11/11/13	NSD	10.20	0.00	-	-	-	-	-	-	-
	12/10/13	NSD	10.24	0.00	-	145	2.62	89.1	21.1	257.82	47.4

NOTES:

TOGS 1.1.1 GWQS = Ambient Ground Water Quality Standards Guidance Values and Groundwater Effluent Limitations, amended April 2000

- = Not analyzed or measured

BOLD = Value exceeds regulatory limits

BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes

CNL = Could Not Locate

DRY = Insufficient water for sampling

ft = Feet

J = Estimated value

µg/L = Micrograms per liter

MTBE = Methyl tertiary butyl ether

< # = Not detected. Where an analyte is not detected, a reporting limit is given.

NS = No Standard

NSD = No Survey Data

NYSDEC = New York State Department of Environmental Conservation

TABLE 2**HISTORICAL GROUNDWATER BIOMONITORING DATA**

Former ExxonMobil Station #17-EMW
 304 Columbia Street
 Brooklyn, NY

Well	Date	Dissolved Oxygen (mg/L)
		NS
MW-1	03/03/10	0.68
	09/07/12	0.45
	12/18/12	0.38
	03/14/13	0.67
	06/24/13	0.11
	12/10/13	1.74
MW-2	12/10/13	0.79
MW-3	07/20/09	2.08
	09/24/09	0.64
	12/03/09	0.64
	03/03/10	0.71
	06/07/10	0.60
	09/01/10	0.52
	12/03/10	0.56
	03/29/11	1.39
	06/16/11	5.28
	08/08/11	0.76
	09/07/12	0.41
	12/18/12	0.18
	03/14/13	0.38
	06/24/13	0.90
	09/04/13	2.35
	12/10/13	3.02
MW-5	09/24/09	0.75
	12/03/09	0.94
	03/03/10	0.91
	06/07/10	1.51
	09/01/10	1.18
	12/03/10	0.47
	03/29/11	1.41
	06/16/11	1.41
	08/08/11	4.76
	09/19/11	2
	09/07/12	0.45
	12/18/12	0.21
	03/14/13	3.72
	06/24/13	2.33
	09/04/13	6.18
	12/10/13	4.00
MW-7A	07/20/09	10
	09/24/09	0.52
	12/03/09	0.62
	03/03/10	0.64
	06/07/10	2.37
	09/01/10	1.22
	12/03/10	1.2
	09/07/12	1.24
	12/18/12	0.53
	03/14/13	2.11
	06/24/13	0.17
MW-8A	07/20/09	1.63
	09/24/09	1.56
	12/03/09	0.70

TABLE 2**HISTORICAL GROUNDWATER BIOMONITORING DATA**

Former ExxonMobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Dissolved Oxygen (mg/L)
		NS
MW-8A	03/03/10	0.58
con't	06/07/10	1.02
	09/01/10	0.97
	12/03/10	0.91
	03/29/11	0.39
	09/19/11	1.37
	06/08/12	10
	09/07/12	1.23
	12/18/12	0.18
	03/14/13	0.34
	06/24/13	0.79
	09/06/13	0.87
	12/10/13	1.12
MW-9	09/24/09	1.71
	12/03/09	0.86
	03/03/10	0.46
	06/07/10	1.14
	09/01/10	0.75
	12/03/10	0.82
	03/29/11	0.33
	09/07/12	0.73
MW-10	07/20/09	1.47
	09/24/09	1.53
	12/03/09	0.52
	03/03/10	1.21
	06/07/10	1.27
	09/01/10	2.1
	12/03/10	0.82
	03/29/11	1.19
	06/16/11	1.32
	08/08/11	0.65
	09/19/11	4.48
	06/08/12	7
	09/07/12	11.63
	12/18/12	0.21
	03/14/13	0.89
	06/24/13	0.45
	09/06/13	2.45
	12/10/13	1.39
MW-11	12/03/09	0.41
	03/03/10	1.18
	06/07/10	1.09
	09/01/10	0.88
	12/03/10	0.68
	03/29/11	2.15
	06/16/11	4.32
	08/08/11	2.72
	09/19/11	1.27
	09/07/12	0.80
	12/18/12	0.25
	03/14/13	0.33
	06/24/13	0.12
	09/04/13	0.07
	12/10/13	1.03

TABLE 2**HISTORICAL GROUNDWATER BIOMONITORING DATA**

Former ExxonMobil Station #17-EMW
 304 Columbia Street
 Brooklyn, NY

Well	Date	Dissolved Oxygen (mg/L)
		NS
MW-12	07/20/09	3.15
	09/24/09	1.56
	12/03/09	1.44
	03/03/10	0.98
	06/07/10	0.80
	09/01/10	3.10
	12/03/10	3.01
	03/29/11	0.47
	06/16/11	4.17
	08/08/11	2.23
	09/19/11	1.5
	09/07/12	0.42
	12/18/12	0.27
	03/14/13	1.81
	06/24/13	0.30
	09/04/13	2.64
	12/10/13	1.83
MW-13	07/20/09	1.98
	09/24/09	0.74
	12/03/09	1.03
	03/03/10	0.59
	06/07/10	0.94
	09/01/10	0.81
	12/03/10	0.66
	03/29/11	1.08
	06/16/11	3.23
	08/08/11	7.89
	09/19/11	8.73
	09/07/12	0.31
	12/18/12	0.21
	03/14/13	0.42
	06/24/13	0.33
	09/26/13	1-2
	12/10/13	0.75
MW-14	07/20/09	3.2
	09/24/09	0.69
	12/03/09	0.47
	03/03/10	0.71
	06/07/10	0.59
	09/01/10	0.44
	12/03/10	0.39
	03/29/11	1.89
	06/16/11	2.4
	08/08/11	2.42
	09/19/11	1.08
	09/07/12	3.35
	12/18/12	0.16
	03/14/13	2.84
	06/24/13	0.23
	09/04/13	4.42
	12/10/13	1.89

TABLE 2**HISTORICAL GROUNDWATER BIOMONITORING DATA**

Former ExxonMobil Station #17-EMW
 304 Columbia Street
 Brooklyn, NY

Well	Date	Dissolved Oxygen (mg/L)
		NS
MW-15	07/20/09	1.46
	09/24/09	1.11
	12/03/09	0.77
	03/03/10	0.81
	06/07/10	1.08
	09/01/10	1.61
	12/03/10	0.72
	03/29/11	0.34
	06/16/11	0.90
	08/08/11	0.93
	09/19/11	0.81
	09/07/12	0.79
	12/18/12	0.47
	03/14/13	1.75
	06/24/13	0.94
	09/06/13	1.76
	12/10/13	2.72
MW-16	03/03/10	0.71
	03/29/11	1.37
	06/16/11	1.89
	09/19/11	1.12
	09/07/12	0.27
	12/18/12	0.52
	03/14/13	0.83
	06/24/13	0.74
	12/10/13	0.90
MW-17	07/20/09	1.88
	09/24/09	0.86
	12/03/09	0.58
	03/03/10	0.91
	06/07/10	0.62
	09/01/10	1.04
	12/03/10	0.97
	09/07/12	0.99
	12/18/12	0.10
	03/14/13	1.65
	06/24/13	0.82
	09/26/13	1-2
	12/10/13	3.77
MW-18	07/20/09	1.62
	09/24/09	0.63
	12/03/09	0.50
	03/03/10	0.49
	06/07/10	0.51
	09/01/10	0.40
	12/03/10	0.39
	03/29/11	1.39
	06/16/11	1.47
	08/08/11	7.53
	09/19/11	1.02
	09/07/12	1.08

TABLE 2**HISTORICAL GROUNDWATER BIOMONITORING DATA**

Former ExxonMobil Station #17-EMW

304 Columbia Street

Brooklyn, NY

Well	Date	Dissolved Oxygen (mg/L)
		NS
MW-18	12/18/12	0.12
con't	03/14/13	0.91
	06/24/13	0.90
	09/04/13	1.56
	12/10/13	1.20
MW-19	09/06/13	0.48
	12/10/13	1.18
MW-20	09/06/13	2.29
	12/10/13	1.17

