Groundwater & Environmental Services, Inc.

EASTERN NEW YORK OFFICE

July 24, 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: Site Status Update Report
Former Mobil 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 April through June of 2014 for Former Mobil Station #17-EMW ("the Site") located at 304 Columbia Street in Brooklyn, New York. During this monitoring period, the following work was performed:

Quarterly Groundwater Monitoring

The 2nd quarter groundwater monitoring event was conducted on June 3, 2014. Seventeen monitoring wells were gauged (MW-1 through MW-3, MW-5, MW-7A, MW-8A, MW-10 through MW-20) and 15 monitoring wells were sampled (MW-1, MW-3, MW-5, MW-7A, MW-8A, MW-10 through MW-15 and MW-17 through MW-20). Samples collected were analyzed for BTEX and MTBE. Monitoring wells MW-2, MW-16 and MW-17 were not sampled due to the presence of LPH. Monitoring well MW-9 could not be located and therefore was not gauged or sampled.

Dissolved BTEX concentrations ranged from non-detect at one (1) well (MW-5) to 8,805 µg/L (MW-10). Dissolved MTBE concentrations ranged from non-detect at eight (8) wells (MW-1, MW-3, MW-5, MW-7A, MW-14 and MW-17 through MW-19) to 476 µg/L (MW-10).

GES will continue to perform quarterly groundwater monitoring in September 2014. The 3rd Quarter 2014 Site Status Update Report will be submitted in October 2014.

Should you have any questions or comments regarding the information provided herein, please contact Dennis G. Shin at (800) 360-9405, extension 4333.

Respectfully Submitted,
Groundwater & Environmental Services, Inc.

Mellissa J. Winslow
Associate Environmental Scientist

Dennis G. Shin, P.E.
Senior Project 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:**	Dennis G. Shin, P.E.

Report Date: July 24, 2014

Monitoring Period: April through June 2014

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

Work Performed:

- June 3, 2014 – Conducted quarterly groundwater monitoring activities which included the gauging of 17 monitoring wells (MW-1 through MW-3, MW-5, MW-7A, MW-8A, MW-10 through MW-20) and the sampling of 15 monitoring wells (MW-1, MW-3, MW-5, MW-7A, MW-8A, MW-10 through MW-15 and MW-17 through MW-20). Samples collected were analyzed for BTEX and MTBE. Monitoring well MW-9 could not be located and therefore was not gauged or sampled. Monitoring wells MW-2, MW-16 and MW-17 were not sampled due to the presence of LPH.

Groundwater Monitoring:

Number of Wells:	**Total = 18** On-Site Wells: MWs (14): MW-1 through MW-3, MW-5, MW-7A, MW-11 through MW-14 and MW-16 through MW-20 Off-Site Wells: MWs (4): MW-8A, MW-9, MW-10 and MW-15
Gauging Frequency:	Quarterly
LPH:	MW-2 = 0.06 feet MW-16 = 0.08 feet MW-17 = 0.01 feet
Groundwater Depth:	7.71 feet (MW-11) to 10.68 (MW-8A) feet below TOC
Groundwater Flow:	Southwesterly
Sampling Frequency:	Quarterly
Groundwater Analytical Results:	BTEX: ND at one (1) well (MW-5) to 8,805 µg/L (MW-10). MTBE: ND at eight (8) wells (MW-1, MW-3, MW-5, MW-7A, MW-14 and MW-17 through MW-19) to 476 µg/L (MW-10).

Proposed Plans:

- Conduct quarterly groundwater sampling in September 2014.
- Prepare a Site Status Update Report in October 2014 documenting quarterly Site activities.

Attachments:

Table 1 – Historical Groundwater Monitoring Summary

Figure 1 – Groundwater Monitoring Map – June 3, 2014

Attachment A – List of Acronyms
Attachment B – Site History
Attachment C – Laboratory Analytical Results – Groundwater

TABLES

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-1	02/28/2005	100.00	8.48	0.01	91.53	-	-	-	-	-	-
	06/06/2005		8.41	0.01	91.60	-	-	-	-	-	-
	09/08/2005		9.10	0.08	90.96	-	-	-	-	-	-
	12/29/2005		7.95	0.01	92.06	-	-	-	-	-	-
	03/20/2006		8.69	0.09	91.38	-	-	-	-	-	-
	06/07/2006		7.65	-	92.35	-	-	-	-	-	-
	09/14/2006		7.70	0.19	92.44	-	-	-	-	-	-
	12/07/2006		7.88	0.26	92.32	-	-	-	-	-	-
	03/29/2007		8.44	0.16	91.68	-	-	-	-	-	-
	06/13/2007		-	-	-	-	-	-	-	-	-
	09/19/2007		9.03	0.35	91.23	-	-	-	-	-	-
	12/11/2007		9.10	0.02	90.92	-	-	-	-	-	-
	03/13/2008		8.46	-	91.54	**220**	**79.8**	**830**	**414**	**1,544**	**14.9**
	06/06/2008		8.61	-	91.39	**271**	**89.1**	**817**	**481**	**1,658**	**17.3**
	12/30/2008		8.24	-	91.76	**216**	**67.8**	**539**	**336**	**1,159**	**13.2**
	03/16/2009		9.41	-	90.59	**215**	**78.8**	**761**	**474**	**1,529**	9
	06/08/2009		8.23	-	91.77	**24**	**88.4**	**551**	**692**	**1,355**	ND < 5
	07/20/2009		8.48	0.28	91.73	-	-	-	-	-	-
	09/24/2009		9.12	0.14	90.99	-	-	-	-	-	-
	12/03/2009		8.96	0.10	91.12	-	-	-	-	-	-
	03/03/2010		7.98	-	92.02	**109**	**75.2**	**948**	**293**	**1,425**	3.6
	06/07/2010		8.31	0.04	91.72	-	-	-	-	-	-
	09/01/2010		9.36	-	90.64	**89.3**	**86.5**	**1,010**	**405**	**1,591**	**ND < 20**
	12/03/2010		9.13	0.03	90.89	-	-	-	-	-	-
	03/29/2011		8.01	0.17	92.12	-	-	-	-	-	-
	06/16/2011		5.53	0.40	94.77	-	-	-	-	-	-
	08/08/2011		9.06	0.18	91.08	-	-	-	-	-	-
	09/19/2011		7.75	0.38	92.54	-	-	-	-	-	-
	12/05/2011		8.24	0.12	91.85	-	-	-	-	-	-
	03/16/2012		9.32	0.03	90.70	-	-	-	-	-	-
	06/08/2012		8.44	-	91.56	**33.0**	**29.2**	**199**	**147**	**408.2**	ND < 1.00
	09/07/2012		8.81	-	91.19	**33.5**	**20.5**	**270**	**119**	**443**	ND < 1.00
	12/18/2012		8.93	-	91.07	**33.5**	**25.4**	**363**	**203**	**624.9**	ND < 1.00
	03/14/2013		8.71	-	91.29	**42.8**	**38.0**	**378**	**227**	**685.8**	ND < 1.00
	06/24/2013		7.59	-	92.41	**37.5**	**36.0**	**464**	**224**	**761.5**	ND < 1.00
	09/06/2013		8.93	0.08	91.13	-	-	-	-	-	-
	09/26/2013		9.14	0.16	90.98	-	-	-	-	-	-
	10/23/2013		9.41	0.04	90.62	-	-	-	-	-	-
	11/11/2013		9.74	-	90.26	-	-	-	-	-	-
	12/10/2013		9.88	-	90.12	**16.7**	**28.7**	**315**	**211**	**571.4**	ND < 1.00
	01/21/2014		9.09	0.04	90.94	-	-	-	-	-	-
	03/10/2014		-	-	-	**25.1**	**25.1**	**286**	**208**	**544.2**	1.43
	06/03/2014		8.10	-	91.90	**20.0**	**ND < 20.0**	**371**	**200**	**591**	**ND < 20.0**
MW-2	02/28/2005	100.16	8.78	0.01	91.39	-	-	-	-	-	-
	06/06/2005		8.66	0.01	91.51	-	-	-	-	-	-
	09/08/2005		9.87	0.25	90.48	-	-	-	-	-	-
	12/29/2005		8.26	0.01	91.91	-	-	-	-	-	-
	03/20/2006		8.96	0.08	91.26	-	-	-	-	-	-
	06/07/2006		7.73	-	92.43	-	-	-	-	-	-
	09/14/2006		7.90	0.32	92.50	-	-	-	-	-	-
	12/07/2006		8.20	0.40	92.26	-	-	-	-	-	-
	03/29/2007		8.81	0.09	91.42	-	-	-	-	-	-
	06/13/2007		8.15	0.43	92.33	-	-	-	-	-	-
	09/19/2007		9.18	0.50	91.36	-	-	-	-	-	-
	12/11/2007		9.35	0.07	90.86	-	-	-	-	-	-
	03/13/2008		8.77	-	91.39	**204**	**18**	**130**	**109**	**461**	ND < 2
	06/06/2008		9.10	-	91.06	**378**	**25**	**137**	**93.3**	**633.3**	**71**
	12/30/2008		8.56	-	91.60	**305**	**27**	**50**	**84.4**	**466.4**	**37**

1/1/1990 - 6/30/2014

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-2	03/16/2009	100.16	9.71	-	90.45	**246**	**18**	**23**	**53.4**	**340.4**	**67**
(cont)	06/08/2009		8.61	0.08	91.61	-	-	-	-	-	-
	07/20/2009		9.47	1.12	91.53	-	-	-	-	-	-
	09/24/2009		9.06	0.05	91.14	-	-	-	-	-	-
	12/03/2009		9.75	0.70	90.94	-	-	-	-	-	-
	03/03/2010		8.30	0.03	91.88	-	-	-	-	-	-
	06/07/2010		9.07	0.71	91.62	-	-	-	-	-	-
	09/01/2010		9.94	-	90.22	**530**	**22**	**202**	**105**	**859**	**155**
	12/03/2010		9.37	-	90.79	**500**	**52.4**	**336**	**232**	**1,120**	**120**
	03/29/2011		8.74	0.66	91.92	-	-	-	-	-	-
	06/16/2011		9.80	1.50	91.49	-	-	-	-	-	-
	08/08/2011		9.43	0.37	91.01	-	-	-	-	-	-
	09/19/2011		7.81	0.31	92.58	-	-	-	-	-	-
	12/05/2011		9.10	0.68	91.57	-	-	-	-	-	-
	03/16/2012		10.10	0.52	90.45	-	-	-	-	-	-
	06/08/2012		8.75	0.03	91.43	-	-	-	-	-	-
	09/07/2012		8.95	0.04	91.24	-	-	-	-	-	-
	12/18/2012		10.02	0.13	90.24	-	-	-	-	-	-
	03/14/2013		9.65	0.05	90.55	-	-	-	-	-	-
	06/24/2013		8.30	0.35	92.12	-	-	-	-	-	-
	09/06/2013		9.07	0.05	91.13	-	-	-	-	-	-
	10/07/2013		9.34	SHEEN	90.82	-	-	-	-	-	-
	10/23/2013		9.70	0.03	90.48	-	-	-	-	-	-
	11/11/2013		10.05	-	90.11	-	-	-	-	-	-
	12/10/2013		10.08	-	90.08	**258**	**18.5**	**204**	**109**	**589.5**	**39.1**
	01/21/2014		9.33	-	90.83	-	-	-	-	-	-
	03/10/2014		-	-	-	-	-	-	-	-	-
	06/03/2014		8.34	0.06	91.87	-	-	-	-	-	-
MW-3	02/28/2005	100.43	9.32	-	91.11	**120**	**38.5**	**167**	**151**	**476.5**	**13.1**
	06/06/2005		9.21	-	91.22	**37.6**	**22.5**	**135**	**113**	**308.1**	3.5
	09/08/2005		9.67	-	90.76	**86**	**23.5**	**47.9**	**139**	**296.4**	7.8
	12/29/2005		8.50	-	91.93	**11.3**	0.88 J	**28.9**	**15.3**	**56.38**	0.88 J
	03/20/2006		9.98	-	90.45	**218**	**12.1**	**94.6**	**61.9**	**386.6**	**24.7**
	06/07/2006		7.51	-	92.92	**9.9**	2.6	**27.2**	**12.1**	**51.8**	ND < 1
	09/14/2006		7.57	-	92.86	**17.8**	ND < 1	**20.8**	3.9	**42.5**	ND < 1
	12/07/2006		7.90	-	92.53	**10.4**	ND < 1	**15.7**	2	**28.1**	0.51 J
	03/29/2007		8.69	-	91.74	0.94 J	ND < 1	**5.1**	1	**7.04**	ND < 1
	06/13/2007		7.95	-	92.48	**3.6**	ND < 1	**6.8**	0.52 J	**10.92**	ND < 1
	09/19/2007		9.45	-	90.98	**61.8**	1.70	**63.2**	**7.8**	**134.5**	9.5
	12/11/2007		9.75	-	90.68	**71.3**	**12.8**	**101**	**24.8**	**209.9**	7.4
	03/13/2008		8.56	-	91.87	**10.8**	ND < 1	3	0.72 J	**14.52**	ND < 1
	06/06/2008		9.46	-	90.97	**76.1**	**9.5**	**46.5**	**17.9**	**150**	**15**
	12/30/2008		8.49	-	91.94	**5.8**	0.44 J	0.28 J	ND < 1	**6.52**	0.53 J
	03/16/2009		10.02	-	90.41	**113**	**13.5**	**6**	**20.8**	**153.3**	**20.2**
	06/08/2009		8.33	-	92.10	**1.7**	ND < 1	1.4	ND < 1	**3.1**	ND < 1
	07/20/2009		9.39	-	91.04	**92**	4	**10.6**	**13.4**	**120**	**13.2**
	09/24/2009		9.57	-	90.86	**153**	**12.1**	**79.5**	**97.3**	**341.9**	ND < 1
	12/03/2009		9.60	-	90.83	**92.7**	**8.4**	**90.4**	**79.1**	**270.6**	3.1
	03/03/2010		8.18	-	92.25	0.27 J	ND < 1	1.7	1.6	3.57	ND < 1
	06/07/2010		9.18	-	91.25	**3**	0.50 J	**6.8**	3.2	**13.5**	1.2
	09/01/2010		10.66	-	89.77	**49.3**	**28.8**	**164**	**170**	**412.1**	**25.8**
	12/03/2010		9.58	-	90.85	**3.9**	2.7	**30.9**	**26.5**	**64**	ND < 1
	03/29/2011		8.25	-	92.18	ND < 1	ND < 1	0.36 J	0.33 J	0.69	ND < 1
	06/16/2011		8.90	-	91.53	**2.8 J**	2.1 J	**49.5**	**31.2**	**85.6**	ND < 5
	08/08/2011		9.51	-	90.92	**23.1**	**17.4**	**157**	**114**	**311.5**	ND < 1
	03/16/2012		9.97	-	90.46	**25**	**43**	**867**	**386**	**1,321**	ND < 1
	06/08/2012		9.27	-	91.16	**14.9**	**27.0**	**389**	**208**	**638.9**	ND < 1.00
	09/07/2012		9.41	-	91.02	**3.67**	**7.33**	**110**	**83.2**	**204.2**	ND < 1.00

