Mr. Michael MacCabe
New York State Department of Environmental Conservation
Bureau of Eastern Remedial Action
Division of Environmental Remediation
Remedial Bureau B
625 Broadway
Albany, New York 12233

Arcadis of New York, Inc.
One HSBC Plaza
100 Chestnut Street
Suite 1020
Rochester
New York 14604
Tel 585 662 4044
Fax 585 385 4198
www.arcadis.com

ENVIRONMENT

Subject:
Site Status Update Report
Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York
NYSDEC Case No. 01-01410
PBS No. 2-157228

Date:
September 30, 2020

Contact:
Nicholas (Klaus) Beyrle

Phone:
585.662.4044

Email:
nicholas.beyrle
@arcadis.com

Our ref:
30007569

Dear Mr. MacCabe:

Arcadis of New York, Inc. (Arcadis) was retained by Alliance Energy LLC (Alliance) to submit the attached semi-annual Site Status Update Report (SSUR) for the above-referenced site. This SSUR summarizes the activities completed at the site from January through July 2020. Please contact me with any questions regarding this site.

Sincerely,

Arcadis of New York, Inc.

Nicholas (Klaus) Beyrle, PG
Project Geologist

ARCADIS Design & Consultancy for natural and built assets

Alliance Energy LLC

SITE STATUS UPDATE REPORT

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York
NYSDEC Spill No. 01-01410
PBS No. 2-157228

September 2020

SITE STATUS UPDATE REPORT

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York
NYSDEC Case No. 01-01410
PBS No. 2-157228

Nicholas (Klaus) Beyrle, PG
Staff Geologist

Prepared for:

Alliance Energy LLC

Prepared by:

Arcadis of New York, Inc.
One HSBC Plaza
100 Chestnut Street
Suite 1020
Rochester
New York 14604
Tel 585 662 4044
Fax 585 385 4198

Our Ref.:

30007569

Date:

September 2020

WORK PERFORMED

- On July 28 and 31, 2020, Arcadis of New York, Inc. (Arcadis) gauged and sampled five monitoring wells and six injection points (IPs). Wells MW-2, MW-3, MW-4, MW-7, MW-9, MW-B, MW-C, and IP-4 were not gauged and sampled. IP-1 and IP-7 were not sampled due to insufficient water
- Operation, monitoring, and maintenance (OM&M) on the air sparge/soil vapor extraction (AS/SVE) system was conducted on January 15, February 12, and March 11, 2020 during this reporting period. Following correspondence with the New York State Department of Environmental Conservation (NYSDEC), the system was taken offline on April 16, 2020 for rebound monitoring.

GROUNDWATER MONITORING (JULY 28 & 31, 2020)

- Number of wells: Twelve groundwater monitoring wells, six AS wells, two SVE wells, one SVE observation well, and seven IPs are associated with the site (Figure 2).
- Gauging Frequency: Semi-annually
- Liquid Phase Hydrocarbons (LPH): None detected.
- Sampling Frequency: Semi-annually
- Reporting Frequency: Semi-annually
- Groundwater Depth: (Data collected across two days) 35.95 feet (ft) below top of casing at MW-5 to 38.14 ft below casing at IP-1.
- Benzene, Toluene, Ethylbenzene and Total Xylenes (BTEX) Concentrations: Below laboratory reporting limit (BRL) (MW-1, MW-5, MW-6, MW-10, IP-2, IP-5, and IP-6) to 11.22 J micrograms per liter (µg/L) (MW-8).
- Methyl Tertiary Butyl Ether (MTBE) Concentrations: BRL (MW-1, MW-5, MW-6, MW-8, MW-10, IP-2, IP-3, IP-5, and IP-6).
- Groundwater Flow (Direction Inferred): West at a gradient of 0.03 feet per foot (ft/ft) (Figure 3).

SITE SPECIFIC GEOLOGY/HYDROGEOLOGY

- Overburden material consists of dark yellow-brown fine to coarse sand with trace to some coarse gravel, cobbles and silt.
- Bedrock was not encountered during previous investigations.

POTENTIAL SENSITIVE RECEPTORS

- Commercial and residential buildings containing basements are located adjacent to the site.
- Subsurface utilities and a subway are located adjacent to the site.

- There is one private non-potable well located approximately 780 ft south of the property (potentially down gradient) and one public supply well (PSW) (Jamaica Water Supply Company Well Q322 [ID#7011735-026]) located approximately 0.5 miles northwest (upgradient) of the site.

HISTORIC INVESTIGATION ACTIVITIES

- In December 2008, a Phase I Environmental Site Assessment (ESA) was conducted.
- In April 2010, a Phase II Environmental Assessment Report was conducted. Seven soil borings were installed, two of which were completed as monitoring wells.
- In November 2010, a Phase I ESA Update was prepared.

HISTORIC REMEDIAL ACTIVITIES

- In September 2009, On-Contact® Process injections of approximately 500 gallons of On-Contact® catalyst and 1,430 gallons of 6% hydrogen peroxide oxidizer were introduced to the subsurface via gravity through injection point IP-2.
- In November 2010, On-Contact® Process injections of approximately 6,000 gallons of On-Contact® catalyst and 11,000 gallons of On-Contact® oxidizer were introduced to the subsurface via gravity through IPs IP-1 through IP-7.
- A Work Plan (WP) for pilot testing and installation of an AS/SVE system was approved by the NYSDEC on March 28, 2012.
- On October 23, 2012, Arcadis submitted a permit application package to the NY City Transit Authority (NYCTA), as required for intrusive work within 200 ft of subway infrastructure. On November 30, 2012, Arcadis was notified, in writing, that the NYCTA issued a “No Impact” determination with respect to the proposed AS/SVE system installation.
- In April 2013, two AS/SVE pilot test wells were installed. Pilot test activities were conducted in May 2013. Results of the pilot test were reported in the *Pilot Test Summary Report* dated January 2014.
- In February and March 2014, six AS wells and two SVE wells were installed. The wells were developed in May 2014.
- AS/SVE trenching and piping installation was completed in January and February 2015, as per the approved Remedial Action Plan (RAP).
- In June 2015, Alliance Energy LLC (Alliance) purchased the site and requested that the location of the proposed remedial system be changed and placed south of the existing station building. This location was eventually rejected in favor of the location outlined in the approved RAP.

RECENT MONITORING ACTIVITIES

- On July 28 and 31, 2020, five monitoring wells and four IPs were gauged and sampled for dissolved-phase concentrations of BTEX and MTBE.

- LPH was not detected in any of the monitoring wells gauged.
- Groundwater analytical results are summarized on Table 1 and provided on Figure 4. The laboratory analytical report for these sampling events is located in Appendix A.
- Total BTEX concentrations were below NYSDEC Technical and Operational Guidance Series (TOGS) standards and guidance values at all the wells associated with the site except for MW-8.
- Only total xylenes were above standards at MW-8; however, the July 2020 results represent a continuation of declining total BTEX concentrations observed at MW-8. Furthermore, the July 2020 results indicate no rebound of total BTEX in MW-8 (or other site wells) as a result of shutting the AS/SVE system down on April 16, 2020. Hydrographs for selected wells are provided in Appendix C.

RECENT REMEDIAL ACTIVITIES

- OM&M of the AS/SVE system was conducted on January 15, February 12, and March 11, 2020 during this reporting period.
- OM&M has been conducted on a monthly basis since the AS/SVE system came online on February 16, 2017, except for the period from September 7, 2017 through February 15, 2018, when the catalytic oxidizer unit was being sourced and installed.
- Per email correspondence with the NYSDEC dated (April 14, 2020), the system was taken offline April 16, 2020 for rebound monitoring.
- OM&M and mass recovery information are summarized on Table 2. Total BTEX recovered as of March 2020 is 118 pounds (lbs). The total petroleum hydrocarbon (TPH) mass recovered as of March 2020 is 1,883 lbs. Effluent sampling continues to show compliance with benzene discharge limits. See Table 3.

DISCUSSION

The AS/SVE system started operation in February 2017 and has been effective at reducing BTEX concentrations in wells associated with the site. Total BTEX concentrations at MW-8 remained elevated when compared to other site wells; however, through system optimization to target MW-8, total BTEX concentrations have decreased. A Remedial Completion Report was submitted in January 2020 indicating no complete exposure pathways to impacted site media and requesting site closure. NYSDEC denied the closure request and requested that the AS/SVE system be taken offline for rebound monitoring to be conducted 2 to 3 months after system shutdown. The system was taken offline on April 16, 2020 and rebound monitoring was conducted on July 28 and 31, 2020. Results from this sampling event indicate no rebound in BTEX concentrations in any site wells. Furthermore, with the system offline, total BTEX concentrations in MW-8 continued to decrease.

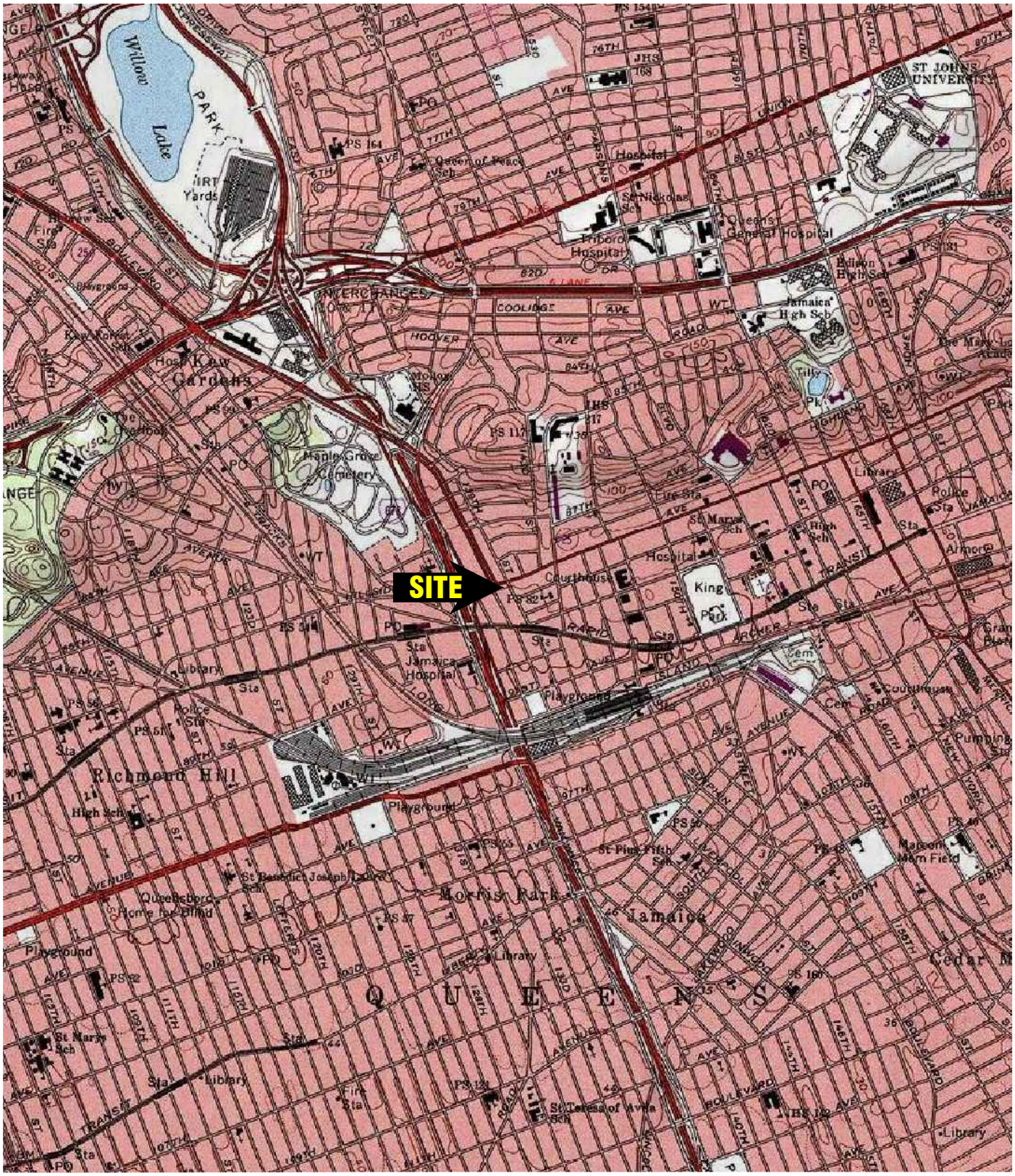
It is Arcadis' conclusion that previous remedial activities have resulted in the removal and reduction of bulk hydrocarbon mass, to the extent feasible, in groundwater at the site and that groundwater quality is expected to continue to improve through ongoing natural degradation processes. Available groundwater analytical data indicates that concentrations of one or more constituents of BTEX and concentrations of