NOTES:

Collection of DO measurements at the Site began on 7/20/2009

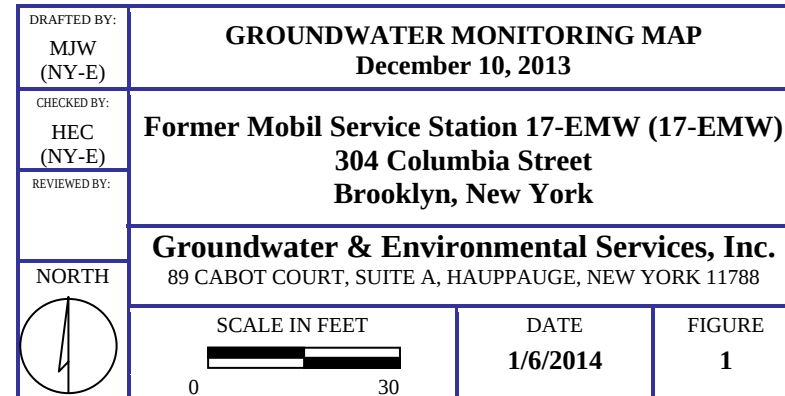
- = Not analyzed or measured

mg/L = milligrams per liter

NS = No Standard

NYSDEC = New York State Department of Environmental Conservation

FIGURE



ATTACHMENT A

LIST OF ACRONYMS

AS :	Air Sparge
BTEX :	Benzene, Toluene, Ethylbenzene and Total Xylenes
Cat-Ox :	Catalytic Oxidizer
COC :	Chemical of Concern
CP-51 SCG :	Soil quality standards as defined by the NYSDEC <i>Commissioner Policy 51/ Soil Cleanup Guidance</i> , amended October 21, 2010 (updated soil cleanup levels to TAGM 4046)
DO :	Dissolved Oxygen
DTW :	Depth to Water
EPA :	Environmental Protection Agency
ESA :	Environmental Site Assessment
eV :	Electron Volt
F&T :	Fate and Transport
ft bgs :	Feet Below Ground Surface
GES :	Groundwater & Environmental Services, Inc.
GPR :	Ground Penetrating Radar
HIT :	High Intensity Targeted
HVE :	High Vacuum Extraction
IP :	Injection Point
IRM :	Interim Remedial Measure
ISCO :	In-situ Chemical Oxidation
lbs/hr	Pounds Per Hour
LNAPL :	Light Non-Aqueous Phase Liquids
LPH :	Liquid Phase Hydrocarbons
mg/L :	Milligrams per liter
MNA :	Monitored Natural Attenuation
MPE :	Multi-Phase Extraction
MTBE :	Methyl Tertiary Butyl Ether
mV :	Millivolts
MW :	Monitoring Well
ND :	Not Detected
NYCDEP :	New York City Department of Environmental Protection
NYSDEC :	New York State Department of Environmental Conservation
O&M :	Operations and Maintenance
ORP :	Oxidation-Reduction Potential
PID :	Photo-Ionization Detector
ppm _v :	Parts Per Million by Volume
P&T :	Pump and Treat
RAP	Remedial Action Plan
RSCOs :	Recommended Soil Cleanup Objectives as defined by TAGM 4046
SRS :	Sensitive Receptor Survey
STARS :	<i>Spills Technology and Remediation Series #1</i> , amended August 1992
STIP :	Stipulation Agreement.
SVE :	Soil Vapor Extraction
SVOCs :	Semi Volatile Organic Compounds
TAGM :	<i>Technical and Administrative Guidance Memorandum (#4046): Determination of Soil Cleanup Objectives</i> , amended January 24, 1994
TOC :	Top of Casing



µg/kg :	Micrograms per kilogram
µg/L :	Micrograms per liter
UST :	Underground Storage Tank
VGAC :	Vapor-Phase Granulated Activated Carbon
VEGE :	Vacuum Enhanced Groundwater Extraction
VOCs :	Volatile Organic Compounds
WQS :	Groundwater quality standards as defined by the June 1998 <i>Technical and Operation Guidance Series 1.1.1, Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations</i> and the April 2000 <i>Addendum</i> .

ATTACHMENT B



SITE HISTORY

Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, New York

The site is currently an automobile repair facility. There are currently three (3) closed New York State Department of Environmental Conservation (NYSDEC) Spills associated with the site:

- NYSDEC Spill #93-12498 was opened on January 24, 1994 in response to a tank test failure. The spill was closed on May 14, 2003.
- NYSDEC Spill #05-02047 was opened on May 19, 2005 in response to a used oil spill. The spill was closed on April 26, 2010.
- NYSDEC Spill #06-10200 was opened on December 7, 2006 in response to an unknown spill event. The spill was closed on April 26, 2010.

There is one (1) active NYSDEC Spill associated with the site:

- NYSDEC Spill #89-04339 was opened on August 1, 1989 during UST removal activities. The spill remains open.

Information pertaining to the active spill, along with historical investigation and remedial activities conducted at the site, has been summarized below.

- July 1989 – A tank removal and replacement event was conducted on behalf of Mobil Oil Corporation. Fifteen (15) underground storage tanks (USTs) were removed from the site and four new USTs were installed. Petroleum-impacted soil and liquid phase hydrocarbons (LPH) were discovered during tank removal activities. Approximately 650 tons of petroleum-impacted soil was excavated and disposed at a state-certified landfill.
- August 1, 1989 – Spill #89-04339 was assigned to the site by the NYSDEC.
- July 25, 1990 – A site assessment was conducted at the site. Five (5) monitoring wells were installed (W-1 through W-5). LPH was present in wells W-2 and W-3.
- December 1996 – A subsurface investigation was conducted prior to site divestment, and included the installation of three (3) direct-push soil borings.
- April 22 through 25, 1997 – Site divestment activities were conducted and included the removal of one (1) 1,000-gallon waste oil UST, one (1) 4,000-gallon abandoned single-walled steel gasoline tank, two (2) 4,000-gallon double-walled gasoline fiberglass tanks, one (1) 4,000-gallon abandoned double-walled fiberglass gasoline tank, one (1) pump island, all associated piping, and three (3) hydraulic lifts. Approximately 235.06 tons of petroleum-contaminated soil was excavated and disposed at a state-certified landfill. Seven (7) on-site monitoring wells were destroyed during tank closure activities and site renovations.



- March 25 and April 6, 1998 – A subsurface investigation was conducted which included the installation of four (4) groundwater monitoring wells (MW-1 through MW-3 and MW-5).
- October 11, 1999 – An Environmental Site Assessment was conducted and included the installation of five (5) soil borings (B-1 through B-5) to varying depths between 8 and 34 feet below ground surface (bgs).
- May 10 and 15, 2002 – A *Site Investigation Work Plan* was submitted for proposed delineation and included the installation of ten (10) on-site soil borings and four (4) off-site soil borings (along the north side of Hamilton Avenue) using a direct-push drill rig to 16 feet bgs with groundwater sampling.
- June 24, 2002 – The NYSDEC approved the *Site Investigation Work Plan* and proposed schedules submitted on May 10 and 15, 2002. The NYSDEC requested four (4) additional soil borings along Columbia Street and two additional soil borings along Woodhull Street. The NYSDEC also requested a Sensitive Receptor Survey (SRS) and UST investigation of the former tank field to evaluate the existence and/or proper abandonment of 1,000-gallon USTs from 1997.
- July 22 through 26, 2002 – A subsurface investigation was conducted and included the installation of six (6) on-site soil borings (SB-1, SB-2, SB-4, SB-7, SB-8, and SB-9) and ten (10) off-site soil borings (SB-11 through SB-20).
- December 2, 2002 – A *Subsurface Investigation Report (SIR)* was submitted to the NYSDEC for fieldwork completed in July 2002. Recommendations were made for additional off-site borings/monitoring wells along Hamilton Avenue.
- February 10, 2003 – NYSDEC and ExxonMobil visited the site to discuss proposed monitoring well locations.
- February 21, 2003 – A revised proposed monitoring well/soil boring location map was submitted to the NYSDEC via email in accordance with site discussions on February 10, 2003.
- March 20, 2003 – A letter was received from the NYSDEC to ExxonMobil approving the on- and off-site boring and monitoring well locations submitted on the February 21, 2003 revised map.
- May 12, 2003 – A subsurface investigation was conducted which included the installation of five (5) monitoring wells (MW-6A, MW-7A, MW-8A, MW-9 and MW-10).
- September 16, 2003 – A *Corrective Action Plan (CAP)* was submitted which included a proposed pilot test and future remedial plan.
- September 25, 2003 – The NYSDEC requested the CAP be expanded to include details of the pilot test and the possible installation of additional wells.