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Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			**1**	**5**	**5**	**5**	**NS**	**10**
MW-3	12/18/2012	100.43	9.51	-	90.92	**19.2**	**31.6**	**378**	**278**	**706.8**	ND < 1.00
(cont)	03/14/2013		9.47	-	90.96	**15.7**	**36.7**	**319**	**277**	**648.4**	1.42
	06/24/2013		8.07	-	92.36	ND < 1.00	3.05	**63.9**	**68.2**	**135.15**	ND < 1.00
	09/04/2013		9.72	-	90.71	**7.74**	**14.1**	**127**	**113**	**261.84**	6.86
	09/06/2013		9.76	-	90.67	**7.74**	**14.1**	**127**	**113**	**261.84**	6.86
	11/11/2013		10.85	-	89.58	-	-	-	-	-	-
	12/10/2013		10.55	-	89.88	**4.18**	**18.5**	**222**	**211**	**455.68**	ND < 1.00
	01/21/2014		9.78	-	90.65	-	-	-	-	-	-
	03/10/2014		-	-	-	**1.60**	**5.32**	**75.7**	**118**	**200.62**	1.26
	06/03/2014		8.56	-	91.87	ND < 1.00	1.26	**28.3**	**43.2**	**72.76**	ND < 1.00
MW-4	02/28/2005	100.05	9.02	-	91.03	**50**	2.6	**11**	**25**	**88.6**	ND < 1
	06/06/2005		9.18	-	90.87	**4.6**	ND < 1	0.49 J	ND < 1	**5.09**	ND < 1
	12/29/2005		8.54	-	91.51	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/20/2006		9.16	-	90.89	**9.1**	ND < 1	0.62 J	0.59 J	**10.31**	ND < 1
	06/07/2006		8.00	-	92.05	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	09/14/2006		WELL DESTROYED	-	-	-	-	-	-	-	-
MW-5	02/28/2005	101.15	8.47	-	92.68	0.86 J	ND < 1	1.6	**8.1**	**10.56**	3.1
	06/06/2005		8.73	-	92.42	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	09/08/2005		-	-	-	ND < 1	ND < 1	4.7	**7.3**	**12**	ND < 1
	12/29/2005		7.95	-	93.20	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/20/2006		8.63	-	92.52	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/07/2006		8.12	-	93.03	ND < 1	ND < 1	ND < 1	0.65 J	0.65	ND < 1
	12/07/2006		7.97	-	93.18	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/29/2007		8.10	-	93.05	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/13/2007		7.68	-	93.47	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	09/19/2007		8.96	-	92.19	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/11/2007		9.20	-	91.95	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/13/2008		8.56	-	92.59	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/06/2008		8.85	-	92.30	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/30/2008		8.09	-	93.06	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/16/2009		9.41	-	91.74	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/08/2009		8.40	-	92.75	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	07/20/2009		8.63	-	92.52	-	-	-	-	-	-
	09/24/2009		9.29	-	91.86	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/03/2009		9.00	-	92.15	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/03/2010		7.74	-	93.41	ND < 1	ND < 1	ND < 1	0.35 J	0.35	ND < 1
	06/07/2010		8.73	-	92.42	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	09/01/2010		9.61	-	91.54	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/03/2010		9.40	-	91.75	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	0.35 J
	03/29/2011		7.91	-	93.24	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/16/2011		8.60	-	92.55	ND < 1	ND < 1	ND < 1	0.25 J	0.25	ND < 1
	08/08/2011		9.17	-	91.98	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	1.3
	09/19/2011		7.64	-	93.51	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/05/2011		8.40	-	92.75	ND < 0.22	ND < 0.15	ND < 0.21	ND < 0.17	ND < 0.75	ND < 0.18
	03/16/2012		9.37	-	91.78	ND < 1	ND < 1	ND < 1	ND < 3	ND < 6	ND < 1
	06/08/2012		8.60	-	92.55	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	09/07/2012		9.19	-	91.96	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	12/18/2012		9.01	-	92.14	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	03/14/2013		8.42	-	92.73	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	06/24/2013		8.16	-	92.99	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	09/04/2013		9.21	-	91.94	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND < 5.00	ND < 1.00
	09/06/2013		9.22	-	91.93	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND < 5.00	ND < 1.00
	12/10/2013		9.68	-	91.47	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 6.00	ND < 1.00
	06/03/2014		8.52	-	92.63	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND < 5.00	ND < 1.00
MW-6A	02/28/2005	101.17	8.29	-	92.88	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/06/2005		WELL DESTROYED	-	-	-	-	-	-	-	-

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-7A	02/28/2005	101.24	9.67	-	91.57	**151**	3.8	3	**8.8**	**166.6**	2.5
(cont)	06/06/2005		9.59	-	91.65	**13**	ND < 1	ND < 1	ND < 1	**13**	ND < 1
	12/29/2005		9.27	-	91.97	**105**	1	**5.2**	4	**115.2**	3.2
	03/20/2006		9.57	-	91.67	**9.4**	ND < 1	ND < 1	0.46 J	**9.86**	0.51 J
	06/07/2006		8.72	-	92.52	**328**	**9.2**	**20**	**49**	**406.2**	1.8
	09/14/2006		8.52	-	92.72	**4.7**	ND < 1	0.35 J	ND < 1	**5.05**	ND < 1
	12/07/2006		8.75	-	92.49	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/29/2007		9.48	-	91.76	**291**	**6**	**8.2**	**17**	**322.2**	ND < 1
	06/13/2007		8.56	-	92.68	**448**	**18**	**28**	**53**	**547**	2.4
	09/19/2007		9.55	-	91.69	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/11/2007		10.27	-	90.97	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	2.3
	03/13/2008		9.56	-	91.68	**202**	3.7	**8.4**	**10**	**224.1**	ND < 2.0
	06/06/2008		9.74	-	91.50	**4.5**	ND < 1	ND < 1	ND < 1	**4.5**	0.31 J
	12/30/2008		9.53	-	91.71	**335**	4.6	3.4	**21**	**364**	1.9
	03/16/2009		10.58	-	90.66	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	06/08/2009		9.52	-	91.72	**30**	ND < 1	ND < 1	ND < 1	**30**	ND < 1
	07/20/2009		8.98	-	92.26	1	ND < 1	ND < 1	ND < 1	1	0.48 J
	09/24/2009		10.07	-	91.17	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/03/2009		10.11	-	91.13	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	0.52 J
	03/03/2010		9.41	-	91.83	**145**	2.9	**5.5**	**5.6**	**159**	1.2
	06/07/2010		9.36	-	91.88	0.36 J	ND < 1	ND < 1	ND < 1	0.36	ND < 1
	09/01/2010		10.50	-	90.74	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	12/03/2010		10.31	-	90.93	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	ND < 1
	03/29/2011		8.87	-	92.37	**1.7**	ND < 1	ND < 1	ND < 1	**1.7**	ND < 1
	06/16/2011		9.55	0.25	91.88	-	-	-	-	-	-
	08/08/2011		9.99	0.01	91.26	-	-	-	-	-	-
	09/19/2011		INACCESSIBLE	-	-	-	-	-	-	-	-
	03/16/2012		10.48	-	90.76	**107**	1.31	3.55	ND < 3	**111.86**	1.09
	06/08/2012		9.76	-	91.48	**143**	4.03	**25.3**	**7.23**	**179.56**	1.12
	09/07/2012		10.02	-	91.22	**14.4**	ND < 1.00	ND < 1.00	ND < 3.00	**14.4**	ND < 1.00
	12/18/2012		10.13	-	91.11	**12.9**	ND < 1.00	ND < 1.00	ND < 3.00	**12.9**	ND < 1.00
	03/14/2013		9.85	-	91.39	**88.8**	1.84	**12.4**	**8.73**	**111.77**	ND < 1.00
	06/24/2013		8.76	-	92.48	**45.8**	ND < 1.00	3.81	ND < 3.00	**49.61**	ND < 1.00
	09/04/2013		9.96	0.05	91.32	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND < 5.00	ND < 1.00
	09/06/2013		10.05	0.06	91.24	ND < 1.00	ND < 1.00	ND < 1.00	ND < 2.00	ND < 5.00	ND < 1.00
	12/10/2013		CNL	-	-	-	-	-	-	-	-
	01/21/2014		CNL	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**9.00**	ND < 1.00	ND < 1.00	ND < 3.00	**9**	ND < 1.00
	06/03/2014		9.21	-	92.03	**2.07**	ND < 1.00	ND < 1.00	ND < 2.00	**2.07**	ND < 1.00
MW-8A	02/28/2005	100.59	10.02	-	90.57	**1,430**	**369**	**1,020**	**3,180**	**5,999**	**4,720**
	06/06/2005		9.48	-	91.11	**1,660**	**391**	**1,150**	**3,960**	**7,161**	**3,980**
	09/08/2005		10.02	-	90.57	**2,030**	**447**	**1,200**	**3,880**	**7,557**	**3,640**
	12/29/2005		9.18	-	91.41	**434**	**49.3**	**216**	**675**	**1,374**	**250**
	03/20/2006		9.87	-	90.72	**2,060**	**467**	**1,220**	**4,040**	**7,787**	**4,730**
	09/14/2006		8.74	-	91.85	**2,170**	**510**	**1,380**	**4,320**	**8,380**	**2,370**
	12/07/2006		8.62	-	91.97	**1,660**	**430**	**1,350**	**4,570**	**8,010**	**1,980**
	03/29/2007		9.52	-	91.07	**1,420**	**341**	**908**	**2,370**	**5,039**	**2,960**
	06/13/2007		8.55	-	92.04	**444**	**155**	**694**	**1,770**	**3,063**	**380**
	09/19/2007		9.36	-	91.23	**1,090**	**267**	**915**	**2,570**	**4,842**	**1,160**
	12/11/2007		10.13	-	90.46	**1,530**	**305**	**1,090**	**3,420**	**6,345**	**1,570**
	03/13/2008		9.69	-	90.90	**1,580**	**315**	**1,140**	**3,430**	**6,465**	**1,850**
	06/06/2008		9.35	-	91.24	**1,230**	**280**	**1,070**	**2,610**	**5,190**	**806**
	12/30/2008		9.17	-	91.42	**82.5**	**21.3**	**131**	**237**	**471.8**	**22.6**
	06/08/2009		9.18	-	91.41	**292**	**64.9**	**348**	**616**	**1,321**	**129**
	07/20/2009		9.10	-	91.49	**292**	**72.8**	**324**	**525**	**1,214**	**149**
	09/24/2009		10.79	-	89.80	**984**	**223**	**909**	**2,320**	**4,436**	**542**
	12/03/2009		9.75	-	90.84	**1,030**	**235**	**1,060**	**2,240**	**4,565**	**452**
	03/03/2010		9.25	-	91.34	**691**	**177**	**762**	**2,070**	**3,700**	**185**