MTBE detected in site groundwater have demonstrated an overall decreasing trend since groundwater sampling was initiated, and that impacts are localized to the site. A review of the surrounding area and site information, as well as NYSDEC restrictions on the installation of potable water supply wells, indicates that these localized impacts do not pose a significant risk to nearby receptors or the surrounding environment. In consideration of the above, and the absence of complete exposure pathways between site-related impacts and potential receptors, Arcadis recommends that no further action is taken at the site and respectfully requests closure of NYSDEC Spill No. 01-01410.

ATTACHMENTS:

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3: Groundwater Contour Map – July 28 & 31, 2020
Figure 4: Groundwater Analytical Map – July 28 & 31, 2020
Table 1: Monitoring Well Gauging and Groundwater Analytical Data
Table 2: AS/SVE Influent Analytical Data
Table 3: AS/SVE Effluent Analytical Data
Appendix A: Groundwater Laboratory Analytical Report
Appendix B: AS/SVE Vapor Analytical Reports
Appendix C: Hydrographs

FIGURES



REFERENCE: TOPO!, USGS 7.5 MINUTE
QUAD: JAMAICA, NEW YORK
DATED: 2010

0 2000' 4000'

GRAPHIC SCALE

MOBIL BRANDED SERVICE STATION
FORMER MOBIL #10954 (17-HMB)
138-50 HILLSIDE AVENUE
JAMAICA, NEW YORK

SITE LOCATION MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
1

CITY: MANCHESTER, CT DIV/GROUP: ENVCAD DB: B. SMALL PM: E.CHOQUETTE
G:\ENVCAD\Manchester\ACT\B00858500\09541B00858500954-APR11.dwg LAYOUT: FIGURE 1 SAVED: 12/6/2011 5:12 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED: 12/14/2011 4:49 PM BY: SMALL, BRIAN

TOYOTA DEALERSHIP

HILLSIDE AVENUE

COMMERCIAL (CAR LOT)

139TH STREET

RESIDENTIAL BUILDING WITH BASEMENT

RESIDENTIAL YARDS

RESIDENTIAL WITH BASEMENTS

APARTMENT BUILDING

COMMERCIAL (KFC RESTAURANT)

QUEENS BOULEVARD

CONCRETE SIDEWALK

ASPHALT

LANDSCAPING

SIGN

LIGHT

FILLED MANHOLE

SUBWAY EMERGENCY HATCH

FORMER USED OIL UST (REMOVED 3-07)

CANOPY

USED OIL AST

(1) FORMER 550-GALLON USED OIL UST (PREVIOUSLY REMOVED)

(1) FORMER 4,000-GALLON UST (REMOVED 10-89)

(12) FORMER 550-GALLON USTs (REMOVED 10-89)

(4) IN-GROUND HYDRAULIC LIFTS

TRAILER

FORMER REMOTE FILLS

VENTS

(5) 4,000-GALLON GASOLINE USTs

MOBIL SERVICE STATION No. 10954 (17-HMB)

COOLING FANS

SPILL RECOVERY CONTAINER

UST VENT

(1) FORMER 550-GALLON FUEL OIL UST (PREVIOUSLY REMOVED)

(3) 55-GALLON DRUMS

DUMPSTER

FUEL OIL UST

MW-1 MW-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-B MW-C

IP-1 IP-2 IP-3 IP-4 IP-5 IP-6

AS-101 AS-102 AS-103 AS-104 AS-105

SVE-101 SVE-102

LEGEND:

- FENCE LINE
- MONITORING WELL
- TANK FIELD WELL
- INJECTION WELL
- CLEAN-OUT
- FIRE HYDRANT
- V VACUUM
- SUBWAY (UNDERGROUND)
- CATCH BASIN
- E ELECTRIC VAULT
- S SEWER VAULT
- W WATER SUPPLY VAULT
- G NATURAL GAS VAULT
- UST UNDERGROUND STORAGE TANK
- AST ABOVE GROUND STORAGE TANK
- APPROXIMATE LOCATION OF SOIL VAPOR EXTRACTION WELL (SVE)
- APPROXIMATE LOCATION OF AIR SPARGE WELL (AS)

NOTE:

1. THIS DRAWING IS REFERENCED FROM THE FOLLOWING:

   A. "GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON DISTRIBUTION MAP", BY: KLEINFELDER, DATED: 10/25/10, SCALE: 1"=30'.

2. LOCATIONS FOR AIR SPARGE (AS) AND SOIL VAPOR EXTRACTION (SVE) WELLS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

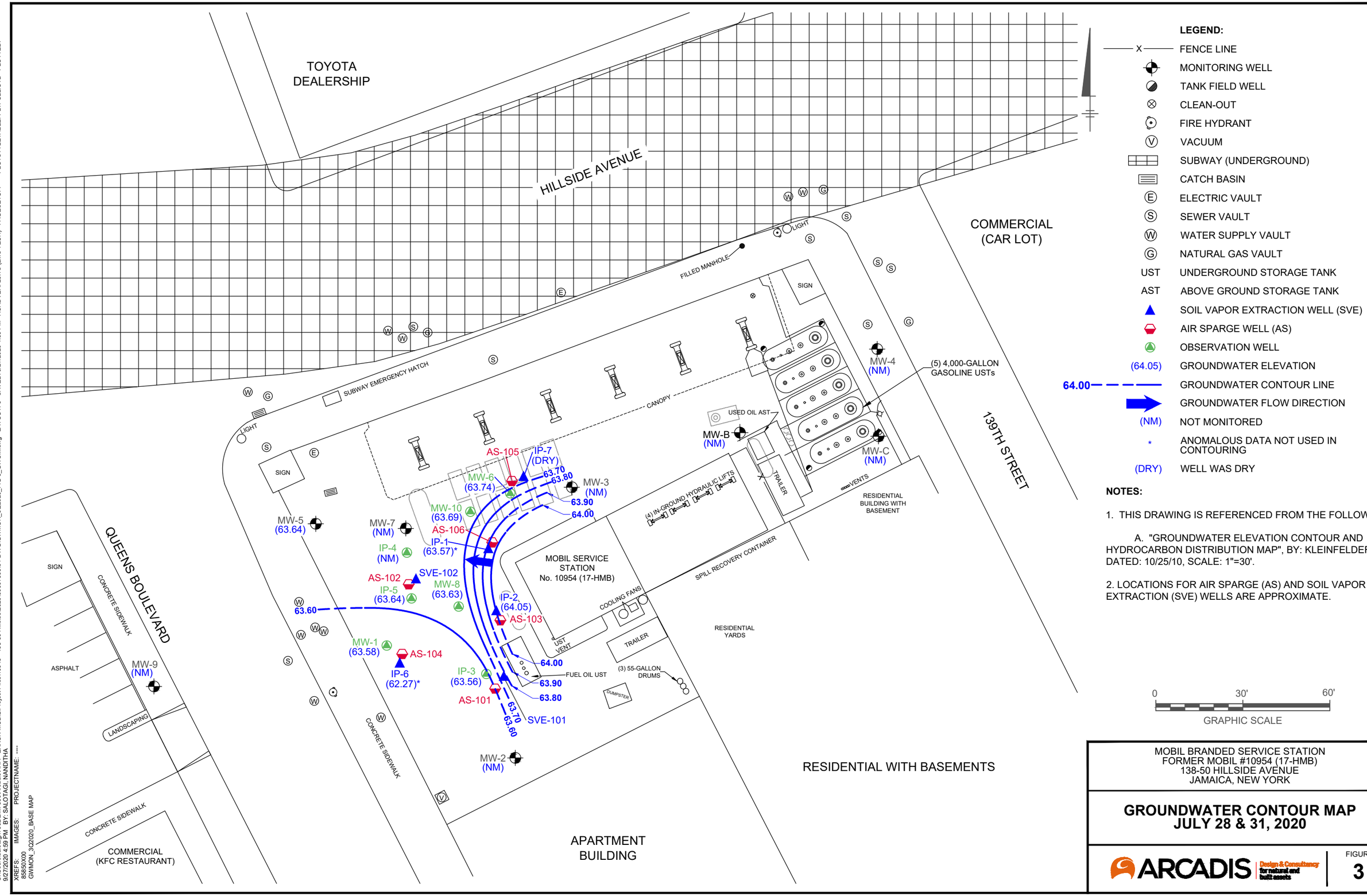
MOBIL BRANDED SERVICE STATION
FORMER MOBIL #10954 (17-HMB)
138-50 HILLSIDE AVENUE
JAMAICA, NEW YORK

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE 2

CITY: BANGALORE; INDIA DIV/GROUP: ENVCAD DB: Y. NIMBARGIKAR LD: PIC: S. DAVIES PM: N.FRASCA TM: G. CUTSHALL LYR: ON=*; OFF=*REF*
K:\Environment - Arcadis\ARCADIS USA\ PROJECTS\1. EXXON MOBIL\NY\UB001767 - 10954 - East River 10954\UB001767-01E-Drawings\85850X01\85850G01.dwg LAYOUT: 2
PLOTTED: 12/8/2015 11:01 AM BY: YOGINATH NIMBARGIKAR SAVED: 12/8/2015 11:01 AM ACADVER: 19.1S (LMS TECH) PAGESETUP: C-LB-PDF PLOTSTYLETABLE: PLTFULL.CTB
XREFS: IMAGES: PROJECTNAME: ----
85850X01
85850X00



LEGEND:

X	FENCE LINE
	MONITORING WELL
	TANK FIELD WELL
	CLEAN-OUT
	FIRE HYDRANT
V	VACUUM
	SUBWAY (UNDERGROUND)
	CATCH BASIN
E	ELECTRIC VAULT
S	SEWER VAULT
W	WATER SUPPLY VAULT
G	NATURAL GAS VAULT
UST	UNDERGROUND STORAGE TANK
AST	ABOVE GROUND STORAGE TANK
	SOIL VAPOR EXTRACTION WELL (SVE)
	AIR SPARGE WELL (AS)
	OBSERVATION WELL
(64.05)	GROUNDWATER ELEVATION
64.00	GROUNDWATER CONTOUR LINE
	GROUNDWATER FLOW DIRECTION
(NM)	NOT MONITORED
*	ANOMALOUS DATA NOT USED IN CONTOURING
(DRY)	WELL WAS DRY

NOTES:

1. THIS DRAWING IS REFERENCED FROM THE FOLLOWINC

   A. "GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON DISTRIBUTION MAP", BY: KLEINFELDER, DATED: 10/25/10, SCALE: 1"=30'.