- November 18, 2003 – Letter from the NYSDEC approving the amended CAP.
- February 9, 2004 – A subsurface investigation was conducted which included the installation of three (3) soil borings which were completed as monitoring wells (MW-11 through MW-13).
- February 27, 2004 – A high vacuum dual-phase extraction (HVDPE)/enhanced fluid recovery (EFR) event was conducted. During the event, preliminary data was collected to conduct an HVDPE/EFR pilot test.
- November 4, 2004 – A supplemental subsurface investigation was conducted in which one (1) soil boring was installed and completed as a monitoring well (MW-14).
- January 2005 through March 2006 – Enhanced fluid recovery events (EFR) were conducted on a monthly basis. A passive bailer was installed in monitoring well (MW-14) on September 23, 2005. Monitoring wells MW-6, MW-7, and MW-8 were destroyed during construction activities and MW-6A was destroyed in March 2005 during construction for a billboard sign.
- June 2008 – Subsurface investigation was conducted to further evaluate current soil and groundwater hydrocarbon concentrations for additional on- and off-site delineation.
- June 15 through 16, 2009 – Chemical oxidation injections were performed where approximately 1,800 gallons of sodium persulfate and 2,700 gallons of ISOTEC's patented catalyst were injected into twelve injection points located on site (IP-1 through IP-12).
- June 22 and 23, 2010 - Approximately 1,680 gallons of a diluted EnviroClean surfactant solution was injected at MW-1, MW-2, MW-3, MW-13, and MW-16 in order to address LPH observed at the site prior to continuation of chemical injections. On June 24, 25, and 28, 2010, approximately 710 gallons of fluids were recovered during EFR events from the five injection wells.
- July 26 through 28 and August 2 through 4, 2010 – Surfactant injection and recovery events were performed. A diluted EnviroClean surfactant solution was injected at MW-1 through MW-3, MW-13, and MW-16. Approximately 836 gallons of fluids were recovered during EFR events from the five injection wells.
- December 6 through 9, 2010 –An In-Situ Chemical Oxidation (ISCO) pilot test was conducted targeting off-site areas within the eastern sidewalk along Hamilton Avenue and onsite areas within the former gasoline UST area. Twelve injection points were installed. A total of 7,200 gallons of sodium persulfate (at approximately 10.0% concentration) activated with chelated iron catalyst (ASP), including 2,400 gallons of catalyst and 4,800 gallons of oxidizer, were injected.
- August 15 and August 18, 2011 – An ISCO event was conducted targeting off-site areas within the eastern sidewalk along Hamilton Avenue and on-site areas within the former gasoline underground storage tank (UST) area. A total of 7,200 gallons of Activated



Sodium Persulfate (ASP), including 2,400 gallons of catalyst and 4,800 gallons of oxidizer, were injected.

- July 9 through 11, 2012- A Limited Off-Site Investigation was conducted within the eastern sidewalk along Hamilton Avenue to delineate soil impacts. Vertical Delineation: Soil analytical data results reported concentrations of STARS list compounds above CP-51 soil cleanup levels ranging from 8 to 20 feet below ground surface. Groundwater was encountered between 7 and 10 feet below ground surface within the recently advanced boring locations. This is evidence of a saturated smear zone that exists below the eastern sidewalk of Hamilton Avenue. Horizontal Delineation: Soil analytical data results reported concentrations of STARS list compounds above CP-51 soil cleanup levels within soil borings SB103 through SB107. Soil borings could not be completed south of SB107 due to underground utility obstructions. MW-17, located north of SB103, has contained measurable LPH within the last year. Horizontal delineation of soil impacts extend from SB101 south to MW-16 where increases of BTEX and MTBE have been reported in groundwater within the last year.
- December 18, 2012 – A Site Conceptual Model (SCM) and Remedial Alternatives Analysis (RAA) Report was submitted to NYSDEC.
- July 25, 2013 – A *Surfactant Injection and Well Installation Work Plan* was submitted to the NYSDEC detailing a proposed plan to conduct on-site surfactant injection/extraction activities to reduce the presence of liquid-phase hydrocarbons (LPH) in the vicinity of the western property boundary.
- July 29, 2013 – GES received approval of the July 2013 *Surfactant Injection and Well Installation Work Plan*.
- August 2, 2013 – An Underground Injection Control (UIC) Notification letter was submitted to the U.S. Environmental Protection Agency (EPA) requesting permission to conduct remedial activities at the Site involving the injection of surfactant solution into the subsurface. A copy of the letter was forwarded to the NYSDEC.
- August 29 and September 4, 2013 – Well installation activities were conducted which included the installation of two (2) monitoring wells (MW-19 and MW-20) on the west-central portion of the Site. The wells were installed in accordance with the July 2013 *Surfactant Injection and Well Installation Work Plan*.

ATTACHMENT C



Please print or type
(Form designed for use on 4112 pitch/typewriter)

450 SOUTH FRONT STREET, ELIZABETH, NJ 07202

A002EF NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 48497		2. Page 1 of 1		NHZ 948497			
3. Generator's Name and Mailing Address ExxonMobil Oil Corp. C/O GROUNDWATER & ENVIRONMENTAL SERVICES 89 CABOT COURT, SUITE A HAUPPAUGE, NY 11788						ID# Former Mobil 17EMW 304 Columbia St. Brooklyn, NY					
4. Generator's Phone (800) 360-9405						A. Transporter's Phone 908-820-8800					
5. Transporter 1 Company Name LORCO PETROLEUM SERVICES			6. US EPA ID Number N J R . 0 . 0 . 0 . 0 . 2 . 3 . 0 . 3 . 6			B. Transporter's Phone					
7. Transporter 2 Company Name			8. US EPA ID Number			C. Facility's Phone 908-820-8800					
9. Designated Facility Name and Site Address LORCO PETROLEUM SERVICES 450 SOUTH FRONT STREET ELIZABETH, NJ 07202						10. US EPA ID Number N J R . 0 . 0 . 0 . 0 . 2 . 3 . 0 . 3 . 6					
11. Waste Shipping Name and Description a. UST GROUND WATER, NON-RCRA NON-DOT REGULATED b. c. d.						12. Containers		13. Total Quantity		14. Unit Wt/Vol	
						No. Type					
						001 TT		4x358		9	
D. Additional Descriptions for Materials Listed Above						E. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information 24- HOUR EMERGENCY RESPONSE #908-820-8800 DECAL # 09436 EGR# 128 TRUCK # 87											
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 FRANK LOBELLO						Signature <i>Frank Lobello</i>			Month Day Year 10 8 13		
17. Transporter 1 Acknowledgement of Receipt of Materials						Printed/Typed Name <i>David Benbow</i>			Signature <i>David Benbow</i>		
									Month Day Year 10 8 13		
18. Transporter 2 Acknowledgement of Receipt of Materials						Printed/Typed Name			Signature		
									Month Day Year		
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 <i>h. alampar</i>						Signature <i>h. alampar</i>			Month Day Year 11 01 8 11 13		

ORIGINAL-RETURN TO GENERATOR



Please print or type
(Form designed for use on site (12 inch typewriter))