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-8A	06/07/2010	100.59	9.17	-	91.42	**1,020**	**213**	**869**	**2,060**	**4,162**	**766**
(cont)	09/01/2010		10.18	-	90.41	**1,520**	**291**	**1,070**	**3,030**	**5,911**	**939**
	12/03/2010		10.00	-	90.59	**942**	**253**	**745**	**1,900**	**3,840**	**555**
	03/29/2011		9.46	-	91.13	**1,070**	**227**	**831**	**1,860**	**3,988**	**418**
	09/19/2011		8.26	-	92.33	**779**	**157**	**533**	**1,060**	**2,529**	**298**
	12/05/2011		9.20	-	91.39	**1,540**	**222**	**682**	**1,530**	**3,974**	**637**
	03/16/2012		10.07	-	90.52	**2,220**	**386**	**1,410**	**5,250**	**9,266**	**1,100**
	06/08/2012		9.84	-	90.75	**808**	**111**	**434**	**1,200**	**2,553**	**983**
	09/07/2012		10.00	-	90.59	**985**	**154**	**341**	**953**	**2,433**	**376**
	12/18/2012		10.78	-	89.81	**1,300**	**231**	**496**	**2,200**	**4,227**	**336**
	03/14/2013		11.08	-	89.51	**1,160**	**188**	**551**	**2,360**	**4,259**	**330**
	06/24/2013		9.31	-	91.28	**991**	**155**	**482**	**1,930**	**3,558**	**157**
	09/06/2013		10.82	-	89.77	**1,670**	**306**	**1,250**	**3,790**	**7,016**	**337**
	12/10/2013		11.44	-	89.15	**1,370**	**226**	**742**	**3,210**	**5,548**	**333**
	01/21/2014		CNL	-	-	-	-	-	-	-	-
	03/10/2014		CNL	-	-	**1,860**	**299**	**989**	**3,320**	**6,468**	**390**
	06/03/2014		10.68	-	89.91	**1,400**	**251**	**361**	**909**	**2,921**	**278**
MW-9	02/28/2005	100.10	9.45	-	90.65	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	1.8
	06/06/2005		9.38	-	90.72	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	1.1
	09/08/2005		10.01	-	90.09	ND < 1	ND < 1	0.73 J	2	2.73	7.3
	12/29/2005		8.88	-	91.22	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	**16.7**
	03/20/2006		9.65	-	90.45	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	9.8
	09/14/2006		8.93	-	91.17	0.93 J	ND < 1	0.43 J	1.1	2.46	**20.8**
	12/07/2006		8.72	-	91.38	0.88 J	0.72 J	ND < 1	3.6	5.2	**45**
	03/29/2007		9.09	-	91.01	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	**46.8**
	06/13/2007		8.64	-	91.46	**4.9**	1.7	ND < 1	**6.4**	**13**	**60**
	09/19/2007		9.39	-	90.71	0.35 J	ND < 1	ND < 1	0.97 J	1.32	**19.2**
	12/11/2007		9.80	-	90.30	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	**15.7**
	03/13/2008		8.98	-	91.12	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	6.5
	06/06/2008		9.19	-	90.91	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	6.2
	12/30/2008		8.75	-	91.35	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	2.6
	07/20/2009		9.10	-	91.00	-	-	-	-	-	-
	09/24/2009		9.71	-	90.39	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	2.6
	12/03/2009		9.62	-	90.48	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	4.6
	03/03/2010		8.47	-	91.63	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	0.32 J
	06/07/2010		9.24	-	90.86	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	2.9
	09/01/2010		10.11	-	89.99	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	6.7
	12/03/2010		9.90	-	90.20	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	6.7
	03/29/2011		9.04	-	91.06	ND < 1	ND < 1	ND < 1	ND < 1	ND < 4	1.5
	12/05/2011		9.20	-	90.90	ND < 0.22	ND < 0.15	ND < 0.21	0.17	0.17	**10.1**
	03/16/2012		10.33	-	89.77	ND < 1	ND < 1	ND < 1	ND < 3	ND < 6	9.21
	06/08/2012		9.44	-	90.66	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 3.00	**12.6**
	09/07/2012		9.79	-	90.31	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	ND < 3.00	**11.0**
	12/18/2012		CNL	-	-	-	-	-	-	-	-
	03/14/2013		CNL	-	-	-	-	-	-	-	-
	06/24/2013		CNL	-	-	-	-	-	-	-	-
	09/06/2013		CNL	-	-	-	-	-	-	-	-
	12/10/2013		CNL	-	-	-	-	-	-	-	-
	01/21/2014		CNL	-	-	-	-	-	-	-	-
	03/10/2014		CNL	-	-	-	-	-	-	-	-
	06/03/2014		CNL	-	-	-	-	-	-	-	-
MW-10	02/28/2005	100.50	9.94	-	90.56	**5,040**	**763**	**1,520**	**7,160**	**14,483**	**10,300**
	06/06/2005		9.03	-	91.47	**823**	**97.6**	**298**	**1,390**	**2,609**	**1,560**
	09/08/2005		9.90	-	90.60	**2,780**	**331**	**1,000**	**3,840**	**7,951**	**5,030**
	12/29/2005		8.90	-	91.60	**754**	**192**	**942**	**1,900**	**3,788**	**833**
	03/20/2006		9.54	-	90.96	**6,220**	**803**	**1,640**	**6,970**	**15,633**	**10,500**
	06/07/2006		9.01	-	91.49	**4,580**	**459**	**1,150**	**4,290**	**10,479**	**6,210**
	09/14/2006		8.58	-	91.92	**4,900**	**625**	**1,520**	**5,930**	**12,975**	**6,740**

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-10	12/07/2006	100.50	8.52	-	91.98	**3,070**	**504**	**2,030**	**7,360**	**12,964**	**1,410**
(cont)	03/29/2007		9.40	-	91.10	**7,050**	**1,180**	**3,550**	**11,900**	**23,680**	**6,820**
	06/13/2007		8.42	-	92.08	**1,450**	**231**	**909**	**2,980**	**5,570**	**466**
	09/19/2007		9.22	-	91.28	**3,380**	**445**	**1,400**	**4,500**	**9,725**	**1,310**
	12/11/2007		11.03	-	89.47	**3,030**	**411**	**1,360**	**4,010**	**8,811**	**1,750**
	03/13/2008		9.56	-	90.94	**4,270**	**530**	**1,520**	**5,160**	**11,480**	**2,470**
	06/06/2008		9.25	-	91.25	**3,080**	**414**	**1,510**	**4,450**	**9,454**	**1,260**
	12/30/2008		9.05	-	91.45	**903**	**115**	**649**	**1,500**	**3,167**	**213**
	06/08/2009		8.97	-	91.53	**1,110**	**143**	**658**	**1,440**	**3,351**	**166**
	07/20/2009		8.98	-	91.52	**1,050**	**157**	**593**	**1,250**	**3,050**	**97.1**
	09/24/2009		9.59	-	90.91	**2,390**	**374**	**1,490**	**3,210**	**7,464**	**315**
	12/03/2009		9.55	-	90.95	**3,380**	**673**	**3,900**	**3,990**	**11,943**	**698**
	03/03/2010		9.25	-	91.25	**3,450**	**440**	**1,400**	**3,440**	**8,730**	**1,810**
	06/07/2010		9.02	-	91.48	**3,210**	**403**	**1,260**	**2,760**	**7,633**	**1,380**
	09/01/2010		10.00	-	90.50	**4,870**	**485**	**1,830**	**4,040**	**11,225**	**1,580**
	12/03/2010		9.80	-	90.70	**3,950**	**496**	**1,510**	**3,180**	**9,136**	ND < 10
	03/29/2011		9.35	-	91.15	**5,450**	**594**	**1,550**	**3,700**	**11,294**	**1,640**
	06/16/2011		8.80	-	91.70	**5,410**	**555**	**1,450**	**3,580**	**10,995**	**1,160**
	08/08/2011		9.72	-	90.78	**6,180**	**645**	**1,450**	**3,460**	**11,735**	**1,030**
	09/19/2011		8.19	-	92.31	**1,810**	**162**	**497**	**957**	**3,426**	**191**
	12/05/2011		9.00	-	91.50	**3,790**	**443**	**1,910**	**3,860**	**10,003**	**610**
	03/16/2012		10.51	-	89.99	**5,350**	**744**	**2,220**	**5,690**	**14,004**	**1,210**
	06/08/2012		9.47	-	91.03	**3,780**	**343**	**859**	**1,720**	**6,702**	**860**
	09/07/2012		10.04	-	90.46	**3,930**	**334**	**738**	**2,290**	**7,292**	**777**
	12/18/2012		10.83	-	89.67	**5,460**	**623**	**1,170**	**3,340**	**10,593**	**708**
	03/14/2013		10.99	-	89.51	**5,030**	**469**	**1,280**	**3,010**	**9,789**	**712**
	06/24/2013		8.51	-	91.99	**2,680**	**330**	**927**	**2,900**	**6,837**	**137**
	09/06/2013		10.66	-	89.84	**5,290**	**524**	**1,360**	**3,150**	**10,324**	**383**
	12/10/2013		11.36	-	89.14	**6,080**	**560**	**1,410**	**4,520**	**12,570**	**464**
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**6,990**	**680**	**1,770**	**5,550**	**14,990**	**657**
	06/03/2014		9.71	-	90.79	**3,400**	**455**	**1,250**	**3,700**	**8,805**	**476**
MW-11	02/28/2005	99.62	8.14	-	91.48	**619**	**576**	**1,050**	**4,270**	**6,515**	**77**
	06/06/2005		8.07	-	91.55	**616**	**410**	**1,070**	**5,050**	**7,146**	**71**
	09/08/2005		8.81	0.03	90.83	-	-	-	-	-	-
	12/29/2005		11.63	-	87.99	**697**	**249**	**1,170**	**3,630**	**5,746**	**57**
	03/20/2006		8.13	-	91.49	**625**	**294**	**1,070**	**4,130**	**6,119**	**39**
	06/07/2006		7.45	-	92.17	-	-	-	-	-	-
	09/14/2006		7.13	0.02	92.51	-	-	-	-	-	-
	12/07/2006		7.30	0.02	92.34	-	-	-	-	-	-
	03/29/2007		7.94	-	91.68	**531**	**199**	**1,030**	**1,580**	**3,340**	ND < 10
	06/13/2007		7.18	-	92.44	**438**	**125**	**738**	**935**	**2,236**	**32**
	09/19/2007		8.11	-	91.51	**718**	**231**	**1,050**	**1,800**	**3,799**	**36**
	12/11/2007		8.70	0.02	90.94	-	-	-	-	-	-
	03/13/2008		8.20	-	91.42	**336**	**153**	**860**	**1,530**	**2,879**	ND < 5
	06/06/2008		8.17	-	91.45	**617**	**194**	**954**	**1,410**	**3,175**	**37**
	12/30/2008		7.91	-	91.71	**473**	**185**	**990**	**1,730**	**3,378**	**23.9**
	03/16/2009		9.06	-	90.56	**423**	**192**	**770**	**1,610**	**2,995**	**20.9**
	06/08/2009		7.87	-	91.75	**575**	**209**	**1,110**	**2,330**	**4,224**	**27.4**
	07/20/2009		7.93	0.08	91.75	-	-	-	-	-	-
	09/24/2009		8.59	0.05	91.07	-	-	-	-	-	-
	12/03/2009		8.51	-	91.11	**797**	**142**	**1,280**	**1,020**	**3,239**	**46.9**
	03/03/2010		7.66	-	91.96	**518**	**110**	**1,060**	**1,010**	**2,698**	**23.4**
	06/07/2010		7.94	-	91.68	**382**	**33.1**	**901**	**498**	**1,814**	**23.1**
	09/01/2010		8.98	-	90.64	**510**	**131**	**1,300**	**1,620**	**3,561**	**ND < 100**
	12/03/2010		8.71	-	90.91	**513**	**206**	**911**	**1,560**	**3,190**	**11.3**
	03/29/2011		7.45	-	92.17	**68.3**	**7.60**	**199**	**234**	**508.9**	3.20
	06/16/2011		7.71	-	91.91	**148**	**23.3**	**293**	**315**	**779.3**	2.80