2. LOCATIONS FOR AIR SPARGE (AS) AND SOIL VAPOR EXTRACTION (SVE) WELLS ARE APPROXIMATE.

0 30' 60'

GRAPHIC SCALE

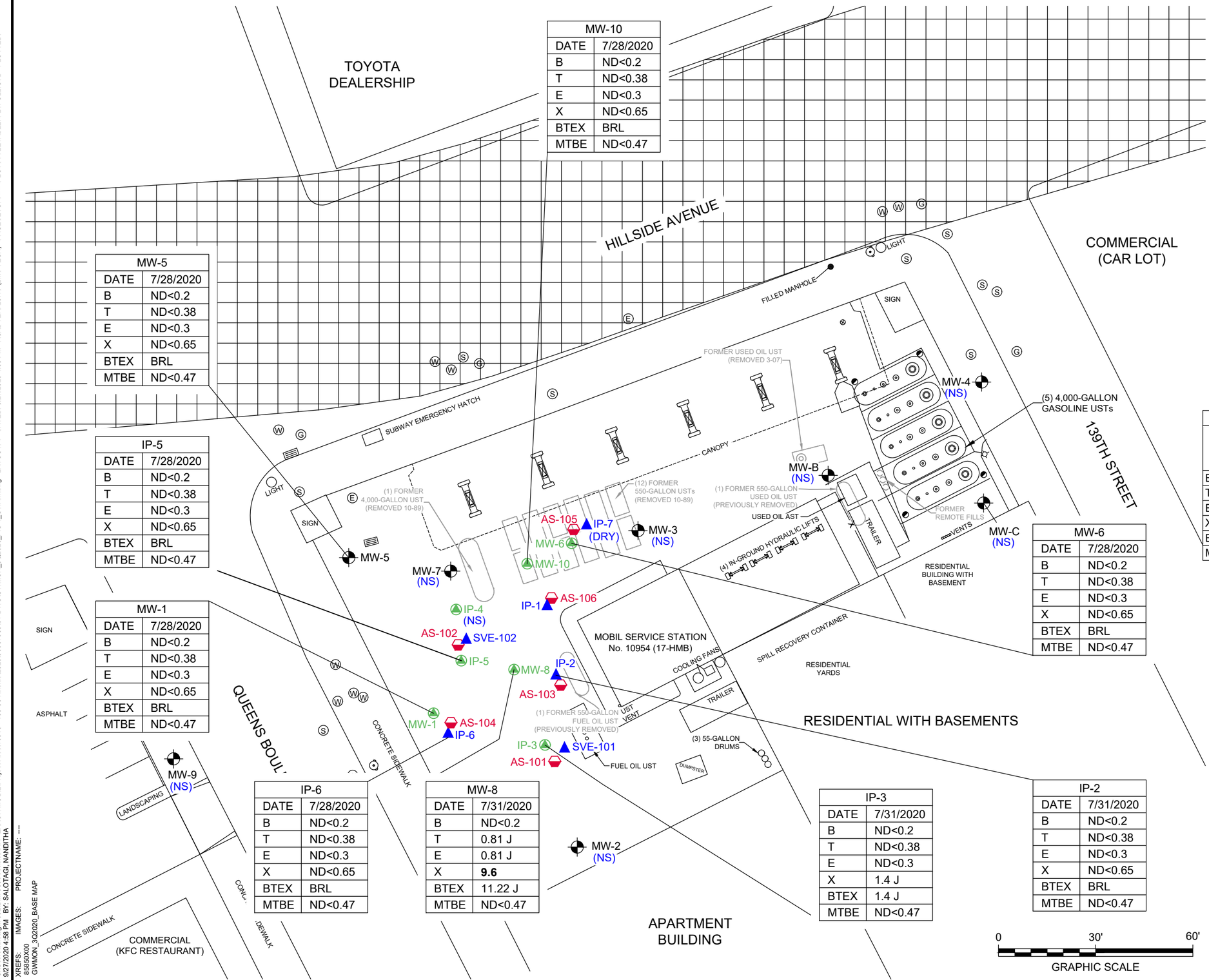
MOBIL BRANDED SERVICE STATION
FORMER MOBIL #10954 (17-HMB)
138-50 HILLSIDE AVENUE
JAMAICA, NEW YORK

GROUNDWATER CONTOUR MAP
JULY 28 & 31, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE
3

CITY: BANGALORE, INDIA DIV/GROUP: ENVCAD DB: Y. NIMBARGIKAR LD: PIC: S. DAVIES PM: N. FRASCA TM: G. CUTSHALL LYR: ON=*; OFF=*REF*
C:\Users\salobagn7992\BIM 360\Arcadis\ANA - EXXON MOBIL\Project Files\10945 - 138-50 Hillside\2020\3000756901-DWG\GWMON_3Q2020_FIG 3_GWCM.dwg LAYOUT: 3 SAVED: 9/27/2020 4:59 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/27/2020 4:59 PM BY: SALOTAGI, NANDITHA
XREFS: IMAGES: PROJECTNAME: ---
85850X00
GWMON_3Q2020_BASE MAP



MW-10	
DATE	7/28/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

MW-5	
DATE	7/28/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

IP-5	
DATE	7/28/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

MW-1	
DATE	7/28/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

MW-6	
DATE	7/28/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

IP-6	
DATE	7/28/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

MW-8	
DATE	7/31/2020
B	ND<0.2
T	0.81 J
E	0.81 J
X	**9.6**
BTEX	11.22 J
MTBE	ND<0.47

IP-3	
DATE	7/31/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	1.4 J
BTEX	1.4 J
MTBE	ND<0.47

IP-2	
DATE	7/31/2020
B	ND<0.2
T	ND<0.38
E	ND<0.3
X	ND<0.65
BTEX	BRL
MTBE	ND<0.47

LEGEND:

- FENCE LINE
- MONITORING WELL
- TANK FIELD WELL
- CLEAN-OUT
- FIRE HYDRANT
- VACUUM
- SUBWAY (UNDERGROUND)
- CATCH BASIN
- ELECTRIC VAULT
- SEWER VAULT
- WATER SUPPLY VAULT
- NATURAL GAS VAULT
- UST UNDERGROUND STORAGE TANK
- AST ABOVE GROUND STORAGE TANK
- SOIL VAPOR EXTRACTION WELL (SVE)
- AIR SPARGE WELL (AS)
- OBSERVATION WELL

WELL IDENTIFICATION	
CONSTITUENT	GROUNDWATER STANDARDS AND GUIDANCE VALUES
B = BENZENE	1
T = TOLUENE	5
E = ETHYLBENZENE	5
X = TOTAL XYLENES	5
BTEX = TOTAL BTEX	--
MTBE = METHYL TERTIARY BUTYL ETHER	10

- < CONSTITUENT NOT DETECTED AT OR BELOW THE INDICATED REPORTING LIMIT
- ND NOT DETECTED
- BRL BELOW LABORATORY REPORTING LIMIT
- (NS) NOT SAMPLED
- (DRY) WELL WAS DRY

NOTES:

1. THIS DRAWING IS REFERENCED FROM THE FOLLOWING:
   A. "GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON DISTRIBUTION MAP", BY: KLEINFELDER, DATED: 10/25/10, SCALE: 1"=30'.
2. ALL UNITS REPORTED IN MICROGRAMS PER LITER (µg/L).
3. BOLDED VALUE INDICIATES RESULT ABOVE NYSDEC STANDARDS AND GUIDANCE VALUES.
4. LOCATIONS FOR AIR SPARGE (AS) AND SOIL VAPOR EXTRACTION (SVE) WELLS ARE APPROXIMATE.

MOBIL BRANDED SERVICE STATION
FORMER MOBIL #10954 (17-HMB)
138-50 HILLSIDE AVENUE
JAMAICA, NEW YORK

GROUNDWATER ANALYTICAL MAP JULY 28 & 31, 2020

ARCADIS Design & Consultancy for natural and built assets

FIGURE 4

CITY: BANGALORE, INDIA DIV/GROUP: ENVCAD DB: Y. NIMBARGIKAR LD: PIC: S.DAVIES PM: N. FRASCA TM: G. CUTSHALL LYR: ON=*; OFF=*REF*
C:\Users\saldagn7992\BIM 360\Arcadis\ANA - EXXON MOBIL\Project Files\10945 - 138-50 Hillside\2020\30007569\01-DWG\GWMON_3Q2020_FIG 4_GWAM.dwg LAYOUT: 4 SAVED: 9/27/2020 4:58 PM ACADVER: 23.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 9/27/2020 4:58 PM BY: SALOTAGI, NANDITHA
XREFS: IMAGES: PROJECTNAME: ----
8580X00
GWMON_3Q2020_BASE MAP