450 SOUTH FRONT STREET, ELIZABETH, NJ 07202

A002EFNON-HAZARDOUS G WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. 48498	2. Page 1 of 1	NHZ 948498
3. Generator's Name and Mailing Address ExxonMobil Oil Corp. C/O GROUNDWATER & ENVIRONMENTAL SERVICES 89 CABOT COURT, SUITE A HAUPPAUGE, NY 11788		ID# Former Mobil 17-Env 304 Columbia St. Brooklyn, NY			
4. Generator's Phone (800) 360-9405					
5. Transporter 1 Company Name LORCO PETROLEUM SERVICES		6. US EPA ID Number N J R 0 0 0 0 2 3 0 3 6		A. Transporter's Phone 908-820-8800	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address LORCO PETROLEUM SERVICES 450 SOUTH FRONT STREET ELIZABETH, NJ 07202		10. US EPA ID Number N J R 0 0 0 0 2 3 0 3 6		C. Facility's Phone 908-820-8800	
11. Waste Shipping Name and Description			12. Containers	13. Total Quantity	14. Unit Wt/Vol
a. UST GROUND WATER, NON-RCRA NON-DOT REGULATED			No. 001	Type II	xx434
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above			E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24- HOUR EMERGENCY RESPONSE #908-820-8800 DECAL # 69436 EGR# 128 TRUCK # 89					
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 ON BEHALF EXXON MOBIL KEN LUKAS FRANK LOBELLO		Signature ON BEHALF OF EXXONMOBIL [Signature]		Month 10	Day 10
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature [Signature]		Month 10	Day 10
Printed/Typed Name David Bonbow		Signature [Signature]		Month 10	Day 10
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature		Month	Day
Printed/Typed Name		Signature		Month	Day
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]		Signature [Signature]		Month 10	Day 11

ORIGINAL-RETURN TO GENERATOR



450 SOUTH FRONT STREET, ELIZABETH, NJ 07202

Please print or type
(Form designed for use on site (12-pitch/typewriter))

A002EFNON-HAZARDOUS G WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No. 948480	2. Page 1 of 1	NHZ 948480	
3. Generator's Name and Mailing Address ExxonMobil Oil Corp. C/O GROUNDWATER & ENVIRONMENTAL SERVICES 89 CABOT COURT, SUITE A HAUPPAUGE, NY 11788			ID# Former Mobil 17E410 304 Columbia St, Brooklyn, NY			
4. Generator's Phone (800) 360-9405		6. US EPA ID Number N J R 0 0 0 0 2 3 0 3 6		A. Transporter's Phone 908-820-8800		
5. Transporter 1 Company Name LORCO PETROLEUM SERVICES		7. Transporter 2 Company Name		B. Transporter's Phone		
9. Designated Facility Name and Site Address LORCO PETROLEUM SERVICES 450 SOUTH FRONT STREET ELIZABETH, NJ 07202		10. US EPA ID Number N J R 0 0 0 0 2 3 0 3 6		C. Facility's Phone 908-820-8800		
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity	14. Unit Wt/Vol
a. UST GROUND WATER, NON-RCRA NON-DOT REGULATED				601 TT xx 230.		g.
b.						
c.						
d.						
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24- HOUR EMERGENCY RESPONSE #908-820-8800 DECAL # 09436 EGR# 128 TRUCK # 87						
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 KEN LUKAS OF BEHALF FRANK LOBELLO OF EXXON MOBIL		Signature ON BEHALF OF EXXON MOBIL		Month Day Year 10 11 13		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name DAVID BENBEN		Signature David Benben		Month Day Year 10 11 13		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
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 L. ataman		Signature L. ataman		Month Day Year 10 11 13		

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL-RETURN TO GENERATOR



Please print or type
(Form designed for use on site (12-psi/100psi relief))

450 SOUTH FRONT STREET, ELIZABETH, NJ 07202

A002EFNON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	NHZ 948472
3. Generator's Name and Mailing Address ExxonMobil Oil Corp. C/O GROUNDWATER & ENVIRONMENTAL SERVICES 89 CABOT COURT, SUITE A HAUPPAUGE, NY 11788			ID# former Mobil 17-ENV 304 Columbia St. Brooklyn, NY		
4. Generator's Phone (800) 360-9405		6. US EPA ID Number N J R . 0 . 0 . 0 . 0 . 2 . 3 . 0 . 3 . 6		A. Transporter's Phone 908-820-8800	
5. Transporter 1 Company Name LORCO PETROLEUM SERVICES		7. Transporter 2 Company Name		B. Transporter's Phone	
9. Designated Facility Name and Site Address LORCO PETROLEUM SERVICES 450 SOUTH FRONT STREET ELIZABETH, NJ 07202		10. US EPA ID Number N J R . 0 . 0 . 0 . 0 . 2 . 3 . 0 . 3 . 6		C. Facility's Phone 908-820-8800	
11. Waste Shipping Name and Description				12. Containers No.	13. Total Quantity
a. UST GROUND WATER, NON-RCRA NON-DOT REGULATED				Type	Unit Wt/Vol
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information 24- HOUR EMERGENCY RESPONSE #908-820-8800 DECAL # _____ EGR# 128 TRUCK # 81					
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 FRANK LOBELLO		Signature <i>Frank Lobello</i>		Month Day Year 11/12/13	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>John Greve</i>		Signature <i>John Greve</i>		Month Day Year 11/12/13	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
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 <i>Andros Gonzalez</i>		Signature <i>Andros Gonzalez</i>		Month Day Year 11/12/13	

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL-RETURN TO GENERATOR



Please print or type
(Form designed for use on site (12 inch) typewriter.)

450 SOUTH FRONT STREET, ELIZABETH, NJ 07202

A002EFNON-HAZARDOUS G WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	NHZ 948460	
3. Generator's Name and Mailing Address ExxonMobil Oil Corp. C/O GROUNDWATER & ENVIRONMENTAL SERVICES 89 CABOT COURT, SUITE A HAUPPAUGE, NY 11788		6. US EPA ID Number N J R 0 0 0 0 2 3 0 3 6		ID# <i>Former mobil 17-Emu 304 Columbia Street Brooklyn NY</i>		
4. Generator's Phone (800) 360-9403		7. Transporter 2 Company Name		A. Transporter's Phone 908-820-8800		
5. Transporter 1 Company Name LORCO PETROLEUM SERVICES		8. US EPA ID Number		B. Transporter's Phone		
9. Designated Facility Name and Site Address LORCO PETROLEUM SERVICES 450 SOUTH FRONT STREET ELIZABETH, NJ 07202		10. US EPA ID Number N J R 0 0 0 0 2 3 0 3 6		C. Facility's Phone 908-820-8800		
11. Waste Shipping Name and Description				12. Containers No.	Type	13. Total Quantity
a. UST GROUND WATER, NON-RCRA NON-DOT REGULATED				001	TT	X302
b.						
c.						
d.						
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24- HOUR EMERGENCY RESPONSE #908-820-8800 DECAL # _____ EGR# 128 TRUCK # 81						
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 FRANK LOBELLO		Signature <i>Frank Lobello</i>		Month Day Year 11 13 13		
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name <i>John Gove</i>		Signature <i>John Gove</i>		Month Day Year 11 13 13		
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name		Signature		Month Day Year		
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 <i>Andres Gonzalez</i>		Signature <i>Andres Gonzalez</i>		Month Day Year 11 13 13		

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL-RETURN TO GENERATOR



Please print or type
(Form designed for use on site (12-plate) typewriter)