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-11	08/08/2011	99.62	8.54	-	91.08	**308**	**48.5**	**380**	**385**	**1,122**	7.90
(cont)	09/19/2011		6.98	-	92.64	**57**	**12.3**	**162**	**171**	**402.3**	1.40
	12/05/2011		7.81	-	91.81	**144**	**52**	**304**	**455**	**955**	4
	03/16/2012		8.98	-	90.64	**637**	**149**	**794**	**1,580**	**3,160**	**12**
	06/08/2012		8.14	-	91.48	**492**	**161**	**611**	**1,090**	**2,354**	9.70
	09/07/2012		8.18	-	91.44	**604**	**164**	**699**	**1,240**	**2,707**	7.61
	12/18/2012		8.61	-	91.01	**587**	**184**	**702**	**1,320**	**2,793**	7.11
	03/14/2013		8.40	-	91.22	**487**	**150**	**608**	**934**	**2,179**	7.78
	06/24/2013		7.27	-	92.35	**403**	**113**	**495**	**447**	**1,458**	3.98
	09/04/2013		8.50	-	91.12	**513**	**147**	**947**	**1,230**	**2,837**	3.54
	09/06/2013		8.56	-	91.06	**513**	**147**	**947**	**1,230**	**2,837**	3.54
	10/07/2013		8.76	SHEEN	90.86	-	-	-	-	-	-
	10/23/2013		9.03	-	90.59	-	-	-	-	-	-
	11/11/2013		9.42	-	90.20	-	-	-	-	-	-
	12/10/2013		9.92	-	89.70	**490**	**107**	**561**	**869**	**2,027**	2.93
	01/21/2014		8.65	-	90.97	-	-	-	-	-	-
	03/10/2014		-	-	-	**435**	**86.0**	**521**	**801**	**1,843**	3.54
	06/03/2014		7.71	-	91.91	**218**	**70.6**	**287**	**468**	**1,044**	3.16
MW-12	02/28/2005	100.85	9.38	-	91.47	**127**	**6.6**	**50**	**57**	**240.6**	**24.8**
	06/06/2005		9.17	-	91.68	**250**	**8.2**	**29.2**	**51.4**	**338.8**	**129**
	03/20/2006		9.17	-	91.68	**229**	**9**	**35.5**	**50.2**	**323.7**	**26.6**
	06/07/2006		8.68	-	92.17	**470**	**17.4**	**81.1**	**86.8**	**655.3**	**96.7**
	09/14/2006		8.13	-	92.72	**476**	**14**	**42.9**	**63.2**	**596.1**	**55**
	12/07/2006		8.37	-	92.48	**225**	**7.3**	**5.1**	**22.5**	**259.9**	**29.4**
	03/29/2007		9.16	-	91.69	**193**	3.7	4	**12.5**	**213.2**	**44.3**
	06/13/2007		8.28	-	92.57	**274**	**8.3**	**5.8**	**24.7**	**312.8**	**86.5**
	09/19/2007		9.16	-	91.69	**285**	**6.2**	4.2	**20.5**	**315.9**	**33**
	12/11/2007		9.90	-	90.95	**249**	5	4.2	**17.6**	**275.8**	**31.6**
	03/13/2008		9.21	-	91.64	**172**	3.6	**11**	**14.4**	**201**	ND < 1
	06/06/2008		9.33	-	91.52	**134**	4.4	**8.5**	**15.8**	**162.7**	**20.6**
	12/30/2008		9.22	-	91.63	**603**	**12.3**	**115**	**53.9**	**784.2**	**41**
	03/16/2009		10.21	-	90.64	**144**	3.2	**32.2**	**17.7**	**197.1**	**12.9**
	06/08/2009		9.16	-	91.69	**474**	**8.6**	**69.2**	**33.5**	**585.3**	**147**
	07/20/2009		9.38	-	91.47	**14.5**	0.56 J	**15.2**	2.4	**32.66**	**41.9**
	09/24/2009		9.71	-	91.14	**54.8**	3.1	**37.8**	**21.4**	**117.1**	**113**
	12/03/2009		9.75	-	91.10	**120**	3.9	**52.7**	**28.5**	**205.1**	**88.4**
	03/03/2010		9.15	-	91.70	**148**	3.6	**23.1**	**16.1**	**190.8**	**41.4**
	06/07/2010		8.97	-	91.88	**22.9**	1.1	**8.4**	**7.2**	**39.6**	8.6
	09/01/2010		10.22	-	90.63	**111**	2.4	**10.7**	**11.6**	**135.7**	**23**
	12/03/2010		10.00	-	90.85	**87**	1.6	**7.5**	**7**	**103.1**	**20.3**
	03/29/2011		8.53	-	92.32	**2.1**	ND < 1	0.34 J	0.32 J	**2.76**	6.7
	06/16/2011		8.90	-	91.95	**3.5**	0.36 J	0.72 J	1.3	**5.88**	8.9
	08/08/2011		9.70	-	91.15	**24**	1.4	3.5	**6.6**	**35.5**	**32.5**
	09/19/2011		8.39	-	92.46	**2.8**	0.35 J	2.4	3.2	**8.75**	ND < 1
	03/16/2012		10.17	-	90.68	**27**	1.05	**8.41**	4.22	**40.68**	**24**
	06/08/2012		9.42	-	91.43	**30.2**	ND < 1.00	4.87	ND < 3.00	**35.07**	**24.3**
	09/07/2012		9.66	-	91.19	**38.2**	ND < 1.00	4.92	ND < 3.00	**43.12**	ND < 1.00
	12/18/2012		9.98	-	90.87	**50.5**	1.02	**5.07**	ND < 3.00	**56.59**	**13.4**
	03/14/2013		9.58	-	91.27	**35.3**	ND < 1.00	**5.36**	ND < 3.00	**40.66**	**13.5**
	06/24/2013		8.36	-	92.49	**2.76**	ND < 1.00	ND < 1.00	ND < 3.00	**2.76**	2.48
	09/04/2013		9.58	-	91.27	**15.5**	ND < 1.00	3.19	ND < 2.00	**18.69**	7.88
	09/06/2013		9.65	-	91.20	**15.5**	ND < 1.00	3.19	ND < 2.00	**18.69**	7.88
	10/07/2013		9.98	SHEEN	90.87	-	-	-	-	-	-
	12/10/2013		10.67	-	90.18	**34.4**	ND < 1.00	1.45	ND < 3.00	**35.85**	**12.1**
	01/21/2014		INACCESSIBLE	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**5.71**	ND < 1.00	ND < 1.00	ND < 3.00	**5.71**	ND < 1.00
	06/03/2014		8.81	-	92.04	**2.19**	ND < 1.00	ND < 1.00	ND < 2.00	**2.19**	1.59
MW-13	02/28/2005	100.04	8.83	2.17	92.84	-	-	-	-	-	-

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-13	06/06/2005	100.04	8.54	0.01	91.51	-	-	-	-	-	-
(cont)	09/08/2005		9.37	0.21	90.83	-	-	-	-	-	-
	12/29/2005		8.65	0.01	91.40	-	-	-	-	-	-
	03/20/2006		6.67	0.01	93.38	-	-	-	-	-	-
	06/07/2006		7.61	-	92.43	-	-	-	-	-	-
	09/14/2006		7.34	0.02	92.72	-	-	-	-	-	-
	12/07/2006		7.71	0.15	92.44	-	-	-	-	-	-
	03/29/2007		8.53	-	91.51	**76.5**	ND < 5	ND < 5	ND < 5	**76.5**	9.3
	06/13/2007		7.55	-	92.49	**56.1**	2.6	**172**	**56.9**	**287.6**	**11**
	09/19/2007		8.53	0.02	91.53	-	-	-	-	-	-
	12/11/2007		9.30	0.02	90.76	-	-	-	-	-	-
	03/13/2008		8.58	-	91.46	**179**	**6.1**	**303**	**74.7**	**562.8**	**13.3**
	06/06/2008		8.70	-	91.34	**245**	**10.2**	**354**	**95.8**	**705**	**20.8**
	12/30/2008		8.37	-	91.67	**226**	**20.3**	**394**	**136**	**776.3**	**12.3**
	03/16/2009		9.76	-	90.28	**270**	**22.8**	**423**	**135**	**850.8**	**11.9**
	06/08/2009		8.24	-	91.80	**68.6**	**6.2**	**129**	**36.8**	**240.6**	**11.7**
	07/20/2009		8.31	-	91.73	**39**	**7.9**	**300**	**88.6**	**435.5**	**15.9**
	09/24/2009		9.01	-	91.03	**115**	4.1	**295**	**44.1**	**458.2**	**10.8**
	12/03/2009		8.96	-	91.08	**219**	**7**	**295**	**53**	**574**	**13.6**
	03/03/2010		7.90	-	92.14	**31.8**	2.3	**109**	**18.5**	**161.6**	4.8
	06/07/2010		8.33	-	91.71	**21.2**	1.7	**149**	**19.9**	**191.8**	**18.6**
	09/01/2010		9.44	-	90.60	**541**	**120**	**884**	**1,490**	**3,035**	**16.9**
	12/03/2010		9.13	-	90.91	**321**	**114**	**685**	**1,240**	**2,360**	ND < 5
	03/29/2011		7.90	-	92.14	**6**	ND < 1	**8.7**	**5.2**	**19.9**	3
	06/16/2011		5.30	-	94.74	**31.5**	2	**62**	**34.4**	**129.9**	**10.5**
	08/08/2011		9.04	-	91.00	**212**	**40.6**	**260**	**284**	**796.6**	3.1
	09/19/2011		7.36	-	92.68	**12.3**	2	**174**	**57.5**	**245.8**	1.3
	12/05/2011		8.25	-	91.79	**20**	1.8	**110**	**44**	**175.8**	3.4
	03/16/2012		9.44	-	90.60	**194**	**56**	**505**	**294**	**1,049**	1.71
	06/08/2012		8.62	-	91.42	**135**	**38.6**	**331**	**235**	**739.6**	2.74
	09/07/2012		8.92	-	91.12	**178**	**39.2**	**421**	**237**	**875.2**	ND < 1.00
	12/18/2012		9.09	-	90.95	**308**	**84.5**	**663**	**452**	**1,508**	2.82
	03/14/2013		8.92	-	91.12	**586**	**114**	**590**	**948**	**2,238**	6.10
	06/24/2013		7.74	-	92.30	**117**	**38.6**	**544**	**399**	**1,099**	2.43
	09/04/2013		8.94	0.03	91.12	-	-	-	-	-	-
	09/06/2013		9.06	0.17	91.11	-	-	-	-	-	-
	09/26/2013		9.16	0.01	90.89	**395**	**77.9**	**515**	**458**	**1,446**	3.87
	10/07/2013		9.21	SHEEN	90.83	-	-	-	-	-	-
	10/23/2013		9.45	-	90.59	-	-	-	-	-	-
	11/11/2013		9.86	-	90.18	-	-	-	-	-	-
	12/10/2013		10.02	-	90.02	**767**	**126**	**744**	**1,240**	**2,877**	**13.7**
	01/21/2014		9.19	-	90.85	-	-	-	-	-	-
	03/10/2014		-	-	-	**250**	**53.8**	**294**	**461**	**1,059**	2.51
	06/03/2014		8.26	-	91.78	**92.1**	**29.0**	**235**	**383**	**739.1**	1.52
MW-14	02/28/2005		12.87	-	87.17	**4.2**	0.61 J	1.7	**6.7**	**13.21**	2.5
	06/06/2005		13.02	-	87.02	**12.6**	1	2.4	**9.3**	**25.3**	ND < 1
	03/20/2006		13.03	0.50	87.39	-	-	-	-	-	-
	06/07/2006		8.19	0.07	91.90	-	-	-	-	-	-
	12/07/2006		13.30	4.75	90.30	-	-	-	-	-	-
	03/29/2007		10.52	-	89.52	**118**	4.8	1.4	**11.3**	**135.5**	ND < 1
	06/13/2007		8.38	-	91.66	**125**	**5.6**	**5.4**	**41.1**	**177.1**	ND < 1
	09/19/2007		10.08	-	89.96	**121**	5	4.1	**31.3**	**161.4**	ND < 1
	12/11/2007		10.95	0.05	89.13	-	-	-	-	-	-
	03/13/2008		9.73	-	90.31	**66.7**	2.7	0.76 J	4.6	**74.76**	ND < 1
	06/06/2008		10.05	-	89.99	**95.5**	3.6	1.3	**5.8**	**106.2**	ND < 1
	12/30/2008		9.59	-	90.45	**85.3**	2.5	0.51 J	2.1	**90.41**	ND < 1
	03/16/2009		10.44	-	89.60	**101**	4.1	0.77 J	4.3	**110.17**	ND < 1
	06/08/2009		9.46	-	90.58	**54.8**	2.3	1.2	4.2	**62.5**	ND < 1