TABLES

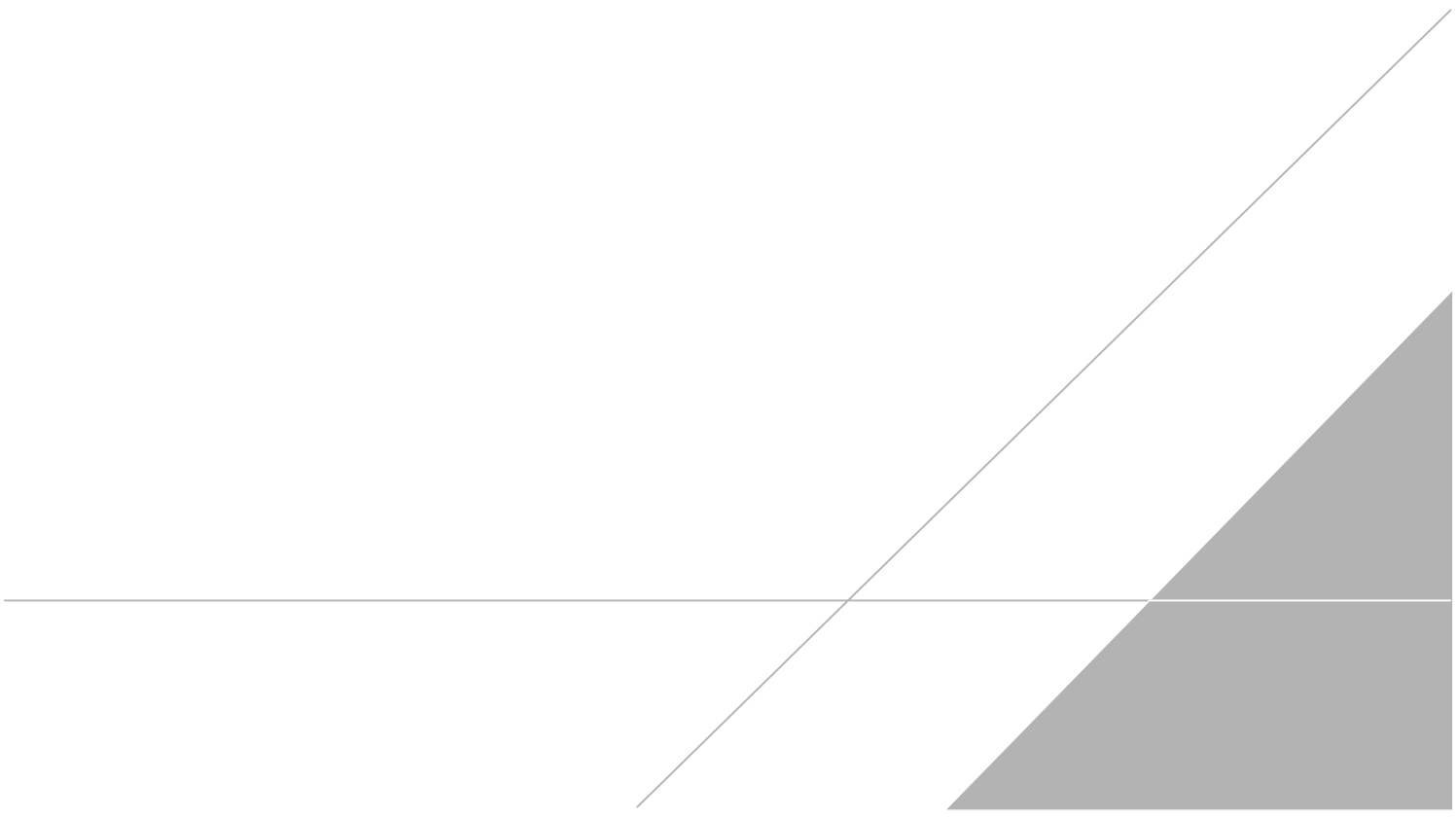


Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

		Gauging Data					Analytical Data								
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	Comments
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-1	2/6/2006	99.70	36.22	ND	ND	63.48	**390**	**7,220**	**2,990**	**12,800**	23,400	ND<10	ND<1,000	NA	
	5/9/2006	99.70	36.42	ND	ND	63.28	**330**	**9,070**	**2,960**	**15,100**	27,460	ND<20	ND<2,000	NA	
	7/14/2006	99.70	35.89	ND	ND	63.81	**223**	**5,480**	**1,280**	**7,530**	14,513	1.4	ND<200	NA	
	10/4/2006	99.70	36.02	ND	ND	63.68	**95.5**	**5,660**	**1,860**	**9,400**	17,016	ND<25	ND<2,500	NA	
	1/10/2007	99.70	36.15	ND	ND	63.55	**67.7**	**6,760**	**2,120**	**11,300**	20,248	ND<50	ND<5,000	NA	
	4/23/2007	99.70	35.98	ND	ND	63.72	**23.1**	**4,920**	**1,910**	**8,880**	15,733	ND<20	ND<2,000	NA	
	7/18/2007	99.70	35.70	ND	ND	64.00	ND<50	**9,330**	**3,550**	**17,200**	30,080	ND<50	ND<5,000	NA	
	10/9/2007	99.70	36.91	ND	ND	62.79	**6.8 J**	**4,460**	**2,230**	**9,250**	15,947	ND<10	ND<100	NA	
	1/11/2008	99.70	36.32	ND	ND	63.38	ND<25	**3,400**	**1,600**	**7,880**	12,880	ND<25	ND<100	NA	
	4/30/2008	99.70	36.57	ND	ND	63.13	ND<50	**5,430**	**3,480**	**14,400**	23,310	ND<50	ND<100	NA	
	7/2/2008	99.70	36.61	ND	ND	63.09	ND<10	**3,930**	**1,640**	**8,630**	14,200	ND<10	ND<100	NA	
	10/15/2008	99.70	36.95	ND	ND	62.75	**6.9 J**	**3,060**	**2,670**	**13,900**	19,637	ND<20	ND<100	NA	
	1/21/2009	99.70	36.75	ND	ND	62.95	ND<25	**4,850**	**3,740**	**19,200**	27,790	ND<25	ND<100	NA	
	4/8/2009	99.70	37.11	ND	ND	62.59	ND<20	**3,320**	**3,330**	**15,700**	22,350	ND<20	ND<100	NA	
	7/7/2009	99.70	36.62	ND	ND	63.08	ND<20	**3,030**	**2,850**	**11,700**	17,580	ND<20	ND<100	0.74	
	10/28/2009	99.70	36.71	ND	ND	62.99	ND<20	**1,720**	**3,000**	**9,530**	14,250	ND<20	ND<100	1.48	
	1/19/2010	99.70	36.61	ND	ND	63.09	ND<20	**1,540**	**2,450**	**8,350**	12,340	ND<20	ND<100	1.19	
	4/26/2010	99.70	35.14	ND	ND	64.56	ND<10	**1,500**	**2,100**	**8,130**	11,730	ND<10	ND<100	1.15	
	7/14/2010	99.70	35.75	ND	ND	63.95	ND<25	**1,140**	**1,850**	**7,980**	10,970	ND<25	ND<100	2.79	
	10/1/2010	99.70	36.44	ND	ND	63.26	ND<20	**665**	**1,610**	**7,020**	9,295	ND<20	ND<100	1.95	
	1/24/2011	99.70	37.12	ND	ND	62.58	ND<3.0	**640**	**2,500**	**10,000**	13,140	3.0 J	ND<200	0.79	
	4/17/2011	99.70	36.34	ND	ND	63.36	1 J	**330**	**1,900**	**5,900**	8,131	1 J	ND<200	2.46	
	7/8/2011	99.70	36.34	ND	ND	63.36	ND<3.0	**360**	**2,100**	**7,800**	10,260	ND<3.0	ND<200	NA	
	10/25/2011	99.70	35.18	ND	ND	64.52	ND<3.0	**210**	**1,100**	**4,100**	5,410	ND<3.0	NA	NA	
	4/19/2012	99.70	36.51	ND	ND	63.19	ND<3.0	**270**	**1,600**	**8,000**	9,870	ND<3.0	NA	NA	
	10/3/2012	99.70	36.65	ND	ND	63.05	ND<3.0	**260**	**2,600**	**13,000**	15,860	ND<3.0	NA	NA	
	4/11/2013	99.70	37.15	ND	ND	62.55	ND<5.0	**110**	**1,600**	**7,800**	9,510	ND<5.0	NA	NA	
	10/17/2013	99.70	37.28	ND	ND	62.42	**11**	**87**	**1,800**	**8,200**	10,098	**21**	NA	NA	
	4/22/2014	99.70	37.24	ND	ND	62.46	ND<10	**69**	**2,300**	**11,000**	13,369	ND<10	NA	NA	
	10/23/2014	99.70	37.04	ND	ND	62.66	ND<13	**60**	**2,600**	**13,000**	15,660	ND<13	NA	NA	
	4/6/2015	99.70	36.40	ND	ND	63.30	ND<3.0	**22**	**980**	**5,800**	6,802	ND<3.0	NA	NA	
	10/1/2015	99.70	37.13	ND	ND	62.57	ND<0.5	4	**490**	**1,200**	1,694	1	NA	NA	
	4/7/2016	99.70	37.37	ND	ND	62.33	ND<5.0	**10**	**1,600**	**7,600**	9,210	ND<5.0	NA	NA	
	10/31/2016	99.70	38.19	ND	ND	61.51	ND<3.0	4 J	**900**	**3,200**	4,104 J	ND<3.0	NA	NA	
	4/18/2017	99.70	37.55	ND	ND	62.15	ND<1.0	4	**1,100**	**3,400**	4,504	ND<1.0	NA	NA	
	10/6/2017	99.70	37.01	ND	ND	62.69	ND<0.5	2	**190**	**220**	412	ND<0.5	NA	NA	
	4/6/2018	99.70	36.82	ND	ND	62.88	ND<0.5	0.7 J	**26**	**1,000**	1027 J	ND<0.5	NA	NA	
	10/31/2018	99.70	36.72	ND	ND	62.98	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	99.70	35.49	ND	ND	64.21	ND<0.2	ND<0.2	ND<0.4	3 J	3 J	ND<0.2	NA	NA	
	7/30/2019	99.70	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	99.70	36.36	ND	ND	63.34	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/28/2020	99.70	36.12	ND	ND	63.58	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	
MW-2	2/6/2006	99.82	36.25	ND	ND	63.57	**23.7**	**31.7**	**106**	**1,120**	1,281	**11.1**	ND<100	NA	
	5/9/2006	99.82	36.45	ND	ND	63.37	**31.6**	**79.6**	**309**	**978**	1,398	6.9	ND<100	NA	
	7/14/2006	99.82	35.90	ND	ND	63.92	**46.2**	**290**	**1,140**	**3,700**	5,176	2.6	ND<200	NA	
	10/4/2006	99.82	36.05	ND	ND	63.77	**44.6**	**250**	**559**	**1,710**	2,564	2.6	ND<200	NA	
	1/10/2007	99.82	36.18	ND	ND	63.64	**86.0**	**426**	**892**	**2,580**	3,984	2.5	ND<250	NA	
	4/23/2007	99.82	36.00	ND	ND	63.82	**13.4**	**14.1**	**195**	**443**	666	**15.7**	ND<100	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-2 (continued)	7/18/2007	99.82	35.75	ND	ND	64.07	**22.8**	**20.2**	**46.9**	**231**	321	7.1	ND<100	NA	
	10/9/2007	99.82	35.45	ND	ND	64.37	**6.3**	1.5	**11.3**	**24.2**	43.3	7.0	ND<100	NA	
	1/11/2008	99.82	36.38	ND	ND	63.44	**14.6**	**12.0**	**273**	**499**	799	ND<2.5	ND<100	NA	
	4/30/2008	99.82	36.60	ND	ND	63.22	**3.9**	**21.0**	**331**	**624**	980	2.8	ND<100	NA	
	7/2/2008	99.82	36.62	ND	ND	63.20	**1.2**	1.5	**32.4**	**20.8**	55.9	**10.5**	ND<100	NA	
	10/15/2008	99.82	36.92	ND	ND	62.90	**1.8**	**44.2**	**463**	**1,570**	2,079	8.8	ND<100	NA	
	1/21/2009	99.82	36.75	ND	ND	63.07	0.86 J	**19.3**	**400**	**316**	736	**32.1**	ND<100	NA	
	4/8/2009	99.82	37.11	ND	ND	62.71	**1.5 J**	**17.4**	**324**	**259**	602	**20.7**	ND<100	NA	
	7/7/2009	99.82	36.63	ND	ND	63.19	1.0	1.5	**28.1**	**50.2**	80.8	**29.6**	ND<100	1.22	
	10/28/2009	99.82	36.72	ND	ND	63.10	0.83 J	**19.1**	**455**	**763**	1,238	0.31 J	ND<100	1.56	
	1/19/2010	99.82	36.61	ND	ND	63.21	0.95 J	**13.0**	**304**	**238**	556	3.1	ND<100	1.27	
	4/26/2010	99.82	35.16	ND	ND	64.66	0.68 J	**11.8**	**357**	**288**	657	0.71 J	ND<100	1.14	
	7/14/2010	99.82	35.75	ND	ND	64.07	**1.1**	2.2	**21.5**	**31.1**	55.9	2.6	ND<100	2.14	
	10/1/2010	99.82	36.45	ND	ND	63.37	ND<5.0	**32.7**	**548**	**1,050**	1,631	ND<5.0	ND<100	3.02	
	1/24/2011	Unable to locate well under snow					NS	NS	NS	NS	NS	NS	NS	NS	Unable to locate.
	4/17/2011	99.82	36.34	ND	ND	63.48	0.7 J	**13**	**270**	**280**	563.7	ND<0.5	ND<200	1.98	
	7/8/2011	99.82	36.36	ND	ND	63.46	1.0	0.9 J	**21**	**11**	33.9	1 J	ND<200	NA	
	10/25/2011	99.82	35.19	ND	ND	64.63	0.6 J	**11**	**140**	**290**	442	ND<0.5	NA	NA	
	4/19/2012	99.82	36.50	ND	ND	63.32	0.7 J	1	**38**	**8**	47.7	0.8 J	NA	NA	
	10/3/2012	99.82	36.64	ND	ND	63.18	1 J	**6**	**220**	**360**	587	1 J	NA	NA	
	4/11/2013	99.82	37.16	ND	ND	62.66	**2**	**8**	**210**	**340**	560	1	NA	NA	
	10/17/2013	99.82	37.32	ND	ND	62.50	0.7 J	0.9 J	0.9 J	2	4.5	0.9 J	NA	NA	
	4/22/2014	99.82	37.28	ND	ND	62.54	ND<0.5	0.6 J	0.9 J	16	17.5	1 J	NA	NA	
	10/23/2014	99.82	37.04	ND	ND	62.78	ND<0.5	ND<0.5	ND<0.5	1	1	ND<0.5	NA	NA	
	4/6/2015	99.82	36.44	ND	ND	63.38	ND<0.5	ND<0.5	1	0.9 J	1.9 J	ND<0.5	NA	NA	
	10/1/2015	99.82	37.11	ND	ND	62.71	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/7/2016	99.82	37.41	ND	ND	62.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2016	99.82	38.15	ND	ND	61.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/18/2017	99.82	38.84	ND	ND	60.98	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	99.82	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	4/6/2018	99.82	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	10/31/2018	99.82	36.72	ND	ND	63.10	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	99.82	35.48	ND	ND	64.34	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	99.82	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	99.82	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	99.82	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
MW-3	2/6/2006	101.72	38.22	ND	ND	63.50	0.64 J	**8.0**	**29.0**	**165**	203	2.9	ND<100	NA	
	5/9/2006	101.72	38.42	ND	ND	63.30	0.46 J	0.57 J	2.5	**12.9**	16.4	4.2	ND<100	NA	
	7/14/2006	101.72	37.88	ND	ND	63.84	ND<0.50	ND<1.0	ND<1.0	ND<1.0	BRL	1.6	ND<200	NA	
	10/4/2006	101.72	38.00	ND	ND	63.72	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	1.0	ND<100	NA	
	1/10/2007	101.72	38.15	ND	ND	63.57	0.44 J	ND<1.0	ND<1.0	0.48 J	0.9	2.1	ND<100	NA	
	4/23/2007	101.72	38.00	ND	ND	63.72	0.36 J	ND<1.0	0.23 J	0.57 J	1.16	1.3	ND<100	NA	
	7/18/2007	101.72	37.73	ND	ND	63.99	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	0.40 J	ND<100	NA	
	10/9/2007	101.72	38.90	ND	ND	62.82	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	1/11/2008	101.72	38.31	ND	ND	63.41	ND<1.0	ND<1.0	ND<1.0	0.58 J	0.5	ND<1.0	ND<100	NA	
	4/30/2008	101.72	38.59	ND	ND	63.13	ND<1.0	0.33 J	0.39 J	1.8	2.5	ND<1.0	ND<100	NA	
	7/2/2008	101.72	38.61	ND	ND	63.11	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	10/15/2008	101.83	38.98	ND	ND	62.85	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