450 SOUTH FRONT STREET, ELIZABETH, NJ 07202

A002EF NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1 of 1	NHZ 948462
3. Generator's Name and Mailing Address ExxonMobil Oil Corp. C/O GROUNDWATER & ENVIRONMENTAL SERVICES 89 CABOT COURT, SUITE A HAUPPAUGE, NY 11788			ID# <i>Former Mobil 17-EMW</i> <i>304 Columbus St.</i> <i>Brooklyn NY</i>		
4. Generator's Phone (800) 360-9405		6. US EPA ID Number N J R . 0 . 0 . 0 . 0 . 2 . 3 . 0 . 3 . 6		A. Transporter's Phone 908-820-8800	
5. Transporter 1 Company Name LORCO PETROLEUM SERVICES		7. Transporter 2 Company Name		B. Transporter's Phone	
9. Designated Facility Name and Site Address LORCO PETROLEUM SERVICES 450 SOUTH FRONT STREET ELIZABETH, NJ 07202		10. US EPA ID Number N J R . 0 . 0 . 0 . 0 . 2 . 3 . 0 . 3 . 6		C. Facility's Phone 908-820-8800	
11. Waste Shipping Name and Description				12. Containers No. Type	13. Total Quantity
a. UST GROUND WATER, NON-RCRA NON-DOT REGULATED				<i>001</i>	<i>TTX 2759</i>
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above				E. Handling Codes for Wastes Listed Above	
15. Special Handling Instructions and Additional Information 24- HOUR EMERGENCY RESPONSE #908-820-8800 DECAL # _____ EGR# 128 TRUCK # 81					
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 FRANK LOBELLO		Signature <i>Frank Lobello</i>		Month Day Year <i>11/14/13</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name <i>John Guwe</i>		Signature <i>John Guwe</i>		Month Day Year <i>11/14/13</i>	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
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 <i>Andres Gonzalez</i>		Signature <i>Andres Gonzalez</i>		Month Day Year <i>11/14/13</i>	

GENERATOR

TRANSPORTER

FACILITY

ORIGINAL-RETURN TO GENERATOR

ATTACHMENT D

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Nashville

2960 Foster Creighton Drive

Nashville, TN 37204

Tel: (615)726-0177

TestAmerica Job ID: 490-42379-1

TestAmerica SDG: 304 Columbia St, Brooklyn, NY

Client Project/Site: EM 17-EMW

For:

Groundwater & Environmental Services Inc

89A Cabot Court

Hauppauge, New York 11788

Attn: Jessica Ferngren



Authorized for release by:

12/26/2013 8:50:21 AM

Leah Klingensmith, Senior Project Manager

leah.klingensmith@testamericainc.com

Designee for

Jennifer Huckaba, Project Manager II

(615)301-5042

jennifer.huckaba@testamericainc.com

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Sample Summary

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-42379-1	MW-17	Ground Water	12/10/13 10:05	12/11/13 09:00
490-42379-2	MW-1	Ground Water	12/10/13 10:30	12/11/13 09:00
490-42379-3	MW-11	Ground Water	12/10/13 10:50	12/11/13 09:00
490-42379-4	MW-19	Ground Water	12/10/13 11:15	12/11/13 09:00
490-42379-5	MW-12	Ground Water	12/10/13 11:50	12/11/13 09:00
490-42379-6	MW-20	Ground Water	12/10/13 12:15	12/11/13 09:00
490-42379-7	MW-2	Ground Water	12/10/13 12:45	12/11/13 09:00
490-42379-8	MW-13	Ground Water	12/10/13 13:20	12/11/13 09:00
490-42379-9	MW-3	Ground Water	12/10/13 13:45	12/11/13 09:00
490-42379-10	MW-16	Ground Water	12/10/13 12:40	12/11/13 09:00
490-42379-11	MW-5	Ground Water	12/10/13 11:20	12/11/13 09:00
490-42379-12	MW-8A	Ground Water	12/10/13 10:50	12/11/13 09:00
490-42379-13	MW-10	Ground Water	12/10/13 10:25	12/11/13 09:00
490-42379-14	MW-14	Ground Water	12/10/13 12:15	12/11/13 09:00
490-42379-15	MW-15	Ground Water	12/10/13 10:00	12/11/13 09:00
490-42379-16	MW-18	Ground Water	12/10/13 11:45	12/11/13 09:00
490-42379-17	Trip Blank	Water	12/10/13 00:01	12/11/13 09:00

Definitions/Glossary

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-17

Date Collected: 12/10/13 10:05

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-1

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	10.2		1.00		ug/L			12/19/13 02:51	1
Toluene	80.4		1.00		ug/L			12/19/13 02:51	1
Ethylbenzene	562		10.0		ug/L			12/19/13 16:38	10
Xylenes, Total	719		30.0		ug/L			12/19/13 16:38	10
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	148	X	70 - 130		12/19/13 02:51	1
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		12/19/13 16:38	10
4-Bromofluorobenzene (Surr)	100		70 - 130		12/19/13 02:51	1
4-Bromofluorobenzene (Surr)	92		70 - 130		12/19/13 16:38	10
Dibromofluoromethane (Surr)	89		70 - 130		12/19/13 02:51	1
Dibromofluoromethane (Surr)	95		70 - 130		12/19/13 16:38	10
Toluene-d8 (Surr)	96		70 - 130		12/19/13 02:51	1
Toluene-d8 (Surr)	102		70 - 130		12/19/13 16:38	10

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-1

Date Collected: 12/10/13 10:30

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-2

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	16.7		1.00		ug/L			12/19/13 03:18	1
Toluene	28.7		1.00		ug/L			12/19/13 03:18	1
Ethylbenzene	315		10.0		ug/L			12/19/13 17:05	10
Xylenes, Total	211		3.00		ug/L			12/19/13 03:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 03:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		70 - 130		12/19/13 03:18	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		12/19/13 17:05	10
4-Bromofluorobenzene (Surr)	100		70 - 130		12/19/13 03:18	1
4-Bromofluorobenzene (Surr)	93		70 - 130		12/19/13 17:05	10
Dibromofluoromethane (Surr)	91		70 - 130		12/19/13 03:18	1
Dibromofluoromethane (Surr)	95		70 - 130		12/19/13 17:05	10
Toluene-d8 (Surr)	95		70 - 130		12/19/13 03:18	1
Toluene-d8 (Surr)	101		70 - 130		12/19/13 17:05	10

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-11

Date Collected: 12/10/13 10:50

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-3

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	490		10.0		ug/L			12/19/13 17:32	10
Toluene	107		1.00		ug/L			12/19/13 03:45	1
Ethylbenzene	561		10.0		ug/L			12/19/13 17:32	10
Xylenes, Total	869		30.0		ug/L			12/19/13 17:32	10
Methyl tert-butyl ether	2.93		1.00		ug/L			12/19/13 03:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		70 - 130		12/19/13 03:45	1
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		12/19/13 17:32	10
4-Bromofluorobenzene (Surr)	96		70 - 130		12/19/13 03:45	1
4-Bromofluorobenzene (Surr)	91		70 - 130		12/19/13 17:32	10
Dibromofluoromethane (Surr)	88		70 - 130		12/19/13 03:45	1
Dibromofluoromethane (Surr)	93		70 - 130		12/19/13 17:32	10
Toluene-d8 (Surr)	97		70 - 130		12/19/13 03:45	1
Toluene-d8 (Surr)	102		70 - 130		12/19/13 17:32	10

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-19

Date Collected: 12/10/13 11:15

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-4

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	57.5		1.00		ug/L			12/19/13 04:12	1
Toluene	18.1		1.00		ug/L			12/19/13 04:12	1
Ethylbenzene	148		1.00		ug/L			12/19/13 04:12	1
Xylenes, Total	56.2		3.00		ug/L			12/19/13 04:12	1
Methyl tert-butyl ether	4.75		1.00		ug/L			12/19/13 04:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		70 - 130		12/19/13 04:12	1
4-Bromofluorobenzene (Surr)	101		70 - 130		12/19/13 04:12	1
Dibromofluoromethane (Surr)	85		70 - 130		12/19/13 04:12	1
Toluene-d8 (Surr)	98		70 - 130		12/19/13 04:12	1

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-12

Date Collected: 12/10/13 11:50

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-5

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	34.4		1.00		ug/L			12/19/13 04:39	1
Toluene	ND		1.00		ug/L			12/19/13 04:39	1
Ethylbenzene	1.45		1.00		ug/L			12/19/13 04:39	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 04:39	1
Methyl tert-butyl ether	12.1		1.00		ug/L			12/19/13 04:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130					12/19/13 04:39	1
4-Bromofluorobenzene (Surr)	96		70 - 130					12/19/13 04:39	1
Dibromofluoromethane (Surr)	94		70 - 130					12/19/13 04:39	1
Toluene-d8 (Surr)	101		70 - 130					12/19/13 04:39	1