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304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-14	07/20/2009	100.04	9.30	-	90.74	**51.6**	1.3	0.58 J	2.3	**55.78**	ND < 1
(cont)	09/24/2009		10.00	-	90.04	**102**	3.8	0.90 J	**5.9**	**112.6**	ND < 1
	12/03/2009		9.81	-	90.23	**147**	4.3	1.1	4.6	**157**	ND < 1
	03/03/2010		8.90	-	91.14	**13.5**	ND < 1	ND < 1	ND < 1	**13.5**	ND < 1
	06/07/2010		9.31	-	90.73	**50.3**	0.95 J	0.32 J	1.2	**52.77**	ND < 1
	09/01/2010		10.36	-	89.68	**139**	3.4	1.2	3.7	**147.3**	ND < 1
	12/03/2010		10.11	-	89.93	**114**	4	0.86 J	3.2	**122.06**	ND < 1
	03/29/2011		8.60	-	91.44	**12.7**	ND < 1	ND < 1	ND < 1	**12.7**	ND < 1
	06/16/2011		9.20	-	90.84	**41.4**	0.55 J	0.27 J	0.53 J	**42.75**	ND < 1
	08/08/2011		9.87	-	90.17	**84.1**	0.77 J	ND < 1	ND < 1	**84.87**	ND < 1
	09/19/2011		8.22	-	91.82	**3.8**	ND < 1	ND < 1	ND < 1	**3.8**	ND < 1
	12/05/2011		9.19	-	90.85	**64**	0.39	0.22	0.60	**65.21**	ND < 0.18
	03/16/2012		10.36	-	89.68	**91**	1.28	ND < 1	ND < 3	**92.28**	ND < 1
	06/08/2012		9.62	-	90.42	**74.8**	ND < 1.00	ND < 1.00	ND < 3.00	**74.8**	ND < 1.00
	09/07/2012		9.82	-	90.22	**117**	1.96	ND < 1.00	ND < 3.00	**118.96**	ND < 1.00
	12/18/2012		9.84	-	90.20	**70.8**	1.60	ND < 1.00	ND < 3.00	**72.4**	ND < 1.00
	03/14/2013		10.43	-	89.61	**20.2**	ND < 1.00	ND < 1.00	ND < 3.00	**20.2**	ND < 1.00
	06/24/2013		8.50	-	91.54	**7.68**	ND < 1.00	ND < 1.00	ND < 3.00	**7.68**	ND < 1.00
	09/04/2013		9.77	-	90.27	**44.2**	ND < 1.00	ND < 1.00	ND < 2.00	**44.2**	ND < 1.00
	09/06/2013		9.85	-	90.19	**44.2**	ND < 1.00	ND < 1.00	ND < 2.00	**44.2**	ND < 1.00
	12/10/2013		10.56	-	89.48	**51.9**	ND < 1.00	ND < 1.00	ND < 3.00	**51.9**	ND < 1.00
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**8.32**	ND < 1.00	ND < 1.00	ND < 3.00	**8.32**	ND < 1.00
	06/03/2014		8.92	-	91.12	**4.91**	ND < 1.00	ND < 1.00	ND < 2.00	**4.91**	ND < 1.00
MW-15	09/27/2006	100.47	10.72	-	89.75	**616**	**21.1**	**21.7**	**64.4**	**723.2**	**425**
	12/07/2006		9.29	-	91.18	**522**	**16.6**	**8.2**	**54.5**	**601.3**	**114**
	03/29/2007		9.81	-	90.66	**389**	**14**	**5.9**	**30.7**	**439.6**	**59.5**
	06/13/2007		8.99	-	91.48	**924**	**26.7**	**6**	**56.8**	**1,014**	**191**
	09/19/2007		9.72	-	90.75	**747**	**16.6**	3.5	**34.1**	**801.2**	**104**
	12/11/2007		10.29	-	90.18	**800**	**15.1**	2.8 J	**40**	**857.9**	**119**
	03/13/2008		9.85	-	90.62	**662**	**6.4**	2.9 J	**15.2**	**686.5**	**83.4**
	06/06/2008		9.63	-	90.84	**509**	**5.6**	1.2	**12.7**	**528.5**	**81.1**
	12/30/2008		9.50	-	90.97	**164**	1.9	0.58 J	4.6	**171.08**	**16.8**
	03/16/2009		10.69	-	89.78	**540**	**5.8**	1.2	**9.5**	**556.5**	**57.2**
	06/08/2009		9.45	-	91.02	**141**	ND < 1	ND < 1	1	**142**	**14.8**
	07/20/2009		9.33	-	91.14	**80.7**	1.2	0.93 J	3.7	**86.53**	**19.1**
	09/24/2009		9.91	-	90.56	**162**	3.9	**7.3**	**8.6**	**181.8**	**74.5**
	12/03/2009		9.98	-	90.49	**432**	**8.6**	**7.3**	**17.4**	**465.3**	**52.2**
	03/03/2010		9.41	-	91.06	**606**	**6.4**	**8.1**	**18.5**	**639**	**99.2**
	06/07/2010		9.42	-	91.05	**200**	3.6	**6.2**	**6.3**	**216.1**	**24.7**
	09/01/2010		10.06	-	90.41	**194**	3.6	2.8	**5.3**	**205.7**	**101**
	12/03/2010		12.20	-	88.27	**405**	**7.6**	**6.9**	**13.7**	**433.2**	**93.3**
	03/29/2011		9.52	-	90.95	**119**	0.86 J	ND < 1	0.89 J	**120.75**	**26.8**
	06/16/2011		9.34	-	91.13	**8**	ND < 1	ND < 1	ND < 1	**8**	3.4
	08/08/2011		9.93	-	90.54	**81.1**	2.3	0.85 J	4.2	**88.45**	**45.1**
	09/19/2011		8.49	-	91.98	**43.2**	1.5	0.94 J	4.6	**50.24**	**25.8**
	12/05/2011		9.40	-	91.07	**5**	ND < 0.15	ND < 0.21	0.51	**5.51**	5.4
	03/16/2012		10.57	-	89.90	**31**	ND < 1	ND < 1	ND < 3	**31**	**58**
	06/08/2012		9.67	-	90.80	**3.89**	ND < 1.00	ND < 1.00	ND < 3.00	**3.89**	8.11
	09/07/2012		9.83	-	90.64	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	-	**10.2**
	12/18/2012		9.99	-	90.48	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	-	**11.3**
	03/14/2013		10.23	-	90.24	**6.60**	ND < 1.00	ND < 1.00	ND < 3.00	**6.6**	**30.5**
	06/24/2013		8.98	-	91.49	**2.91**	ND < 1.00	ND < 1.00	ND < 3.00	**2.91**	2.21
	09/06/2013		10.09	-	90.38	**1.77**	ND < 1.00	ND < 1.00	ND < 2.00	**1.77**	**13.0**
	12/10/2013		10.31	-	90.16	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	-	**18.0**
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	ND < 1.00	ND < 1.00	ND < 1.00	ND < 3.00	-	**13.0**
	06/03/2014		9.70	-	90.77	**1.06**	ND < 1.00	ND < 1.00	ND < 2.00	**1.06**	3.54

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-16	09/27/2006	100.42	11.90	-	88.52	**1,600**	**159**	**1,220**	**2,520**	**5,499**	2.3 J
(cont)	12/07/2006		18.97	8.72	87.99	-	-	-	-	-	-
	03/29/2007		11.36	-	89.06	**2,320**	**87.1**	**430**	**1,110**	**3,947**	**ND < 20**
	06/13/2007		10.82	0.14	89.71	-	-	-	-	-	-
	09/19/2007		10.98	0.22	89.61	-	-	-	-	-	-
	12/11/2007		9.80	0.03	90.64	-	-	-	-	-	-
	03/13/2008		10.89	-	89.53	**1,200**	**34.1**	**146**	**303**	**1,683**	ND < 10
	06/06/2008		10.06	-	90.36	**1,350**	**49.6**	**225**	**394**	**2,019**	**16.1**
	12/30/2008		9.66	-	90.76	**958**	**59.8**	**393**	**662**	**2,073**	7.7
	03/16/2009		10.70	-	89.72	**1,320**	**44**	**141**	**222**	**1,727**	3.7
	06/08/2009		9.64	-	90.78	**2,830**	**158**	**667**	**1,010**	**4,665**	**ND < 20**
	07/20/2009		9.56	0.09	90.93	-	-	-	-	-	-
	09/24/2009		9.96	0.16	90.58	-	-	-	-	-	-
	12/03/2009		9.85	0.09	90.64	-	-	-	-	-	-
	03/03/2010		8.90	-	91.52	**940**	**104**	**1,070**	**2,020**	**4,134**	3.5 J
	06/07/2010		9.28	0.28	91.35	-	-	-	-	-	-
	09/01/2010		10.21	-	90.21	**2,590**	**131**	**492**	**828**	**4,041**	**ND < 20**
	12/03/2010		9.67	0.01	90.76	-	-	-	-	-	-
	03/29/2011		8.45	-	91.97	**312**	**26.3**	**284**	**319**	**941.3**	ND < 2.5
	06/16/2011		8.75	-	91.67	**1,490**	**76.6**	**433**	**634**	**2,634**	ND < 10
	08/08/2011		9.44	0.03	91.00	-	-	-	-	-	-
	09/19/2011		7.89	-	92.53	**68.3**	4.1	**59.9**	**77.1**	**209.4**	ND < 1
	12/05/2011		8.77	-	91.65	**655**	**26**	**237**	**246**	**1,164**	ND < 0.37
	03/16/2012		9.96	-	90.46	**1,400**	**59**	**157**	**342**	**1,958**	ND < 1
	06/08/2012		9.22	-	91.20	**1,310**	**49.2**	**157**	**229**	**1,745**	ND < 1.00
	09/07/2012		9.36	-	91.06	**2,060**	**81.1**	**303**	**380**	**2,824**	ND < 1.00
	12/18/2012		9.56	-	90.86	**1,130**	**63.4**	**423**	**329**	**1,945**	ND < 1.00
	03/14/2013		9.39	-	91.03	**1,140**	**59.3**	**159**	**261**	**1,619**	ND < 1.00
	06/24/2013		8.23	-	92.19	**509**	**46.1**	**177**	**303**	**1,035**	ND < 1.00
	09/04/2013		9.32	0.04	91.13	-	-	-	-	-	-
	09/06/2013		9.57	0.21	91.01	-	-	-	-	-	-
	09/26/2013		10.83	0.23	89.76	-	-	-	-	-	-
	10/23/2013		10.08	0.25	90.53	-	-	-	-	-	-
	11/11/2013		10.34	-	90.08	-	-	-	-	-	-
	12/10/2013		10.75	-	89.67	**1,060**	**57.8**	**99.1**	**200**	**1,417**	1.30
	01/21/2014		9.68	0.12	90.83	-	-	-	-	-	-
	03/10/2014		-	-	-	-	-	-	-	-	-
	06/03/2014		8.72	0.08	91.76	-	-	-	-	-	-
MW-17	09/28/2006	100.05	10.59	-	89.46	**4.8**	**64.2**	**378**	**1,420**	**1,867**	**202**
	12/07/2006		10.90	-	89.15	**19.9**	**97.6**	**335**	**1,090**	**1,543**	**29.8**
	03/29/2007		10.18	-	89.87	**15.4**	**145**	**432**	**1,300**	**1,892**	**19.4**
	06/13/2007		9.55	-	90.50	**11.1**	**76.9**	**228**	**695**	**1,011**	**21.3**
	09/19/2007		9.71	-	90.34	**11.4**	**69.3**	**252**	**665**	**997.7**	**13.6**
	12/11/2007		10.17	-	89.88	**4.8**	**32.9**	**148**	**386**	**571.7**	4.3
	03/13/2008		9.17	-	90.88	**20.4**	**143**	**695**	**2,160**	**3,018**	8.2
	06/06/2008		9.03	-	91.02	**2.6**	**14.2**	**63.7**	**178**	**258.5**	3.4
	12/30/2008		8.51	-	91.54	**18.1**	**60.3**	**421**	**418**	**917.4**	2.3
	03/16/2009		9.42	-	90.63	**3.8**	**20.4**	**134**	**184**	**342.2**	2.1
	06/08/2009		8.19	-	91.86	**244**	**80.1**	**773**	**439**	**1,536**	7.7
	07/20/2009		8.23	-	91.82	**27.4**	**145**	**726**	**1,100**	**1,998**	1.7
	09/24/2009		8.93	-	91.12	**10.6**	**47.7**	**324**	**369**	**751.3**	ND < 1
	12/03/2009		8.91	-	91.14	**32.7**	**161**	**854**	**1,170**	**2,218**	1.7 J
	03/03/2010		8.02	-	92.03	**7.5**	**37.7**	**225**	**289**	**559.2**	1.4 J
	06/07/2010		8.33	-	91.72	**7.6**	**35**	**259**	**274**	**575.6**	0.83 J
	09/01/2010		9.01	-	91.04	**16.3**	**91.3**	**716**	**675**	**1,499**	ND < 2
	12/03/2010		8.80	-	91.25	**19.8**	**103**	**757**	**881**	**1,761**	ND < 1
	03/29/2011		7.83	-	92.22	**6.3**	**14.7**	**166**	**90.9**	**277.9**	1.2 J
	06/16/2011		7.96	0.06	92.14	-	-	-	-	-	-