		Gauging Data					Analytical Data								
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	Comments
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-3 (continued)	1/21/2009	101.83	38.76	ND	ND	63.07	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	4/8/2009	101.83	39.11	ND	ND	62.72	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	7/7/2009	101.83	38.64	ND	ND	63.19	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	1.01	
	10/28/2009	101.83	38.69	ND	ND	63.14	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	1.74	
	1/19/2010	101.83	38.60	ND	ND	63.23	ND<1.0	ND<1.0	ND<1.0	0.33 J	0.33	ND<1.0	ND<100	2.56	
	4/26/2010	101.83	37.14	ND	ND	64.69	ND<1.0	0.39 J	ND<1.0	ND<1.0	0.39	ND<1.0	ND<100	1.70	
	7/14/2010	101.83	37.74	ND	ND	64.09	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	2.71	
	10/1/2010	101.83	38.42	ND	ND	63.41	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	0.68	
	1/24/2011	101.83	39.04	ND	ND	62.79	ND<0.5	ND<0.5	ND<0.5	3.0	3.0	ND<0.5	ND<200	0.69	
	4/17/2011	101.83	38.35	ND	ND	63.48	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	1.12	
	7/8/2011	101.83	38.35	ND	ND	63.48	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	NA	
	10/25/2011	101.83	37.14	ND	ND	64.69	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/19/2012	101.83	38.49	ND	ND	63.34	ND<0.5	ND<0.5	ND<0.5	0.9 J	0.9	ND<0.5	NA	NA	
	10/3/2012	101.83	38.64	ND	ND	63.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/11/2013	101.83	39.15	ND	ND	62.68	ND<0.5	ND<0.5	ND<0.5	1	1	ND<0.5	NA	NA	
	10/17/2013	101.83	39.25	ND	ND	62.58	ND<0.5	ND<0.5	ND<0.5	0.5 J	0.5	ND<0.5	NA	NA	
	4/22/2014	101.83	39.24	ND	ND	62.59	ND<0.5	ND<0.5	ND<0.5	3	3	ND<0.5	NA	NA	
	10/23/2014	101.83	39.04	ND	ND	62.79	ND<0.5	ND<0.5	ND<0.5	0.9 J	0.9	ND<0.5	NA	NA	
	4/6/2015	101.83	38.39	ND	ND	63.44	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	101.83	39.13	ND	ND	62.70	ND<3.0	ND<3.0	ND<3.0	ND<3.0	BRL	ND<3.0	NA	NA	
	4/7/2016	101.83	39.36	ND	ND	62.47	ND<0.5	ND<0.5	1	8	9	ND<0.5	NA	NA	
	10/31/2016	101.83	40.22	ND	ND	61.61	ND<0.5	ND<0.5	ND<0.5	0.8 J	0.8 J	ND<0.5	NA	NA	
	4/18/2017	101.83	39.55	ND	ND	62.28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	101.83	39.01	ND	ND	62.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/6/2018	101.83	39.84	ND	ND	61.99	ND<0.5	ND<0.5	ND<0.5	4	4	ND<0.5	NA	NA	
	10/31/2018	101.83	38.98	ND	ND	62.85	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	101.83	38.03	ND	ND	63.80	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	101.83	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	101.83	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	101.83	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
MW-4	2/6/2006	101.29	37.65	ND	ND	63.64	0.25 J	ND<1.0	ND<1.0	0.41 J	0.66	3.2	ND<100	NA	
	5/9/2006	101.29	37.83	ND	ND	63.46	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	0.36 J	ND<100	NA	
	7/14/2006	101.29	37.31	ND	ND	63.98	ND<0.5	ND<1.0	ND<1.0	ND<1.0	BRL	2.6	ND<200	NA	
	10/4/2006	101.29	37.41	ND	ND	63.88	**2.4**	ND<1.0	ND<1.0	ND<1.0	2.4	4.5	ND<100	NA	
	1/10/2007	101.29	37.55	ND	ND	63.74	**12.4**	ND<1.0	ND<1.0	ND<1.0	12.4	8.0	ND<100	NA	
	4/23/2007	101.29	37.37	ND	ND	63.92	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	1.5	ND<100	NA	
	7/18/2007	101.29	37.10	ND	ND	64.19	0.40 J	ND<1.0	ND<1.0	ND<1.0	0.40	6.0	ND<100	NA	
	10/9/2007	101.29	36.82	ND	ND	64.47	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	2.8	ND<100	NA	
	1/11/2008	101.29	37.71	ND	ND	63.58	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	0.41 J	ND<100	NA	
	4/30/2008	101.29	37.96	ND	ND	63.33	ND<1.0	ND<1.0	ND<1.0	1.2	1.2	ND<1.0	ND<100	NA	
	7/2/2008	101.29	38.00	ND	ND	63.29	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	2.1	ND<100	NA	
	10/15/2008	101.29	38.31	ND	ND	62.98	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	1.5	ND<100	NA	
	1/21/2009	101.29	38.04	ND	ND	63.25	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	2.2	ND<100	NA	
	4/8/2009	101.29	38.45	ND	ND	62.84	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	3.0	ND<100	NA	
	7/7/2009	101.29	38.02	ND	ND	63.27	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	1.7	ND<100	1.20	
	10/28/2009	101.29	38.09	ND	ND	63.20	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	1.9	ND<100	1.90	
	1/19/2010	101.29	37.90	ND	ND	63.39	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	2.21	
	4/26/2010	101.29	36.50	ND	ND	64.79	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	0.61 J	ND<100	5.27	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-4 (continued)	7/14/2010	101.29	37.14	ND	ND	64.15	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	5.19	
	10/1/2010	101.29	37.82	ND	ND	63.47	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	1.5	ND<100	2.64	
	1/24/2011	101.29	38.52	ND	ND	62.77	ND<0.5	ND<0.5	ND<0.5	0.7 J	0.7	ND<0.5	ND<200	4.40	
	4/17/2011	101.29	37.72	ND	ND	63.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.8 J	ND<200	3.25	
	7/8/2011	101.29	37.74	ND	ND	63.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.7 J	ND<200	NA	
	10/25/2011	101.29	36.58	ND	ND	64.71	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/19/2012	101.29	37.87	ND	ND	63.42	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	3	NA	NA	
	10/3/2012	101.29	38.04	ND	ND	63.25	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/11/2013	101.29	38.52	ND	ND	62.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/17/2013	101.29	38.65	ND	ND	62.64	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/22/2014	101.29	38.63	ND	ND	62.66	ND<0.5	ND<0.5	ND<0.5	0.6 J	0.6	ND<0.5	NA	NA	
	10/23/2014	101.29	38.42	ND	ND	62.87	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/6/2015	101.29	37.79	ND	ND	63.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	101.29	38.52	ND	ND	62.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/7/2016	101.29	38.75	ND	ND	62.54	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2016	101.29	39.59	ND	ND	61.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/18/2017	101.29	39.05	ND	ND	62.24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	101.29	38.30	ND	ND	62.99	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/6/2018	101.29	38.28	ND	ND	63.01	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2018	101.29	38.24	ND	ND	63.05	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	101.29	37.07	ND	ND	64.22	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	101.29	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	101.29	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	101.29	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
MW-5	7/14/2006	99.30	35.71	ND	ND	63.59	ND<0.50	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<200	NA	
	10/4/2006	99.30	35.94	ND	ND	63.36	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	1/10/2007	99.30	35.96	ND	ND	63.34	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	4/23/2007	99.30	35.82	ND	ND	63.48	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	7/18/2007	99.30	35.55	ND	ND	63.75	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	10/9/2007	99.30	35.25	ND	ND	64.05	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	1/11/2008	99.30	36.16	ND	ND	63.14	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	4/30/2008	99.30	36.40	ND	ND	62.90	ND<1.0	0.61 J	0.55 J	3.6	4.8	ND<1.0	ND<100	NA	