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-20

Date Collected: 12/10/13 12:15

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-6

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	145		1.00		ug/L			12/19/13 05:06	1
Toluene	2.62		1.00		ug/L			12/19/13 05:06	1
Ethylbenzene	89.1		1.00		ug/L			12/19/13 05:06	1
Xylenes, Total	21.1		3.00		ug/L			12/19/13 05:06	1
Methyl tert-butyl ether	47.4		1.00		ug/L			12/19/13 05:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 130		12/19/13 05:06	1
4-Bromofluorobenzene (Surr)	96		70 - 130		12/19/13 05:06	1
Dibromofluoromethane (Surr)	93		70 - 130		12/19/13 05:06	1
Toluene-d8 (Surr)	97		70 - 130		12/19/13 05:06	1

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-2
Date Collected: 12/10/13 12:45
Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-7
Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	258		5.00		ug/L			12/19/13 17:59	5
Toluene	18.5		1.00		ug/L			12/19/13 05:33	1
Ethylbenzene	204		5.00		ug/L			12/19/13 17:59	5
Xylenes, Total	109		3.00		ug/L			12/19/13 05:33	1
Methyl tert-butyl ether	39.1		1.00		ug/L			12/19/13 05:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		70 - 130					12/19/13 05:33	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130					12/19/13 17:59	5
4-Bromofluorobenzene (Surr)	95		70 - 130					12/19/13 05:33	1
4-Bromofluorobenzene (Surr)	95		70 - 130					12/19/13 17:59	5
Dibromofluoromethane (Surr)	92		70 - 130					12/19/13 05:33	1
Dibromofluoromethane (Surr)	95		70 - 130					12/19/13 17:59	5
Toluene-d8 (Surr)	100		70 - 130					12/19/13 05:33	1
Toluene-d8 (Surr)	101		70 - 130					12/19/13 17:59	5

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-13

Date Collected: 12/10/13 13:20

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-8

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	767		20.0		ug/L			12/19/13 18:26	20
Toluene	126		1.00		ug/L			12/19/13 06:00	1
Ethylbenzene	744		20.0		ug/L			12/19/13 18:26	20
Xylenes, Total	1240		60.0		ug/L			12/19/13 18:26	20
Methyl tert-butyl ether	13.7		1.00		ug/L			12/19/13 06:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133	X	70 - 130		12/19/13 06:00	1
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		12/19/13 18:26	20
4-Bromofluorobenzene (Surr)	101		70 - 130		12/19/13 06:00	1
4-Bromofluorobenzene (Surr)	95		70 - 130		12/19/13 18:26	20
Dibromofluoromethane (Surr)	89		70 - 130		12/19/13 06:00	1
Dibromofluoromethane (Surr)	96		70 - 130		12/19/13 18:26	20
Toluene-d8 (Surr)	99		70 - 130		12/19/13 06:00	1
Toluene-d8 (Surr)	101		70 - 130		12/19/13 18:26	20

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-3

Date Collected: 12/10/13 13:45

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-9

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	4.18		1.00		ug/L			12/19/13 06:27	1
Toluene	18.5		1.00		ug/L			12/19/13 06:27	1
Ethylbenzene	222		10.0		ug/L			12/19/13 18:53	10
Xylenes, Total	211		30.0		ug/L			12/19/13 18:53	10
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		70 - 130		12/19/13 06:27	1
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		12/19/13 18:53	10
4-Bromofluorobenzene (Surr)	93		70 - 130		12/19/13 06:27	1
4-Bromofluorobenzene (Surr)	94		70 - 130		12/19/13 18:53	10
Dibromofluoromethane (Surr)	96		70 - 130		12/19/13 06:27	1
Dibromofluoromethane (Surr)	94		70 - 130		12/19/13 18:53	10
Toluene-d8 (Surr)	100		70 - 130		12/19/13 06:27	1
Toluene-d8 (Surr)	102		70 - 130		12/19/13 18:53	10

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-16

Date Collected: 12/10/13 12:40

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-10

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1060		20.0		ug/L			12/19/13 19:20	20
Toluene	57.8		1.00		ug/L			12/19/13 06:54	1
Ethylbenzene	99.1		1.00		ug/L			12/19/13 06:54	1
Xylenes, Total	200		60.0		ug/L			12/19/13 19:20	20
Methyl tert-butyl ether	1.30		1.00		ug/L			12/19/13 06:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	151	X	70 - 130		12/19/13 06:54	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		12/19/13 19:20	20
4-Bromofluorobenzene (Surr)	99		70 - 130		12/19/13 06:54	1
4-Bromofluorobenzene (Surr)	94		70 - 130		12/19/13 19:20	20
Dibromofluoromethane (Surr)	89		70 - 130		12/19/13 06:54	1
Dibromofluoromethane (Surr)	95		70 - 130		12/19/13 19:20	20
Toluene-d8 (Surr)	100		70 - 130		12/19/13 06:54	1
Toluene-d8 (Surr)	102		70 - 130		12/19/13 19:20	20

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-5

Date Collected: 12/10/13 11:20

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-11

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			12/19/13 07:21	1
Toluene	ND		1.00		ug/L			12/19/13 07:21	1
Ethylbenzene	ND		1.00		ug/L			12/19/13 07:21	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 07:21	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 07:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		12/19/13 07:21	1
4-Bromofluorobenzene (Surr)	95		70 - 130		12/19/13 07:21	1
Dibromofluoromethane (Surr)	97		70 - 130		12/19/13 07:21	1
Toluene-d8 (Surr)	103		70 - 130		12/19/13 07:21	1

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-8A

Date Collected: 12/10/13 10:50

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-12

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1370		20.0		ug/L			12/19/13 20:14	20
Toluene	226		20.0		ug/L			12/19/13 20:14	20
Ethylbenzene	742		20.0		ug/L			12/19/13 20:14	20
Xylenes, Total	3210		60.0		ug/L			12/19/13 20:14	20
Methyl tert-butyl ether	333		20.0		ug/L			12/19/13 20:14	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		12/19/13 20:14	20
4-Bromofluorobenzene (Surr)	94		70 - 130		12/19/13 20:14	20
Dibromofluoromethane (Surr)	94		70 - 130		12/19/13 20:14	20
Toluene-d8 (Surr)	99		70 - 130		12/19/13 20:14	20

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-10

Date Collected: 12/10/13 10:25

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-13

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	6080		100		ug/L			12/19/13 20:41	100
Toluene	560		20.0		ug/L			12/19/13 21:08	20
Ethylbenzene	1410		20.0		ug/L			12/19/13 21:08	20
Xylenes, Total	4520		300		ug/L			12/19/13 20:41	100
Methyl tert-butyl ether	464		20.0		ug/L			12/19/13 21:08	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 130		12/19/13 20:41	100
1,2-Dichloroethane-d4 (Surr)	99		70 - 130		12/19/13 21:08	20
4-Bromofluorobenzene (Surr)	94		70 - 130		12/19/13 20:41	100
4-Bromofluorobenzene (Surr)	93		70 - 130		12/19/13 21:08	20
Dibromofluoromethane (Surr)	93		70 - 130		12/19/13 20:41	100
Dibromofluoromethane (Surr)	93		70 - 130		12/19/13 21:08	20
Toluene-d8 (Surr)	103		70 - 130		12/19/13 20:41	100
Toluene-d8 (Surr)	100		70 - 130		12/19/13 21:08	20

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-14

Lab Sample ID: 490-42379-14

Date Collected: 12/10/13 12:15

Matrix: Ground Water

Date Received: 12/11/13 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	51.9		1.00		ug/L			12/19/13 15:44	1
Toluene	ND		1.00		ug/L			12/19/13 15:44	1
Ethylbenzene	ND		1.00		ug/L			12/19/13 15:44	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 15:44	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130					12/19/13 15:44	1
4-Bromofluorobenzene (Surr)	95		70 - 130					12/19/13 15:44	1
Dibromofluoromethane (Surr)	97		70 - 130					12/19/13 15:44	1
Toluene-d8 (Surr)	100		70 - 130					12/19/13 15:44	1