Table 1

HISTORICAL GROUNDWATER MONITORING SUMMARY

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

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			1	5	5	5	NS	10
MW-17	08/08/2011	100.05	8.62	0.04	91.46	-	-	-	-	-	-
(cont)	09/19/2011		7.12	0.01	92.94	-	-	-	-	-	-
	12/05/2011		7.86	-	92.19	**9.3**	**43**	**230**	**209**	**491.3**	1
	03/16/2012		9.40	0.07	90.70	-	-	-	-	-	-
	06/08/2012		8.49	-	91.56	**23.7**	**78.4**	**402**	**239**	**743.1**	ND < 1.00
	09/07/2012		8.49	-	91.56	**24.6**	**89.0**	**279**	**304**	**696.6**	ND < 1.00
	12/18/2012		8.62	-	91.43	**18.8**	**72.5**	**275**	**332**	**698.3**	ND < 1.00
	03/14/2013		8.37	-	91.68	**3.85**	**21.2**	**80.2**	**69.1**	**174.35**	1.40
	06/24/2013		7.41	-	92.64	**6.01**	**31.1**	**112**	**101**	**250.11**	1.02
	09/04/2013		8.75	0.05	91.34	-	-	-	-	-	-
	09/06/2013		9.74	0.04	90.34	-	-	-	-	-	-
	09/26/2013		7.94	0.04	92.14	**4.58**	**21.3**	**84.9**	**63.5**	**174.28**	ND < 1.00
	10/07/2013		7.93	SHEEN	92.12	-	-	-	-	-	-
	10/23/2013		9.06	-	90.99	-	-	-	-	-	-
	11/11/2013		9.52	-	90.53	-	-	-	-	-	-
	12/10/2013		9.45	-	90.60	**10.2**	**80.4**	**562**	**719**	**1,372**	ND < 1.00
	01/21/2014		8.75	-	91.30	-	-	-	-	-	-
	03/10/2014		-	-	-	-	-	-	-	-	-
	06/03/2014		7.86	0.01	92.20	**16.1**	**98.6**	**288**	**412**	**814.7**	ND < 1.00
MW-18	09/28/2006	101.41	12.54	-	88.87	**1,470**	**137**	**499**	**1,160**	**3,266**	5.8
	12/07/2006		12.76	-	88.65	**2,490**	**210**	**518**	**1,820**	**5,038**	ND < 10
	03/29/2007		12.33	-	89.08	**2,190**	**170**	**510**	**1,100**	**3,970**	**ND < 20**
	06/13/2007		11.10	-	90.31	**2,400**	**296**	**1,040**	**3,360**	**7,096**	ND < 10
	09/19/2007		12.02	-	89.39	**1,820**	**114**	**397**	**951**	**3,282**	ND < 2.5
	12/11/2007		13.40	-	88.01	**1,670**	**63.6**	**241**	**439**	**2,414**	ND < 5
	03/13/2008		13.12	-	88.29	**1,770**	**94.2**	**399**	**649**	**2,912**	ND < 10
	06/06/2008		13.24	-	88.17	**2,410**	**156**	**746**	**1,220**	**4,532**	ND < 10
	12/30/2008		12.58	-	88.83	**1,970**	**80.4**	**319**	**620**	**2,989**	ND < 5
	03/16/2009		12.85	-	88.56	**1,850**	**79.7**	**254**	**417**	**2,601**	ND < 5
	06/08/2009		12.51	-	88.90	**1,680**	**79.8**	**302**	**480**	**2,542**	ND < 10
	07/20/2009		12.65	-	88.76	**1,570**	**83.7**	**301**	**537**	**2,492**	ND < 10
	09/24/2009		12.96	-	88.45	**1,010**	**48.8**	**131**	**363**	**1,553**	ND < 1
	12/03/2009		12.76	-	88.65	**1,380**	**57.2**	**355**	**720**	**2,512**	ND < 5
	03/03/2010		11.90	-	89.51	**1,790**	**80.6**	**400**	**548**	**2,819**	ND < 10
	06/07/2010		12.47	-	88.94	**1,630**	**103**	**502**	**548**	**2,783**	ND < 5
	09/01/2010		12.83	-	88.58	**2,580**	**102**	**347**	**637**	**3,666**	**ND < 20**
	12/03/2010		12.87	-	88.54	**1,020**	**39.4**	**119**	**175**	**1,353**	ND < 10
	03/29/2011		10.46	-	90.95	**746**	**34.7**	**137**	**163**	**1,081**	ND < 5
	06/16/2011		11.00	-	90.41	**2,180**	**123**	**548**	**738**	**3,589**	ND < 10
	08/08/2011		10.71	-	90.70	**2,440**	**104**	**261**	**374**	**3,179**	ND < 10
	09/19/2011		10.34	-	91.07	**1,200**	**64.8**	**318**	**425**	**2,008**	ND < 5
	12/05/2011		9.90	-	91.51	**1,620**	**65**	**287**	**345**	**2,317**	ND < 0.92
	03/16/2012		10.66	-	90.75	**1,740**	**101**	**1,310**	**1,510**	**4,661**	ND < 1
	06/08/2012		9.83	-	91.58	**153**	**11.9**	**109**	**137**	**410.9**	ND < 1.00
	09/07/2012		10.05	-	91.36	**1,070**	**53.8**	**451**	**337**	**1,912**	ND < 1.00
	12/18/2012		10.18	-	91.23	**944**	**52.9**	**160**	**315**	**1,472**	ND < 1.00
	03/14/2013		9.95	-	91.46	**780**	**31.3**	**89.2**	**137**	**1,038**	ND < 1.00
	06/24/2013		8.85	-	92.56	**382**	**26.5**	**97.3**	**188**	**693.8**	ND < 1.00
	09/04/2013		10.13	-	91.28	**1,150**	**87.8**	**371**	**522**	**2,131**	ND < 1.00
	09/06/2013		10.66	-	90.75	**1,150**	**87.8**	**371**	**522**	**2,131**	ND < 1.00
	12/10/2013		11.01	-	90.40	**820**	**55.1**	**122**	**176**	**1,173**	ND < 1.00
	01/21/2014		-	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**897**	**70.6**	**230**	**216**	**1,414**	ND < 1.00
	06/03/2014		9.45	-	91.96	**282**	**48.4**	**209**	**248**	**787.4**	ND < 1.00
MW-19	09/06/2013	NSD	9.41	-	-	**39.3**	**15.8**	**171**	**58.3**	**284.4**	ND < 1.00
	10/07/2013		9.58	SHEEN	-	-	-	-	-	-	-
	10/23/2013		9.89	-	-	-	-	-	-	-	-
	11/11/2013		10.42	-	-	-	-	-	-	-	-

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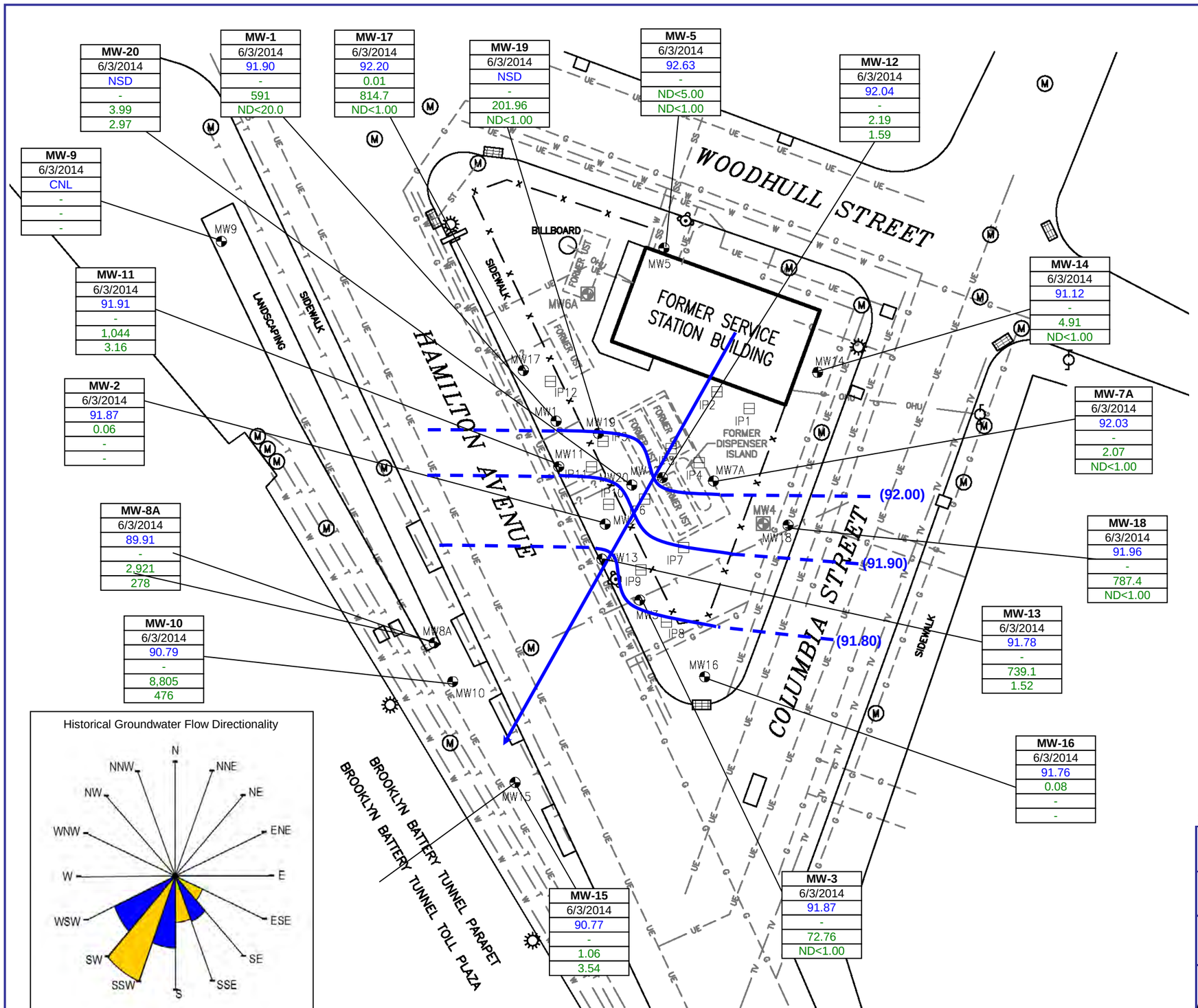
Former Mobil Station #17-EMW
304 Columbia Street
Brooklyn, NY

Well	Date	Casing Elevation	Depth to Water	Product Thickness	Adjusted Elevation	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Xylenes, Total (ug/L)	Total BTEX (ug/L)	MTBE (ug/L)
			NYSDEC TOGS 1.1.1 WQS			**1**	**5**	**5**	**5**	**NS**	**10**
MW-19	12/10/2013	NSD	10.29	-	-	**57.5**	**18.1**	**148**	**56.2**	**279.8**	4.75
(cont)	01/21/2014		9.49	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**67.1**	**8.28**	**245**	**58.0**	**378.38**	2.75
	06/03/2014		8.58	-	-	**35.7**	4.06	**126**	**36.2**	**201.96**	ND < 1.00
MW-20	09/06/2013		9.34	-	-	**44.5**	3.65	**44.6**	**15.4**	**108.15**	**29.2**
	10/07/2013		9.58	SHEEN	-	-	-	-	-	-	-
	10/23/2013		9.82	-	-	-	-	-	-	-	-
	11/11/2013		10.20	-	-	-	-	-	-	-	-
	12/10/2013		10.24	-	-	**145**	2.62	**89.1**	**21.1**	**257.82**	**47.4**
	01/21/2014		9.35	-	-	-	-	-	-	-	-
	03/10/2014		-	-	-	**19.8**	ND < 1.00	2.63	ND < 3.00	**22.43**	**10.5**
	06/03/2014		8.38	-	-	**3.99**	ND < 1.00	ND < 1.00	ND < 2.00	**3.99**	2.97

NOTES:

TOGS 1.1.1 GWQS = Ambient 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
mg/L = Milligrams/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 Remediation
µg/L = Micrograms per liter
STARS = Spills Technology and Remediation Series #1, amended August 1992
VOCs = Volatile Organic Compounds

FIGURE



LEGEND

- FENCE
- CATCH BASIN
- UTILITY MANHOLE
- UTILITY POLE
- LIGHT POLE
- FIRE HYDRANT
- MONITORING WELL
- ABANDONED/DESTROYED MONITORING WELL
- INJECTION POINT
- SS — UNDERGROUND SANITARY SEWER LINE
- TV — UNDERGROUND TELEVISION LINE
- T — UNDERGROUND TELEPHONE LINE
- UE — UNDERGROUND ELECTRIC LINE
- W — UNDERGROUND WATER LINE
- G — UNDERGROUND GAS LINE

MW-15	WELL IDENTIFICATION
12/10/2013	SAMPLE DATE
90.16	GROUNDWATER ELEVATION (feet)
-	LPH THICKNESS (feet)
ND<6.00	TOTAL BTEX CONCENTRATION (µg/L)
18.0	MTBE CONCENTRATION (µg/L)

LPH	LIQUID PHASE HYDROCARBONS
µg/L	MICROGRAMS PER LITER
CNL	COULD NOT LOCATE
NSD	NO SURVEY DATA
BTEX	BENZENE, TOLUENE, ETHYLBENZENE AND TOTAL XYLENES
MTBE	METHYL *tert*- BUTYL ETHER
ND < #	WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN.
NS	NOT SAMPLED
(91.80)	GROUNDWATER ELEVATION (feet)
	GROUNDWATER CONTOUR LINE (feet)
	INFERRED GROUNDWATER CONTOUR
	HISTORICAL GROUNDWATER FLOW DIRECTION

Notes:
- MW-9 could not be located and therefore was not gauged or sampled.
- MW-1 and MW-14 groundwater elevations were not included in groundwater contour calculations.