	7/2/2008	99.30	36.46	ND	ND	62.84	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	10/15/2008	99.59	36.79	ND	ND	62.80	ND<1.0	ND<1.0	0.28 J	0.76 J	1.04	ND<1.0	ND<100	NA	
	1/21/2009	99.59	36.61	ND	ND	62.98	0.31 J	ND<1.0	ND<1.0	ND<1.0	0.31	ND<1.0	ND<100	NA	
	4/8/2009	99.59	36.96	ND	ND	62.63	0.31 J	ND<1.0	ND<1.0	ND<1.0	0.31	ND<1.0	ND<100	NA	
	7/7/2009	99.59	36.46	ND	ND	63.13	0.39 J	ND<1.0	ND<1.0	ND<1.0	0.39	ND<1.0	ND<100	1.05	
	10/28/2009	99.59	36.53	ND	ND	63.06	0.25 J	ND<1.0	ND<1.0	ND<1.0	0.25	ND<1.0	ND<100	3.42	
	1/19/2010	99.59	36.45	ND	ND	63.14	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	1.74	
	4/26/2010	99.59	34.96	ND	ND	64.63	0.23 J	ND<1.0	ND<1.0	ND<1.0	0.23	ND<1.0	ND<100	1.93	
	7/14/2010	99.59	35.56	ND	ND	64.03	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	4.64	
	10/1/2010	99.59	36.26	ND	ND	63.33	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	0.98	
	1/24/2011	99.59	37.01	ND	ND	62.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	1.31	
	4/17/2011	99.59	36.16	ND	ND	63.43	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	1.88	
	7/8/2011	99.59	36.17	ND	ND	63.42	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	NA	
	10/25/2011	99.59	35.02	ND	ND	64.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/19/2012	99.59	36.34	ND	ND	63.25	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/3/2012	99.59	36.48	ND	ND	63.11	ND<0.5	ND<0.5	ND<0.5	0.6 J	0.6	ND<0.5	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-5 (continued)	4/11/2013	99.59	37.01	ND	ND	62.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/17/2013	99.59	37.10	ND	ND	62.49	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/22/2014	99.59	37.10	ND	ND	62.49	ND<0.5	ND<0.5	ND<0.5	1	1	ND<0.5	NA	NA	
	10/23/2014	99.59	36.86	ND	ND	62.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/6/2015	99.59	36.24	ND	ND	63.35	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	99.59	36.96	ND	ND	62.63	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/7/2016	99.59	37.21	ND	ND	62.38	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2016	99.59	38.05	ND	ND	61.54	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/18/2017	99.59	37.42	ND	ND	62.17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	99.59	37.85	ND	ND	61.74	ND<0.5	ND<0.5	ND<0.5	2	2	0.7 J	NA	NA	
	4/6/2018	99.59	36.66	ND	ND	62.93	ND<0.5	ND<0.5	**47**	**440**	487	ND<0.5	NA	NA	
	10/31/2018	99.59	36.63	ND	ND	62.96	ND<0.2	ND<0.2	1	**70**	71	ND<0.2	NA	NA	
	4/2/2019	99.59	35.49	ND	ND	64.10	ND<0.2	ND<0.2	ND<0.4	2 J	2 J	ND<0.2	NA	NA	
	7/30/2019	99.59	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	99.59	35.71	ND	ND	63.88	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/28/2020	99.59	35.95	ND	ND	63.64	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	
MW-6	4/30/2008	100.91	37.99	ND	ND	62.92	**9.9 J**	**1,760**	**4,220**	**25,300**	31,290	ND<25	ND<100	NA	
	7/2/2008	100.91	38.02	ND	ND	62.89	ND<50	**1,160**	**2,830**	**14,600**	18,590	ND<50	ND<100	NA	
	10/15/2008	101.27	38.35	ND	ND	62.92	ND<50	**745**	**2,450**	**14,900**	18,095	ND<50	ND<100	NA	
	1/21/2009	101.27	38.17	ND	ND	63.10	**7.6 J**	**1,260**	**2,350**	**16,100**	19,718	6.6 J	ND<100	NA	
	4/8/2009	101.27	38.50	ND	ND	62.77	ND<50	**1,530**	**2,390**	**15,800**	19,720	ND<50	ND<100	NA	
	7/7/2009	101.27	38.03	ND	ND	63.24	**5.0**	**731**	**1,230**	**8,790**	10,756	4.4 J	ND<100	1.34	
	10/28/2009	101.27	38.08	ND	ND	63.19	ND<20	**932**	**1,680**	**9,500**	12,112	ND<20	ND<100	1.33	
	1/19/2010	101.27	38.01	ND	ND	63.26	ND<20	**858**	**1,550**	**8,110**	10,518	ND<20	ND<100	1.35	
	4/26/2010	101.27	36.55	ND	ND	64.72	**3.7 J**	**740**	**1,530**	**7,830**	10,104	ND<10	ND<100	2.36	
	7/14/2010	101.27	37.15	ND	ND	64.12	ND<20	**744**	**1,340**	**7,650**	9,734	ND<20	ND<100	3.28	
	10/1/2010	101.27	37.81	ND	ND	63.46	**2.5 J**	**415**	**962**	**5,300**	6,680	ND<10	ND<100	0.65	
	1/24/2011	101.27	38.55	ND	ND	62.72	**8.0**	**2,000**	**2,500**	**19,000**	23,508	3.0 J	ND<200	0.79	
	4/17/2011	101.27	37.75	ND	ND	63.52	**5**	**970**	**1,800**	**13,000**	15,775	3 J	ND<200	1.22	
	7/8/2011	101.27	37.74	ND	ND	63.53	**2**	**400**	**910**	**6,000**	7,312	ND<1.0	ND<200	NA	
	10/25/2011	101.27	36.56	ND	ND	64.71	ND<3.0	**370**	**930**	**6,400**	7,700	ND<3.0	NA	NA	
	4/19/2012	101.27	37.90	ND	ND	63.37	**2**	**340**	**1,100**	**8,300**	9,742	1	NA	NA	
	10/3/2012	101.27	38.04	ND	ND	63.23	ND<3.0	**350**	**910**	**6,100**	7,360	ND<3.0	NA	NA	
	4/11/2013	101.27	38.57	ND	ND	62.70	ND<3.0	**86**	**660**	**4,300**	5,046	ND<3.0	NA	NA	
	10/17/2013	101.27	38.66	ND	ND	62.61	ND<3.0	**120**	**650**	**4,400**	5,170	ND<3.0	NA	NA	
	4/22/2014	101.27	38.66	ND	ND	62.61	ND<3.0	**160**	**640**	**7,000**	7,800	ND<3.0	NA	NA	
	10/23/2014	101.27	38.43	ND	ND	62.84	1 J	**180**	**1,200**	**9,700**	11,081	1 J	NA	NA	
	4/6/2015	101.27	37.78	ND	ND	63.49	ND<5.0	**45**	**1,400**	**11,000**	12,445	ND<5.0	NA	NA	
	10/1/2015	101.27	38.53	ND	ND	62.74	ND<5.0	**34**	**540**	**3,600**	4,174	ND<5.0	NA	NA	
	4/7/2016	101.27	38.77	ND	ND	62.50	ND<3.0	26	300	1,700	2,026	ND<3.0	NA	NA	
	10/31/2016	101.27	39.60	ND	ND	61.67	ND<10	**230**	**580**	**10,000**	10,810	ND<10	NA	NA	
	4/18/2017	101.27	38.97	ND	ND	62.30	ND<0.5	1	**190**	**220**	411	ND<0.5	NA	NA	
	10/6/2017	101.27	38.41	ND	ND	62.86	ND<0.5	2	**34**	**530**	566	ND<0.5	NA	NA	
	4/6/2018	101.27	38.30	ND	ND	62.97	ND<0.5	**220**	**180**	**4,300**	4,700	ND<0.5	NA	NA	
	10/31/2018	101.27	38.30	ND	ND	62.97	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	101.27	39.29	ND	ND	61.98	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	101.27	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	101.27	40.90	ND	ND	60.37	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/28/2020	101.27	37.53	ND	ND	63.74	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-7	4/30/2008	99.95	37.15	ND	ND	62.80	ND<5.0	**13.2**	**837**	**5,110**	5,960	2.1 J	ND<100	NA	
	7/2/2008	99.95	37.19	ND	ND	62.76	ND<5.0	4.9 J	**584**	**2,480**	3,069	ND<5.0	ND<100	NA	
	10/15/2008	100.28	37.54	ND	ND	62.74	ND<5.0	ND<5.0	**414**	**1,430**	1,844	ND<5.0	ND<100	NA	
	1/21/2009	100.28	37.35	ND	ND	62.93	ND<10	ND<10	**679**	**2,750**	3,429	ND<10	ND<100	NA	
	4/8/2009	100.28	37.70	ND	ND	62.58	ND<5.0	ND<5.0	**563**	**2,030**	2,593	ND<5.0	ND<100	NA	
	7/7/2009	100.28	37.20	ND	ND	63.08	ND<2.5	ND<2.5	**334**	**1,450**	1,784	ND<2.5	ND<100	1.20	
	10/28/2009	100.28	37.27	ND	ND	63.01	ND<5.0	ND<5.0	**612**	**2,480**	3,092	ND<5.0	ND<100	1.36	
	1/19/2010	100.28	37.18	ND	ND	63.10	ND<5.0	ND<5.0	**464**	**1,620**	2,084	ND<5.0	ND<100	1.25	
	4/26/2010	100.28	35.70	ND	ND	64.58	ND<2.5	1.7 J	**598**	**2,230**	2,830	ND<2.5	ND<100	1.50	
	7/14/2010	100.28	36.31	ND	ND	63.97	ND<2.5	ND<2.5	**359**	**1,100**	1,459	ND<2.5	ND<100	3.56	
	10/1/2010	100.28	37.02	ND	ND	63.26	ND<5.0	ND<5.0	**455**	**1,720**	2,175	ND<5.0	ND<100	1.02	
	1/24/2011	100.28	37.74	ND	ND	62.54	ND<0.5	ND<0.5	**180**	**580**	760	ND<0.5	ND<200	0.82	
	4/17/2011	100.28	36.92	ND	ND	63.36	ND<0.5	ND<0.5	**21**	**56**	77	ND<0.5	ND<200	1.54	
	7/8/2011	100.28	36.15	ND	ND	64.13	ND<0.5	ND<0.5	**250**	**500**	750	ND<0.5	ND<200	NA	
	10/25/2011	100.28	35.75	ND	ND	64.53	ND<1.0	ND<1.0	**300**	**1,300**	1,600	ND<1.0	NA	NA	