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-15

Date Collected: 12/10/13 10:00

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-15

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			12/19/13 02:24	1
Toluene	ND		1.00		ug/L			12/19/13 02:24	1
Ethylbenzene	ND		1.00		ug/L			12/19/13 02:24	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 02:24	1
Methyl tert-butyl ether	18.0		1.00		ug/L			12/19/13 02:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 130		12/19/13 02:24	1
4-Bromofluorobenzene (Surr)	96		70 - 130		12/19/13 02:24	1
Dibromofluoromethane (Surr)	99		70 - 130		12/19/13 02:24	1
Toluene-d8 (Surr)	102		70 - 130		12/19/13 02:24	1

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-18

Date Collected: 12/10/13 11:45

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-16

Matrix: Ground Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	820		20.0		ug/L			12/19/13 21:35	20
Toluene	55.1		1.00		ug/L			12/19/13 09:09	1
Ethylbenzene	122		1.00		ug/L			12/19/13 09:09	1
Xylenes, Total	176		3.00		ug/L			12/19/13 09:09	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 09:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134	X	70 - 130		12/19/13 09:09	1
1,2-Dichloroethane-d4 (Surr)	96		70 - 130		12/19/13 21:35	20
4-Bromofluorobenzene (Surr)	95		70 - 130		12/19/13 09:09	1
4-Bromofluorobenzene (Surr)	97		70 - 130		12/19/13 21:35	20
Dibromofluoromethane (Surr)	90		70 - 130		12/19/13 09:09	1
Dibromofluoromethane (Surr)	96		70 - 130		12/19/13 21:35	20
Toluene-d8 (Surr)	100		70 - 130		12/19/13 09:09	1
Toluene-d8 (Surr)	103		70 - 130		12/19/13 21:35	20

Client Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: Trip Blank

Lab Sample ID: 490-42379-17

Date Collected: 12/10/13 00:01

Matrix: Water

Date Received: 12/11/13 09:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			12/19/13 14:23	1
Toluene	ND		1.00		ug/L			12/19/13 14:23	1
Ethylbenzene	ND		1.00		ug/L			12/19/13 14:23	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 14:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 14:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		70 - 130		12/19/13 14:23	1
4-Bromofluorobenzene (Surr)	95		70 - 130		12/19/13 14:23	1
Dibromofluoromethane (Surr)	98		70 - 130		12/19/13 14:23	1
Toluene-d8 (Surr)	104		70 - 130		12/19/13 14:23	1

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 490-130015/5

Matrix: Water

Analysis Batch: 130015

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			12/19/13 01:57	1
Toluene	ND		1.00		ug/L			12/19/13 01:57	1
Ethylbenzene	ND		1.00		ug/L			12/19/13 01:57	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 01:57	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 01:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 130		12/19/13 01:57	1
4-Bromofluorobenzene (Surr)	93		70 - 130		12/19/13 01:57	1
Dibromofluoromethane (Surr)	100		70 - 130		12/19/13 01:57	1
Toluene-d8 (Surr)	105		70 - 130		12/19/13 01:57	1

Lab Sample ID: LCS 490-130015/4

Matrix: Water

Analysis Batch: 130015

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	20.25		ug/L		101	80 - 121
Toluene	20.0	20.72		ug/L		104	80 - 126
Ethylbenzene	20.0	19.82		ug/L		99	80 - 130
Xylenes, Total	40.0	38.76		ug/L		97	80 - 132
Methyl tert-butyl ether	20.0	17.71		ug/L		89	72 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	92		70 - 130
Dibromofluoromethane (Surr)	100		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: 490-42379-15 MS

Matrix: Ground Water

Analysis Batch: 130015

Client Sample ID: MW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	48.33		ug/L		96	75 - 133
Toluene	ND		50.0	49.48		ug/L		99	75 - 136
Ethylbenzene	ND		50.0	47.06		ug/L		94	79 - 139
Xylenes, Total	ND		100	93.90		ug/L		94	74 - 141
Methyl tert-butyl ether	18.0		50.0	62.73		ug/L		89	66 - 141

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	97		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	100		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 490-42379-15 MSD

Matrix: Ground Water

Analysis Batch: 130015

Client Sample ID: MW-15

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		50.0	49.52		ug/L		98	75 - 133	2	17
Toluene	ND		50.0	50.09		ug/L		100	75 - 136	1	15
Ethylbenzene	ND		50.0	47.52		ug/L		95	79 - 139	1	15
Xylenes, Total	ND		100	94.11		ug/L		94	74 - 141	0	15
Methyl tert-butyl ether	18.0		50.0	64.07		ug/L		92	66 - 141	2	16

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	96		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Lab Sample ID: MB 490-130118/6

Matrix: Water

Analysis Batch: 130118

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.00		ug/L			12/19/13 13:29	1
Toluene	ND		1.00		ug/L			12/19/13 13:29	1
Ethylbenzene	ND		1.00		ug/L			12/19/13 13:29	1
Xylenes, Total	ND		3.00		ug/L			12/19/13 13:29	1
Methyl tert-butyl ether	ND		1.00		ug/L			12/19/13 13:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 130		12/19/13 13:29	1
4-Bromofluorobenzene (Surr)	96		70 - 130		12/19/13 13:29	1
Dibromofluoromethane (Surr)	97		70 - 130		12/19/13 13:29	1
Toluene-d8 (Surr)	103		70 - 130		12/19/13 13:29	1

Lab Sample ID: LCS 490-130118/4

Matrix: Water

Analysis Batch: 130118

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.13		ug/L		96	80 - 121
Toluene	20.0	20.33		ug/L		102	80 - 126
Ethylbenzene	20.0	18.90		ug/L		95	80 - 130
Xylenes, Total	40.0	36.98		ug/L		92	80 - 132
Methyl tert-butyl ether	20.0	17.95		ug/L		90	72 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		70 - 130
4-Bromofluorobenzene (Surr)	95		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	102		70 - 130

TestAmerica Nashville

QC Sample Results

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 490-130118/5

Matrix: Water

Analysis Batch: 130118

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	18.95		ug/L		95	80 - 121	1	17
Toluene	20.0	19.65		ug/L		98	80 - 126	3	15
Ethylbenzene	20.0	18.46		ug/L		92	80 - 130	2	15
Xylenes, Total	40.0	36.61		ug/L		92	80 - 132	1	15
Methyl tert-butyl ether	20.0	17.40		ug/L		87	72 - 133	3	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 130
4-Bromofluorobenzene (Surr)	94		70 - 130
Dibromofluoromethane (Surr)	97		70 - 130
Toluene-d8 (Surr)	102		70 - 130

QC Association Summary

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

GC/MS VOA

Analysis Batch: 130015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-42379-1	MW-17	Total/NA	Ground Water	8260C	
490-42379-2	MW-1	Total/NA	Ground Water	8260C	
490-42379-3	MW-11	Total/NA	Ground Water	8260C	
490-42379-4	MW-19	Total/NA	Ground Water	8260C	
490-42379-5	MW-12	Total/NA	Ground Water	8260C	
490-42379-6	MW-20	Total/NA	Ground Water	8260C	
490-42379-7	MW-2	Total/NA	Ground Water	8260C	
490-42379-8	MW-13	Total/NA	Ground Water	8260C	
490-42379-9	MW-3	Total/NA	Ground Water	8260C	
490-42379-10	MW-16	Total/NA	Ground Water	8260C	
490-42379-11	MW-5	Total/NA	Ground Water	8260C	
490-42379-15	MW-15	Total/NA	Ground Water	8260C	
490-42379-15 MS	MW-15	Total/NA	Ground Water	8260C	
490-42379-15 MSD	MW-15	Total/NA	Ground Water	8260C	
490-42379-16	MW-18	Total/NA	Ground Water	8260C	
LCS 490-130015/4	Lab Control Sample	Total/NA	Water	8260C	
MB 490-130015/5	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 130118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-42379-1	MW-17	Total/NA	Ground Water	8260C	
490-42379-2	MW-1	Total/NA	Ground Water	8260C	
490-42379-3	MW-11	Total/NA	Ground Water	8260C	
490-42379-7	MW-2	Total/NA	Ground Water	8260C	
490-42379-8	MW-13	Total/NA	Ground Water	8260C	
490-42379-9	MW-3	Total/NA	Ground Water	8260C	
490-42379-10	MW-16	Total/NA	Ground Water	8260C	
490-42379-12	MW-8A	Total/NA	Ground Water	8260C	
490-42379-13	MW-10	Total/NA	Ground Water	8260C	
490-42379-13	MW-10	Total/NA	Ground Water	8260C	
490-42379-14	MW-14	Total/NA	Ground Water	8260C	
490-42379-16	MW-18	Total/NA	Ground Water	8260C	
490-42379-17	Trip Blank	Total/NA	Water	8260C	
LCS 490-130118/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-130118/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-130118/6	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-17