DRAFTED BY: MJW (NY-E)	**GROUNDWATER MONITORING MAP June 3, 2014**
CHECKED BY: DGS (NY-E)	**Former Mobil Station #17-EMW 304 Columbia Street Brooklyn, New York**
REVIEWED BY:	**Groundwater & Environmental Services, Inc.** 89 CABOT COURT, SUITE A, HAUPPAUGE, NEW YORK 11788
NORTH	SCALE IN FEET: 0 30 / DATE: 7/1/2014 / FIGURE: 1

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 *Commissioner Policy 51/ Soil Cleanup Guidance*, 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 :	*Spills Technology and Remediation Series #1*, amended August 1992
STIP :	Stipulation Agreement.
SVE :	Soil Vapor Extraction
SVOCs :	Semi Volatile Organic Compounds
TAGM :	*Technical and Administrative Guidance Memorandum (#4046): Determination of Soil Cleanup Objectives*, 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 *Technical and Operation Guidance Series* 1.1.1, *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations* and the April 2000 *Addendum*.

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*.

- 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.

- 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.

- January 21, 2014 – Conducted post-surfactant injection groundwater monitoring activities which included the gauging of nine (9) monitoring wells (MW-1 through MW-3, MW-11, MW-13, MW-16, MW-17, MW-19 and MW-20). Monitoring well MW-12 was not gauged as it was inaccessible. LPH was detected in two (2) monitoring wells (MW-1 and MW-16).

ATTACHMENT C

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: 490-54515-1
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: GES, Inc.

Authorized for release by:
6/18/2014 10:14:18 AM
Leah Klingensmith, Senior Project Manager
(615)301-5038
leah.klingensmith@testamericainc.com

Designee for

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

Table of Contents

Sample Summary

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-54515-1	MW-1	Ground Water	06/03/14 10:15	06/04/14 08:30
490-54515-2	MW-3	Ground Water	06/03/14 11:45	06/04/14 08:30
490-54515-3	MW-5	Ground Water	06/03/14 10:00	06/04/14 08:30
490-54515-4	MW-7A	Ground Water	06/03/14 11:55	06/04/14 08:30
490-54515-5	MW-8A	Ground Water	06/03/14 13:00	06/04/14 08:30
490-54515-6	MW-10	Ground Water	06/03/14 12:35	06/04/14 08:30
490-54515-7	MW-11	Ground Water	06/03/14 10:40	06/04/14 08:30
490-54515-8	MW-12	Ground Water	06/03/14 12:20	06/04/14 08:30
490-54515-9	MW-13	Ground Water	06/03/14 12:45	06/04/14 08:30
490-54515-10	MW-14	Ground Water	06/03/14 10:25	06/04/14 08:30
490-54515-11	MW-15	Ground Water	06/03/14 12:10	06/04/14 08:30
490-54515-12	MW-17	Ground Water	06/03/14 09:50	06/04/14 08:30
490-54515-13	MW-18	Ground Water	06/03/14 10:50	06/04/14 08:30
490-54515-14	MW-19	Ground Water	06/03/14 11:05	06/04/14 08:30
490-54515-15	MW-20	Ground Water	06/03/14 11:30	06/04/14 08:30
490-54515-16	Trip Blank	Water	06/03/14 00:01	06/04/14 08:30

Job ID: 490-54515-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-54515-1

Comments
No additional comments.

Receipt
The samples were received on 6/4/2014 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS VOA
Method(s) 8260C: The following sample(s) were collected in properly preserved vials for analysis of volatile organic compounds (VOCs). However, the pH was outside the required criteria when verified by the laboratory, and corrective action was not possible: MW-11 (490-54515-7). Based on sample date, this sample was analyzed out of hold.

Method(s) 8260C: Surrogate recovery for the following sample(s) was outside control limits: MW-8A (490-54515-5), MW-17 (490-54515-12). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8260C: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: MW-1 (490-54515-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

The laboratory is only responsible for the certified testing and is not responsible for the sample integrity prior to laboratory receipt.

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.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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: Groundwater & Environmental Services Inc
Project/Site: EM 17-EMW

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-1
Date Collected: 06/03/14 10:15
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-1
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**20.0**		20.0		ug/L			06/12/14 17:12	20
Toluene	ND		20.0		ug/L			06/12/14 17:12	20
Ethylbenzene	**371**		20.0		ug/L			06/12/14 17:12	20
Xylenes, Total	**200**		40.0		ug/L			06/12/14 17:12	20
Methyl tert-butyl ether	ND		20.0		ug/L			06/12/14 17:12	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*06/12/14 17:12*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*06/12/14 17:12*	*20*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*06/12/14 17:12*	*20*
Toluene-d8 (Surr)	*104*		*70 - 130*		*06/12/14 17:12*	*20*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-3
Date Collected: 06/03/14 11:45
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-2
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			06/12/14 16:45	1
Toluene	**1.26**		1.00		ug/L			06/12/14 16:45	1
Ethylbenzene	**28.3**		1.00		ug/L			06/12/14 16:45	1
Xylenes, Total	**43.2**		2.00		ug/L			06/12/14 16:45	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*06/12/14 16:45*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/12/14 16:45*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*06/12/14 16:45*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*06/12/14 16:45*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-5
Date Collected: 06/03/14 10:00
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-3
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			06/12/14 18:04	1
Toluene	ND		1.00		ug/L			06/12/14 18:04	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 18:04	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 18:04	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*06/12/14 18:04*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/12/14 18:04*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 18:04*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*06/12/14 18:04*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-7A
Date Collected: 06/03/14 11:55
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-4
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.07**		1.00		ug/L			06/12/14 18:31	1
Toluene	ND		1.00		ug/L			06/12/14 18:31	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 18:31	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 18:31	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 18:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*06/12/14 18:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*06/12/14 18:31*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 18:31*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*06/12/14 18:31*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-8A
Date Collected: 06/03/14 13:00
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-5
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1400		10.0		ug/L			06/13/14 13:22	10
Toluene	251		1.00		ug/L			06/12/14 18:57	1
Ethylbenzene	361		1.00		ug/L			06/12/14 18:57	1
Xylenes, Total	909		2.00		ug/L			06/12/14 18:57	1
Methyl tert-butyl ether	278		1.00		ug/L			06/12/14 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*06/12/14 18:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*06/13/14 13:22*	*10*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*06/12/14 18:57*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*06/13/14 13:22*	*10*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 18:57*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/13/14 13:22*	*10*
Toluene-d8 (Surr)	*149*	*X*	*70 - 130*		*06/12/14 18:57*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*06/13/14 13:22*	*10*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-10
Date Collected: 06/03/14 12:35
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-6
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	3400		20.0		ug/L			06/13/14 14:03	20
Toluene	455		20.0		ug/L			06/13/14 14:03	20
Ethylbenzene	1250		20.0		ug/L			06/13/14 14:03	20
Xylenes, Total	3700		40.0		ug/L			06/13/14 14:03	20
Methyl tert-butyl ether	476		20.0		ug/L			06/13/14 14:03	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*06/13/14 14:03*	*20*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*06/13/14 14:03*	*20*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/13/14 14:03*	*20*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/13/14 14:03*	*20*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-11
Date Collected: 06/03/14 10:40
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-7
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	218		1.00		ug/L			06/12/14 19:23	1
Toluene	70.6		1.00		ug/L			06/12/14 19:23	1
Ethylbenzene	287		1.00		ug/L			06/12/14 19:23	1
Xylenes, Total	468		2.00		ug/L			06/12/14 19:23	1
Methyl tert-butyl ether	3.16		1.00		ug/L			06/12/14 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*06/12/14 19:23*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/12/14 19:23*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*06/12/14 19:23*	*1*
Toluene-d8 (Surr)	*106*		*70 - 130*		*06/12/14 19:23*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-12
Date Collected: 06/03/14 12:20
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-8
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.19**		1.00		ug/L			06/12/14 19:50	1
Toluene	ND		1.00		ug/L			06/12/14 19:50	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 19:50	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 19:50	1
Methyl tert-butyl ether	**1.59**		1.00		ug/L			06/12/14 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*06/12/14 19:50*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*06/12/14 19:50*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 19:50*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/12/14 19:50*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-13
Date Collected: 06/03/14 12:45
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-9
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	92.1		1.00		ug/L			06/12/14 20:16	1
Toluene	29.0		1.00		ug/L			06/12/14 20:16	1
Ethylbenzene	235		1.00		ug/L			06/12/14 20:16	1
Xylenes, Total	383		2.00		ug/L			06/12/14 20:16	1
Methyl tert-butyl ether	1.52		1.00		ug/L			06/12/14 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*06/12/14 20:16*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*06/12/14 20:16*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 20:16*	*1*
Toluene-d8 (Surr)	*116*		*70 - 130*		*06/12/14 20:16*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-14
Date Collected: 06/03/14 10:25
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-10
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**4.91**		1.00		ug/L			06/12/14 20:42	1
Toluene	ND		1.00		ug/L			06/12/14 20:42	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 20:42	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 20:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 20:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*06/12/14 20:42*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*06/12/14 20:42*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 20:42*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/12/14 20:42*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-15
Date Collected: 06/03/14 12:10
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-11
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.06**		1.00		ug/L			06/12/14 21:08	1
Toluene	ND		1.00		ug/L			06/12/14 21:08	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 21:08	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 21:08	1
Methyl tert-butyl ether	**3.54**		1.00		ug/L			06/12/14 21:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*06/12/14 21:08*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/12/14 21:08*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*06/12/14 21:08*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*06/12/14 21:08*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-17
Date Collected: 06/03/14 09:50
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-12
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**16.1**		1.00		ug/L			06/12/14 21:35	1
Toluene	**98.6**		1.00		ug/L			06/12/14 21:35	1
Ethylbenzene	**288**		1.00		ug/L			06/12/14 21:35	1
Xylenes, Total	**412**		2.00		ug/L			06/12/14 21:35	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*06/12/14 21:35*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*06/12/14 21:35*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*06/12/14 21:35*	*1*
Toluene-d8 (Surr)	*136*	*X*	*70 - 130*		*06/12/14 21:35*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-18
Date Collected: 06/03/14 10:50
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-13
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**282**		1.00		ug/L			06/12/14 22:01	1
Toluene	**48.4**		1.00		ug/L			06/12/14 22:01	1
Ethylbenzene	**209**		1.00		ug/L			06/12/14 22:01	1
Xylenes, Total	**248**		2.00		ug/L			06/12/14 22:01	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*06/12/14 22:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*06/12/14 22:01*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 22:01*	*1*
Toluene-d8 (Surr)	*117*		*70 - 130*		*06/12/14 22:01*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-19
Date Collected: 06/03/14 11:05
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-14
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**35.7**		1.00		ug/L			06/12/14 22:27	1
Toluene	**4.06**		1.00		ug/L			06/12/14 22:27	1
Ethylbenzene	**126**		1.00		ug/L			06/12/14 22:27	1
Xylenes, Total	**36.2**		2.00		ug/L			06/12/14 22:27	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*06/12/14 22:27*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*06/12/14 22:27*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 22:27*	*1*
Toluene-d8 (Surr)	*127*		*70 - 130*		*06/12/14 22:27*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-20
Date Collected: 06/03/14 11:30
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-15
Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.99**		1.00		ug/L			06/12/14 22:54	1
Toluene	ND		1.00		ug/L			06/12/14 22:54	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 22:54	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 22:54	1
Methyl tert-butyl ether	**2.97**		1.00		ug/L			06/12/14 22:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*06/12/14 22:54*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/12/14 22:54*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*06/12/14 22:54*	*1*
Toluene-d8 (Surr)	*101*		*70 - 130*		*06/12/14 22:54*	*1*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: Trip Blank
Date Collected: 06/03/14 00:01
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-16
Matrix: 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			06/12/14 16:19	1
Toluene	ND		1.00		ug/L			06/12/14 16:19	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 16:19	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 16:19	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*06/12/14 16:19*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*06/12/14 16:19*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*06/12/14 16:19*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*06/12/14 16:19*	*1*

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

Lab Sample ID: MB 490-169055/6
Matrix: Water
Analysis Batch: 169055

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			06/12/14 15:53	1
Toluene	ND		1.00		ug/L			06/12/14 15:53	1
Ethylbenzene	ND		1.00		ug/L			06/12/14 15:53	1
Xylenes, Total	ND		2.00		ug/L			06/12/14 15:53	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/12/14 15:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*06/12/14 15:53*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*06/12/14 15:53*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*06/12/14 15:53*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*06/12/14 15:53*	*1*