	4/19/2012	100.28	37.08	ND	ND	63.20	ND<0.5	ND<0.5	**32**	**130**	162	ND<0.5	NA	NA	
	10/3/2012	100.28	37.22	ND	ND	63.06	ND<0.5	ND<0.5	**6**	**13**	19	ND<0.5	NA	NA	
	4/11/2013	100.28	37.75	ND	ND	62.53	ND<0.5	ND<0.5	**140**	**540**	680	ND<0.5	NA	NA	
	10/17/2013	100.28	37.85	ND	ND	62.43	ND<0.5	ND<0.5	ND<0.5	0.8 J	0.8	ND<0.5	NA	NA	
	4/22/2014	100.28	37.84	ND	ND	62.44	ND<0.5	ND<0.5	0.7 J	1	1.7	ND<0.5	NA	NA	
	10/23/2014	100.28	37.62	ND	ND	62.66	ND<0.5	ND<0.5	0.9 J	5	5.9	ND<0.5	NA	NA	pad is sunken/cracked
	4/6/2015	100.28	36.96	ND	ND	63.32	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	100.28	37.69	ND	ND	62.59	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/7/2016	100.28	38.94	ND	ND	61.34	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2016	100.28	38.78	ND	ND	61.50	ND<0.5	ND<0.5	3	**14**	17	ND<0.5	NA	NA	
	4/18/2017	100.28	38.14	ND	ND	62.14	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	100.28	36.70	ND	ND	63.58	ND<0.5	ND<0.5	ND<0.5	2	2	ND<0.5	NA	NA	
	4/6/2018	100.28	37.45	ND	ND	62.83	ND<0.5	ND<0.5	ND<0.5	**9**	9	ND<0.5	NA	NA	
	10/31/2018	100.28	37.38	ND	ND	62.90	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	100.28	36.37	ND	ND	63.91	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	100.28	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	100.28	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	100.28	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
MW-8	4/30/2008	100.74	37.89	ND	ND	62.85	**89.2**	**14,600**	**5,130**	**23,700**	43,519	ND<50	ND<100	NA	
	7/2/2008	100.74	37.90	ND	ND	62.84	**53.2**	**10,800**	**3,270**	**16,800**	30,923	ND<50	ND<100	NA	
	10/15/2008	101.08	38.27	ND	ND	62.81	**41.2**	**8,630**	**2,520**	**10,400**	21,591	ND<20	ND<100	NA	
	1/21/2009	101.08	38.07	ND	ND	63.01	**34.6 J**	**15,200**	**5,540**	**32,200**	52,975	ND<100	ND<100	NA	
	4/8/2009	101.08	38.41	ND	ND	62.67	ND<100	**13,000**	**5,280**	**31,100**	49,380	ND<100	ND<100	NA	
	7/7/2009	101.08	37.94	ND	ND	63.14	**18.2 J**	**9,820**	**4,340**	**23,900**	38,078	ND<25	ND<100	0.64	
	10/28/2009	101.08	38.01	ND	ND	63.07	ND<50	**9,510**	**4,010**	**20,500**	34,020	ND<50	ND<100	1.24	
	1/19/2010	101.08	37.90	ND	ND	63.18	ND<50	**7,240**	**3,570**	**17,600**	28,410	ND<50	ND<100	0.77	
	4/26/2010	101.08	36.45	ND	ND	64.63	**8.0 J**	**6,100**	**3,420**	**14,700**	24,228	ND<25	ND<100	2.65	
	7/14/2010	101.08	37.05	ND	ND	64.03	ND<50	**6,960**	**3,390**	**18,000**	28,350	ND<50	ND<100	2.80	
	10/1/2010	101.08	37.73	ND	ND	63.35	ND<50	**4,800**	**3,530**	**18,000**	26,330	ND<50	ND<100	3.14	
	1/24/2011	101.08	38.48	ND	ND	62.60	**7.0 J**	**6,500**	**3,700**	**21,000**	31,207	ND<5.0	ND<200	0.52	
	4/17/2011	101.08	37.65	ND	ND	63.43	ND<5.0	**5,400**	**3,400**	**17,000**	25,800	ND<5.0	ND<200	0.86	
	7/8/2011	101.08	37.64	ND	ND	63.44	ND<10	**5,700**	**3,700**	**19,000**	28,400	ND<10	ND<200	NA	
	10/25/2011	101.08	36.49	ND	ND	64.59	**14**	**4,500**	**3,500**	**18,000**	26,014	ND<5.0	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-8 (continued)	4/19/2012	101.08	37.82	ND	ND	63.26	ND<13	**3,200**	**3,200**	**16,000**	22,400	ND<13	NA	NA	
	10/3/2012	101.08	37.97	ND	ND	63.11	ND<5.0	**3,300**	**3,300**	**17,000**	23,600	ND<5.0	NA	NA	
	4/11/2013	101.08	38.47	ND	ND	62.61	ND<5.0	**3,400**	**3,900**	**19,000**	26,300	ND<5.0	NA	NA	
	10/17/2013	101.08	38.57	ND	ND	62.51	ND<5.0	**3,700**	**3,500**	**17,000**	24,200	ND<5.0	NA	NA	
	4/22/2014	101.08	38.57	ND	ND	62.51	ND<5.0	**3,200**	**3,400**	**15,000**	21,600	ND<5.0	NA	NA	
	10/23/2014	101.08	38.34	ND	ND	62.74	ND<5.0	**3,700**	**3,200**	**16,000**	22,900	ND<5.0	NA	NA	
	4/6/2015	101.08	37.72	ND	ND	63.36	ND<5.0	**2,600**	**2,900**	**14,000**	19,500	ND<5.0	NA	NA	
	10/1/2015	101.08	38.42	ND	ND	62.66	ND<5.0	**2,700**	**3,500**	**17,000**	23,200	ND<5.0	NA	NA	
	4/7/2016	101.08	38.70	ND	ND	62.38	ND<5.0	**2,800**	**3,300**	**14,000**	20,100	ND<5.0	NA	NA	
	10/31/2016	101.08	39.53	ND	ND	61.55	ND<10	**2,900**	**3,500**	**18,000**	24,400	ND<10	NA	NA	
	4/18/2017	101.08	38.87	ND	ND	62.21	ND<5.0	**2,900**	**3,600**	**15,000**	21,500	ND<5.0	NA	NA	
	10/6/2017	101.08	38.34	ND	ND	62.74	ND<10	**1,800**	**1,000**	**21,000**	23,800	ND<10	NA	NA	
	4/6/2018	101.08	38.57	ND	ND	62.51	ND<5.0	**1,200**	**1,200**	**19,000**	21,400	ND<5.0	NA	NA	
	7/31/2018	101.08	NM	ND	ND	NM	ND<0.5	2	**9**	**520**	531	ND<0.5	NA	NA	
	8/23/2018	101.08	38.79	ND	ND	62.29	ND<1.0	**54**	**68**	**5,700**	5,822	ND<1.0	NA	NA	
	10/31/2018	101.08	38.03	ND	ND	63.05	ND<2.0	**480**	**300**	**18,000**	18,780	ND<2.0	NA	NA	
	1/16/2019	101.08	33.51	ND	ND	67.57	ND<1.0	**630**	**760**	**15,000**	16,390	ND<1.0	NA	NA	
	4/2/2019	101.08	36.75	ND	ND	64.33	ND<1.0	**140**	**180**	**4,100**	4,420	ND<1.0	NA	NA	
	7/30/2019	101.08	36.30	ND	ND	64.78	ND<0.2	3	5	**140**	148	ND<0.2	NA	NA	
	10/28/2019	101.08	38.29	ND	ND	62.79	ND<0.2	3	**11**	**230**	244	ND<0.2	NA	NA	
	7/31/2020	101.08	37.45	ND	ND	63.63	ND<0.2	0.81 J	0.81 J	**9.6**	11.2 J	ND<0.47	NA	NA	
MW-9	4/30/2008	99.17	36.38	ND	ND	62.79	ND<1.0	0.51 J	0.36 J	2.6	3.5	ND<1.0	ND<100	NA	
	7/2/2008	99.17	36.43	ND	ND	62.74	ND<1.0	ND<1.0	ND<1.0	0.81 J	0.81	ND<1.0	ND<100	NA	
	10/15/2008	99.46	36.36	ND	ND	63.10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	1/21/2009	99.46	36.57	ND	ND	62.89	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	4/8/2009	99.46	36.91	ND	ND	62.55	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	NA	
	7/7/2009	99.46	36.42	ND	ND	63.04	ND<1.0	ND<1.0	ND<1.0	0.33 J	0.33	ND<1.0	ND<100	0.88	
	10/28/2009	99.46	36.50	ND	ND	62.96	0.23 J	ND<1.0	ND<1.0	0.37 J	0.60	ND<1.0	ND<100	1.91	
	1/19/2010	99.46	36.40	ND	ND	63.06	ND<1.0	ND<1.0	ND<1.0	0.52 J	0.52	ND<1.0	ND<100	1.42	
	4/26/2010	99.46	34.95	ND	ND	64.51	0.23 J	ND<1.0	ND<1.0	ND<1.0	0.23	ND<1.0	ND<100	2.14	
	7/14/2010	99.46	35.35	ND	ND	64.11	ND<1.0	ND<1.0	ND<1.0	ND<1.0	BRL	ND<1.0	ND<100	3.34	
	10/1/2010	99.46	36.23	ND	ND	63.23	0.24 J	ND<1.0	ND<1.0	ND<1.0	0.24	ND<1.0	ND<100	2.92	
	1/24/2011	99.46	36.97	ND	ND	62.49	ND<0.5	ND<0.5	ND<0.5	0.6 J	0.6	ND<0.5	ND<200	1.01	
	4/17/2011	99.46	36.15	ND	ND	63.31	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	1.30	
	7/8/2011	99.46	36.16	ND	ND	63.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	ND<200	NA	
	10/25/2011	99.46	34.98	ND	ND	64.48	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/19/2012	99.46	36.26	ND	ND	63.20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/3/2012	99.46	36.45	ND	ND	63.01	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/11/2013	99.46	36.95	ND	ND	62.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/17/2013	99.46	37.05	ND	ND	62.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/22/2014	99.46	37.04	ND	ND	62.42	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/23/2014	99.46	36.83	ND	ND	62.63	ND<0.5	ND<0.5	ND<0.5	2	2	ND<0.5	NA	NA	
	4/6/2015	99.46	36.19	ND	ND	63.27	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	99.46	36.94	ND	ND	62.52	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/7/2016	99.46	37.18	ND	ND	62.28	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2016	99.46	13.79	ND	ND	85.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/18/2017	99.46	37.41	ND	ND	62.05	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	99.46	36.80	ND	ND	62.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