Date Collected: 12/10/13 10:05

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 02:51	JJR	TAL NSH
Total/NA	Analysis	8260C		10	5 mL	5 mL	130118	12/19/13 16:38	JJR	TAL NSH

Client Sample ID: MW-1

Date Collected: 12/10/13 10:30

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 03:18	JJR	TAL NSH
Total/NA	Analysis	8260C		10	5 mL	5 mL	130118	12/19/13 17:05	JJR	TAL NSH

Client Sample ID: MW-11

Date Collected: 12/10/13 10:50

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 03:45	JJR	TAL NSH
Total/NA	Analysis	8260C		10	5 mL	5 mL	130118	12/19/13 17:32	JJR	TAL NSH

Client Sample ID: MW-19

Date Collected: 12/10/13 11:15

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-4

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 04:12	JJR	TAL NSH

Client Sample ID: MW-12

Date Collected: 12/10/13 11:50

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-5

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 04:39	JJR	TAL NSH

Client Sample ID: MW-20

Date Collected: 12/10/13 12:15

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-6

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 05:06	JJR	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-2

Date Collected: 12/10/13 12:45

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-7

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 05:33	JJR	TAL NSH
Total/NA	Analysis	8260C		5	5 mL	5 mL	130118	12/19/13 17:59	JJR	TAL NSH

Client Sample ID: MW-13

Date Collected: 12/10/13 13:20

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-8

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 06:00	JJR	TAL NSH
Total/NA	Analysis	8260C		20	5 mL	5 mL	130118	12/19/13 18:26	JJR	TAL NSH

Client Sample ID: MW-3

Date Collected: 12/10/13 13:45

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-9

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 06:27	JJR	TAL NSH
Total/NA	Analysis	8260C		10	5 mL	5 mL	130118	12/19/13 18:53	JJR	TAL NSH

Client Sample ID: MW-16

Date Collected: 12/10/13 12:40

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-10

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 06:54	JJR	TAL NSH
Total/NA	Analysis	8260C		20	5 mL	5 mL	130118	12/19/13 19:20	JJR	TAL NSH

Client Sample ID: MW-5

Date Collected: 12/10/13 11:20

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-11

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 07:21	JJR	TAL NSH

Client Sample ID: MW-8A

Date Collected: 12/10/13 10:50

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-12

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	5 mL	5 mL	130118	12/19/13 20:14	JJR	TAL NSH

TestAmerica Nashville

Lab Chronicle

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Client Sample ID: MW-10

Date Collected: 12/10/13 10:25

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-13

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		100	5 mL	5 mL	130118	12/19/13 20:41	JJR	TAL NSH
Total/NA	Analysis	8260C		20	5 mL	5 mL	130118	12/19/13 21:08	JJR	TAL NSH

Client Sample ID: MW-14

Date Collected: 12/10/13 12:15

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-14

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130118	12/19/13 15:44	JJR	TAL NSH

Client Sample ID: MW-15

Date Collected: 12/10/13 10:00

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-15

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 02:24	JJR	TAL NSH

Client Sample ID: MW-18

Date Collected: 12/10/13 11:45

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-16

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130015	12/19/13 09:09	JJR	TAL NSH
Total/NA	Analysis	8260C		20	5 mL	5 mL	130118	12/19/13 21:35	JJR	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 12/10/13 00:01

Date Received: 12/11/13 09:00

Lab Sample ID: 490-42379-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	5 mL	5 mL	130118	12/19/13 14:23	JJR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL NSH

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-42379-1
SDG: 304 Columbia St, Brooklyn, NY

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	11342	04-01-14

1

2

3

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11

12

COOLER RECEIPT FORM



490-42379 Chain of Custody

Cooler Received/Opened On: 12/11/2013 @0900

1. Tracking # 7807 (last 4 digits, FedEx)

Courier: Fed-Ex IR Gun ID: 14740456

2. Temperature of rep. sample or temp blank when opened: 4.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES NO...NA

If yes, how many and where: 1 Front / side

5. Were the seals intact, signed, and dated correctly? YES NO...NA

6. Were custody papers inside cooler? YES NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) EF

7. Were custody seals on containers: YES NO and Intact YES...NO NA

Were these signed and dated correctly? YES...NO NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES NO...NA

12. Did all container labels and tags agree with custody papers? YES NO...NA

13a. Were VOA vials received? YES NO...NA

b. Was there any observable headspace present in any VOA vial? YES NO...NA

14. Was there a Trip Blank in this cooler? YES NO...NA If multiple coolers, sequence # NA

I certify that I unloaded the cooler and answered questions 7-14 (initial) EUA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES NO...NA

16. Was residual chlorine present? YES...NO NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) EUA

17. Were custody papers properly filled out (ink, signed, etc)? YES NO...NA

18. Did you sign the custody papers in the appropriate place? YES NO...NA

19. Were correct containers used for the analysis requested? YES NO...NA

20. Was sufficient amount of sample sent in each container? YES NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) EUA

I certify that I attached a label with the unique LIMS number to each container (initial) EUA

21. Were there Non-Conformance issues at login? YES NO Was a NCM generated? YES NO...#

ExxonMobil

Due Date of Report

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Consultant Name: Groundwater & Environmental Services, Inc

Address: 39 Cabot Court

City/State/Zip: Hauppauge, NY 11788

ExxonMobil Project Mgr: LARIE MCCARTHY

Consultant Project Mgr: JEFFER CORD

Consultant Telephone Number: 18003609405 (4324)

Sample Name: (Print)

Sample Signature: JEFF CORD

Nashville Division

2960 Foster Creighton

Nashville, TN 37204

Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

TA Project #: 49001306

Invoice To: GES

Report To: 17-EMW

Project Name: 17-EMW

Retail # (MRN #):

Major Project (AFE#): 364 COLUMBIA ST

Site Address: BROOKLYN NY

City, State, Zip

PO#:

PG 2 OF 2

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative								Matrix					Analyze For:																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
							Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	HNO ₃ (Red Label)	None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge	Soil		Other (specify):																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Comments/Special Instructions: email EQEDD package to: ges@equisonline.com ; LIL.ABS@gesonline.com

TA Project #: ExxonMobil projects only (bill directly to GES: 49001306)

EDDNAME: EM 17-EMW-LAB REPORT #, 180, EQEDD, ZIP

Relinquished by: [Signature] Date: 12-10-13 Time: 1900

Received by: [Signature] Date: 12-10-13 Time: 1900

Relinquished by: [Signature] Date: 12-11-13 Time: 9:00 AM

Received by: [Signature] Date: 12-11-13 Time: 9:00 AM

TA Project Manager: [Signature]

Received by TestAmerica: [Signature]

Laboratory Comments:

Temperature Upon Receipt: Y

Sample Containers Intact? Y

VOCs Free of HeadSpace? N

QC Deliverables (please circle one):

Level 2: [] Level 3: [] Level 4: []

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.

Date: []

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 490-42379-1

SDG Number: 304 Columbia St, Brooklyn, NY

Login Number: 42379

List Number: 1

Creator: Abernathy, Eric

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	