Lab Sample ID: LCS 490-169055/4
Matrix: Water
Analysis Batch: 169055

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	44.04		ug/L		88	80 - 121
Toluene	50.0	44.63		ug/L		89	80 - 126
Ethylbenzene	50.0	50.97		ug/L		102	80 - 130
Xylenes, Total	150	159.8		ug/L		107	80 - 132
Methyl tert-butyl ether	50.0	45.95		ug/L		92	72 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 490-54515-2 MS
Matrix: Ground Water
Analysis Batch: 169055

Client Sample ID: MW-3
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	46.85		ug/L		93	75 - 133
Toluene	1.26		50.0	49.72		ug/L		97	75 - 136
Ethylbenzene	28.3		50.0	76.16		ug/L		96	79 - 139
Xylenes, Total	43.2		150	193.7		ug/L		100	74 - 141
Methyl tert-butyl ether	ND		50.0	48.77		ug/L		98	66 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*101*		*70 - 130*

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

Lab Sample ID: 490-54515-2 MSD
Matrix: Ground Water
Analysis Batch: 169055

Client Sample ID: MW-3
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	49.86		ug/L		99	75 - 133	6	17
Toluene	1.26		50.0	52.13		ug/L		102	75 - 136	5	15
Ethylbenzene	28.3		50.0	80.31		ug/L		104	79 - 139	5	15
Xylenes, Total	43.2		150	204.7		ug/L		108	74 - 141	6	15
Methyl tert-butyl ether	ND		50.0	52.76		ug/L		106	66 - 141	8	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 490-169243/7
Matrix: Water
Analysis Batch: 169243

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			06/13/14 12:29	1
Toluene	ND		1.00		ug/L			06/13/14 12:29	1
Ethylbenzene	ND		1.00		ug/L			06/13/14 12:29	1
Xylenes, Total	ND		2.00		ug/L			06/13/14 12:29	1
Methyl tert-butyl ether	ND		1.00		ug/L			06/13/14 12:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*06/13/14 12:29*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*06/13/14 12:29*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*06/13/14 12:29*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*06/13/14 12:29*	*1*

Lab Sample ID: LCS 490-169243/4
Matrix: Water
Analysis Batch: 169243

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			50.0	43.51		ug/L		87	80 - 121		
Toluene			50.0	44.78		ug/L		90	80 - 126		
Ethylbenzene			50.0	49.17		ug/L		98	80 - 130		
Xylenes, Total			150	149.5		ug/L		100	80 - 132		
Methyl tert-butyl ether			50.0	43.21		ug/L		86	72 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

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

Lab Sample ID: LCSD 490-169243/5
Matrix: Water
Analysis Batch: 169243

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			50.0	43.51		ug/L		87	80 - 121	0	17
Toluene			50.0	45.59		ug/L		91	80 - 126	2	15
Ethylbenzene			50.0	50.18		ug/L		100	80 - 130	2	15
Xylenes, Total			150	152.8		ug/L		102	80 - 132	2	15
Methyl tert-butyl ether			50.0	43.47		ug/L		87	72 - 133	1	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
Toluene-d8 (Surr)	*100*		*70 - 130*

Lab Sample ID: 490-54874-B-2 MS
Matrix: Water
Analysis Batch: 169243

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		50.0	47.43		ug/L		94	75 - 133
Toluene	ND		50.0	48.04		ug/L		96	75 - 136
Ethylbenzene	ND		50.0	52.74		ug/L		105	79 - 139
Xylenes, Total	ND		150	163.2		ug/L		109	74 - 141
Methyl tert-butyl ether	3.29		50.0	48.60		ug/L		91	66 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: 490-54874-C-2 MSD
Matrix: Water
Analysis Batch: 169243

Client Sample ID: Matrix Spike Duplicate
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	45.83		ug/L		90	75 - 133	3	17
Toluene	ND		50.0	46.30		ug/L		93	75 - 136	4	15
Ethylbenzene	ND		50.0	51.46		ug/L		103	79 - 139	2	15
Xylenes, Total	ND		150	157.9		ug/L		105	74 - 141	3	15
Methyl tert-butyl ether	3.29		50.0	49.02		ug/L		91	66 - 141	1	16

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

GC/MS VOA

Analysis Batch: 169055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-54515-1	MW-1	Total/NA	Ground Water	8260C	
490-54515-2	MW-3	Total/NA	Ground Water	8260C	
490-54515-2 MS	MW-3	Total/NA	Ground Water	8260C	
490-54515-2 MSD	MW-3	Total/NA	Ground Water	8260C	
490-54515-3	MW-5	Total/NA	Ground Water	8260C	
490-54515-4	MW-7A	Total/NA	Ground Water	8260C	
490-54515-5	MW-8A	Total/NA	Ground Water	8260C	
490-54515-7	MW-11	Total/NA	Ground Water	8260C	
490-54515-8	MW-12	Total/NA	Ground Water	8260C	
490-54515-9	MW-13	Total/NA	Ground Water	8260C	
490-54515-10	MW-14	Total/NA	Ground Water	8260C	
490-54515-11	MW-15	Total/NA	Ground Water	8260C	
490-54515-12	MW-17	Total/NA	Ground Water	8260C	
490-54515-13	MW-18	Total/NA	Ground Water	8260C	
490-54515-14	MW-19	Total/NA	Ground Water	8260C	
490-54515-15	MW-20	Total/NA	Ground Water	8260C	
490-54515-16	Trip Blank	Total/NA	Water	8260C	
LCS 490-169055/4	Lab Control Sample	Total/NA	Water	8260C	
MB 490-169055/6	Method Blank	Total/NA	Water	8260C	

Analysis Batch: 169243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-54515-5	MW-8A	Total/NA	Ground Water	8260C	
490-54515-6	MW-10	Total/NA	Ground Water	8260C	
490-54874-B-2 MS	Matrix Spike	Total/NA	Water	8260C	
490-54874-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	
LCS 490-169243/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 490-169243/5	Lab Control Sample Dup	Total/NA	Water	8260C	
MB 490-169243/7	Method Blank	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-1

Date Collected: 06/03/14 10:15
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-1
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		20	10 mL	10 mL	169055	06/12/14 17:12	JMG	TAL NSH

Client Sample ID: MW-3

Date Collected: 06/03/14 11:45
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-2
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	10 mL	10 mL	169055	06/12/14 16:45	JMG	TAL NSH

Client Sample ID: MW-5

Date Collected: 06/03/14 10:00
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-3
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	10 mL	10 mL	169055	06/12/14 18:04	JMG	TAL NSH

Client Sample ID: MW-7A

Date Collected: 06/03/14 11:55
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-4
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	10 mL	10 mL	169055	06/12/14 18:31	JMG	TAL NSH

Client Sample ID: MW-8A

Date Collected: 06/03/14 13:00
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-5
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	10 mL	10 mL	169055	06/12/14 18:57	JMG	TAL NSH
Total/NA	Analysis	8260C		10	10 mL	10 mL	169243	06/13/14 13:22	JMG	TAL NSH

Client Sample ID: MW-10

Date Collected: 06/03/14 12:35
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-6
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		20	10 mL	10 mL	169243	06/13/14 14:03	JMG	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-11

Date Collected: 06/03/14 10:40
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-7

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	10 mL	10 mL	169055	06/12/14 19:23	JMG	TAL NSH

Client Sample ID: MW-12

Date Collected: 06/03/14 12:20
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-8

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	10 mL	10 mL	169055	06/12/14 19:50	JMG	TAL NSH

Client Sample ID: MW-13

Date Collected: 06/03/14 12:45
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-9

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	10 mL	10 mL	169055	06/12/14 20:16	JMG	TAL NSH

Client Sample ID: MW-14

Date Collected: 06/03/14 10:25
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-10

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	10 mL	10 mL	169055	06/12/14 20:42	JMG	TAL NSH

Client Sample ID: MW-15

Date Collected: 06/03/14 12:10
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-11

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	10 mL	10 mL	169055	06/12/14 21:08	JMG	TAL NSH

Client Sample ID: MW-17

Date Collected: 06/03/14 09:50
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-12

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		1	10 mL	10 mL	169055	06/12/14 21:35	JMG	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-54515-1
SDG: 304 Columbia St., Brooklyn, NY

Client Sample ID: MW-18

Date Collected: 06/03/14 10:50
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-13
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		1	10 mL	10 mL	169055	06/12/14 22:01	JMG	TAL NSH

Client Sample ID: MW-19

Date Collected: 06/03/14 11:05
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-14
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	10 mL	10 mL	169055	06/12/14 22:27	JMG	TAL NSH

Client Sample ID: MW-20

Date Collected: 06/03/14 11:30
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-15
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	10 mL	10 mL	169055	06/12/14 22:54	JMG	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 06/03/14 00:01
Date Received: 06/04/14 08:30

Lab Sample ID: 490-54515-16
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	10 mL	10 mL	169055	06/12/14 16:19	JMG	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: 490-54515-1
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: 490-54515-1
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	03-31-15

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-54515 Chain of Custody

Cooler Received/Opened On : 06/4/2014 @ 0830

1. Tracking # 3276 (last 4 digits, FedEx)

Courier: Fed-ex IR Gun: 96210146

2. Temperature of rep. sample or temp blank when opened: 1.9 *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

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 (intial) _____

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 #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) mam

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 (intial) mam

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 (intial) mam

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

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

BIS = Broken in shipment

1 of 2

Loc: 490
545135
6/18/14

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204

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

ExxonMobil

Consultant Name: Groundwater & Environmental Services Inc
Address: 89 Cabot Court
City/State/Zip: Hauppauge, NY 11788
ExxonMobil Project Mgr: LAURIE MCCARTHY
Consultant Project Mgr: DENNIS EHLEN
Consultant Telephone Number: 860-360-9405 / Fax No.:
Sampler Name: (Print) SEAN SPANN / ISAIAH HOUSTON
Sampler Signature:

TA Project #: 49001306 PO#:
Invoice To:
Report To:
Project Name:
Retail # (MRN #): 17-EMW
Major Project (AFE#):
Site Address 394 COLUMBIA ST
City, State, Zip BROOKLYN NY.
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX, MTBE EPA 8260										RUSH TAT (Pre-Scheduled) *	TAT request (In Bus. Days)	Fax Results (yes or no)	Due Date of Report
MW-1	6/3/14	1015	3	X					X						WG						X									1				
MW-3	"	1145	"	"					"						"						"									2				
MW-5	"	1000	"	"					"						"						"									3				
MW-7A	"	1155	"	"					"						"						"									4				
MW-8A	"	1300	"	"					"						"						"									5				
MW-10	"	1235	"	"					"						"						"									6				
MW-11	"	1040	"	"					"						"						"									7				
MW-12	"	1220	"	"					"						"						"									8				
MW-13	"	1245	"	"					"						"						"									9				
MW-14	"	1025	"	"					"						"						"									10				

Comments/Special Instructions:
email EQEDD package to: ges@equisonline.com ; LILABS@gesonline.com

TA Project #: ExxonMobil projects only (bill directly to GES: 49001306
EDD Name: EM17-EMW-126 report #. 1810. EQEDD.zip

Laboratory Comments:
Temperature Upon Receipt: 1.9c
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

Relinquished by:	Date	Time	Received by:	Date	Time
	6/3/14	1700	FED EX	6/3/14	1700
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
				6514	0830

* 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.
TA Project Manager: Date:

Page 32 of 34

Loc: 490
54515
#1
A
6/18/2014

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Groundwater & Environmental Services Inc
Address: 89 Cabot Court
City/State/Zip: Hauppauge, NY 11788
ExxonMobil Project Mgr: Laurie McCarthy
Consultant Project Mgr: Dennis Shin
Consultant Telephone Number: 800-360-9405 Fax No.:
Sampler Name: (Print) Brian Dunn / Isaiah Millington
Sampler Signature:

TA Project #: 49001306 PO#:
Invoice To:
Report To:
Project Name:
Retail # (MRN #): 17-EMW
Major Project (AFE#):
Site Address 304 Columbia St
City, State, Zip Brooklyn, NY
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: BTEX, MTBE EPA										RUSH TAT (Pre-Scheduled) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
MW-15	6/3/14	1210	3	X					X						WG						X									11					
~~MW-16 dup~~																																			
MW-17		0950																												12					
MW-18		1050																												13					
MW-19		1105																												14					
MW-20		1130																												15					

Comments/Special Instructions: email EQEDD package to: ges@equisonline.com ; LILABS@gesonline.com

TA Project #: ExxonMobil projects only (bill directly to GES: 49001306 EDD Name: EM 17-EMW-lab report #_1810.EQEDD.zip

Relinquished by:	Date	Time	Received by:	Date	Time
	6/3/14	1700	FEDEX	6/5/14	1700
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			TAN	6-5-14	0830

Laboratory Comments:
Temperature Upon Receipt: 1.9°C
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other
* 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.
TA Project Manager: Date:

Login Sample Receipt Checklist

Client: Groundwater & Environmental Services Inc

Job Number: 490-54515-1
SDG Number: 304 Columbia St., Brooklyn, NY

Login Number: 54515
List Number: 1
Creator: McBride, Mike

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	1.9
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	