		Gauging Data					Analytical Data								
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	Comments
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-9 (continued)	4/6/2018	99.46	36.57	ND	ND	62.89	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2018	99.46	36.53	ND	ND	62.93	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	99.46	35.22	ND	ND	64.24	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	99.46	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	99.46	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	99.46	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
MW-10	4/8/2009	101.02	38.31	ND	ND	62.71	**17.6**	**1,090**	**4,870**	**26,200**	32,178	**11.1**	ND<100	NA	
	7/7/2009	101.02	37.83	ND	ND	63.19	**6.9 J**	**429**	**2,620**	**12,300**	15,356	ND<10	ND<100	0.85	
	10/28/2009	101.02	37.90	ND	ND	63.12	ND<20	**314**	**1,420**	**6,750**	8,484	ND<20	ND<100	1.16	
	1/19/2010	101.02	37.80	ND	ND	63.22	ND<20	**197**	**1,580**	**5,950**	7,727	ND<20	ND<100	2.55	
	4/26/2010	101.02	36.35	ND	ND	64.67	**1.4 J**	**61.6**	**960**	**3,310**	4,333	ND<5.0	ND<100	1.00	
	7/14/2010	101.02	36.96	ND	ND	64.06	ND<25	**53.7**	**1,530**	**6,630**	8,214	ND<25	ND<100	3.21	
	10/1/2010	101.02	37.60	ND	ND	63.42	ND<25	**56.1**	**1,620**	**6,140**	7,816	ND<25	ND<100	1.27	
	1/24/2011	101.02	38.36	ND	ND	62.66	ND<5.0	**220**	**3,500**	**17,000**	20,720	ND<5.0	ND<200	0.56	
	4/17/2011	101.02	37.56	ND	ND	63.46	**3**	**130**	**1,700**	**6,000**	7,833	1	ND<200	1.54	
	7/8/2011	101.02	37.55	ND	ND	63.47	ND<1.0	**25**	**450**	**1,400**	1,875	ND<1	ND<200	NA	
	10/25/2011	101.02	36.36	ND	ND	64.66	ND<1.0	**8**	**1,000**	**3,600**	4,608	ND<1	NA	NA	
	4/19/2012	101.02	37.70	ND	ND	63.32	0.5 J	**10**	**300**	**760**	1,071	ND<0.5	NA	NA	
	10/3/2012	101.02	37.85	ND	ND	63.17	0.9 J	**15**	**93**	**330**	438	ND<0.5	NA	NA	
	4/11/2013	101.02	38.37	ND	ND	62.65	0.6 J	5	**530**	**1,700**	2,236	ND<0.5	NA	NA	
	10/17/2013	101.02	38.50	ND	ND	62.52	**2**	**13**	**360**	**410**	785	ND<0.5	NA	NA	
	4/22/2014	101.02	38.47	ND	ND	62.55	1	**23**	**580**	**950**	1,554	ND<0.5	NA	NA	
	10/23/2014	101.02	38.24	ND	ND	62.78	ND<0.5	4	**100**	**240**	344	ND<0.5	NA	NA	pad is cracked
	4/6/2015	101.02	37.61	ND	ND	63.41	ND<0.5	ND<0.5	**170**	**150**	320	ND<0.5	NA	NA	
	10/1/2015	101.02	38.33	ND	ND	62.69	ND<0.5	1 J	**140**	**120**	261	ND<0.5	NA	NA	
	4/7/2016	101.02	38.58	ND	ND	62.44	ND<5.0	5 J	**1100**	**3300**	4,405	ND<5.0	NA	NA	
	10/31/2016	101.02	39.43	ND	ND	61.59	ND<0.5	4	**41**	**150**	195	ND<0.5	NA	NA	
	4/18/2017	101.02	38.76	ND	ND	62.26	ND<0.5	2	**46**	**150**	198	ND<0.5	NA	NA	
	10/6/2017	101.02	38.21	ND	ND	62.81	ND<0.5	ND<0.5	**86**	**220**	306	ND<0.5	NA	NA	
	4/6/2018	101.02	36.90	ND	ND	64.12	ND<0.5	ND<0.5	**7**	**360**	367	ND<0.5	NA	NA	
	10/31/2018	101.02	38.05	ND	ND	62.97	ND<0.2	ND<0.2	1	ND<1.0	1	ND<0.2	NA	NA	
	4/2/2019	101.02	36.99	ND	ND	64.03	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	101.02	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	101.02	35.67	ND	ND	65.35	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/28/2020	101.02	37.33	ND	ND	63.69	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	
MW-B	4/19/2012	NM	38.92	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.5 J	NA	NA	
	10/3/2012	NM	39.10	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/11/2013	NM	39.60	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	1	1	ND<0.5	NA	NA	
	10/17/2013	NM	39.74	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	0.9 J	0.9	0.6 J	NA	NA	
	4/22/2014	NM	39.76	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	1	1	ND<0.5	NA	NA	
	10/23/2014	NM	39.49	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	0.9 J	0.9	2	NA	NA	
	4/6/2015	NM	38.85	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	NM	39.58	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/7/2016	NM	39.83	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	1	1	0.7 J	NA	NA	
	10/31/2016	NM	40.66	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.9 J	NA	NA	
	4/18/2017	NM	40.00	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.6 J	NA	NA	
	10/6/2017	NM	39.45	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.6 J	NA	NA	
	4/6/2018	NM	39.40	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2018	NM	39.30	ND	ND	NM	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	0.2 J	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
MW-B (continued)	4/2/2019	NM	37.98	ND	ND	NM	ND<0.2	0.7 J	ND<0.4	ND<1.0	0.7 J	0.2 J	NA	NA	
	7/30/2019	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	NM	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	NM	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
MW-C	4/19/2012	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	10/3/2012	NM	38.63	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	0.6 J	NA	NA	
	4/11/2013	NM	39.14	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	1	1	2	NA	NA	
	10/17/2013	NM	39.26	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	2	NA	NA	
	4/22/2014	NM	39.22	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	3	NA	NA	
	10/23/2014	NM	39.02	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	0.5 J	0.5	ND<0.5	NA	NA	
	4/6/2015	NM	38.41	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/1/2015	NM	39.12	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	2	NA	NA	
	4/7/2016	NM	39.40	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/31/2016	NM	18.09	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/18/2017	NM	41.54	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	10/6/2017	NM	39.00	ND	ND	NM	ND<0.5	ND<0.5	ND<0.5	ND<0.5	BRL	ND<0.5	NA	NA	
	4/6/2018	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	10/31/2018	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	4/2/2019	NM	37.42	ND	ND	NM	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	0.2 J	NA	NA	
	7/30/2019	NM	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	NM	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	NM	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
IP-1	4/8/2009	101.71	39.04	ND	ND	62.67	ND<100	**1,920**	**9,070**	**46,900**	57,890	ND<100	NA	NA	
	10/28/2009	101.71	38.65	ND	ND	63.06	ND<50	**959**	**7,790**	**44,000**	52,749	ND<50	NA	1.24	
	1/19/2010	101.71	38.51	ND	ND	63.20	ND<100	**981**	**8,280**	**44,700**	53,961	ND<100	ND<100	1.11	
	4/26/2010	101.71	37.05	ND	ND	64.66	ND<50	**468**	**4,940**	**24,000**	29,408	ND<50	ND<100	3.25	
	7/14/2010	101.71	37.68	ND	ND	64.03	ND<100	**396**	**5,980**	**34,000**	40,376	ND<100	ND<100	2.30	
	10/1/2010	101.71	38.33	ND	ND	63.38	ND<100	**426**	**6,600**	**39,800**	46,826	ND<100	ND<100	1.20	
	1/24/2011	101.71	39.10	ND	ND	62.61	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	4/17/2011	101.71	38.28	ND	ND	63.45	**6**	**240**	**6,300**	**33,000**	39,546	ND<3.0	ND<200	0.69	
	7/8/2011	101.71	38.27	ND	ND	63.44	**8 J**	**180**	**6,800**	**46,000**	52,988	ND<5.0	ND<200	NA	Sheen.
	10/25/2011	101.71	37.11	ND	ND	64.60	ND<25	**160**	**4,800**	**31,000**	35,960	ND<25	NA	NA	
	4/19/2012	101.71	38.43	ND	ND	63.28	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/3/2012	101.71	38.55	ND	ND	63.16	**6**	**320**	**4,600**	**30,000**	34,926	ND<3	NA	NA	
	4/11/2013	101.71	39.10	ND	ND	62.61	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/17/2013	101.71	39.19	ND	ND	62.52	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	4/22/2014	101.71	39.19	ND	ND	62.52	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/23/2014	101.71	38.96	ND	ND	62.75	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	4/6/2015	101.71	37.99	ND	ND	63.72	ND<3.0	**100**	**3,100**	**19,000**	22,200	ND<3.0	NA	NA	
	10/1/2015	101.71	38.70	ND	ND	63.01	NS	NS	NS	NS	NS	NS	NS	NS	
	4/7/2016	101.71	38.98	ND	ND	62.73	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/31/2016	101.71	39.02	ND	ND	62.69	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	4/18/2017	101.71	38.90	ND	ND	62.81	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/6/2017	101.71	36.60	ND	ND	65.11	NS	NS	NS	NS	NS	NS	NS	NS	
	4/6/2018	101.71	37.65	ND	ND	64.06	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/31/2018	101.71	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Dry
	4/2/2019	101.71	37.27	ND	ND	64.44	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	101.71	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	101.71	37.30	ND	ND	64.41	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	101.71	38.14	ND	ND	63.57	NS	NS	NS	NS	NS	NS	NS	NS	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

		Gauging Data					Analytical Data								
Sample ID	Date	Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	Comments
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
IP-2	4/8/2009	101.67	39.00	ND	ND	62.67	ND<25	**2,830**	**4,280**	**25,800**	32,910	ND<25	NA	NA	
	10/28/2009	101.67	38.60	ND	ND	63.07	ND<20	**461**	**1,500**	**7,630**	9,591	ND<20	NA	0.49	
	1/19/2010	101.67	38.46	ND	ND	63.21	ND<50	**822**	**3,700**	**20,500**	25,022	ND<50	ND<100	2.20	
	4/26/2010	101.67	37.04	ND	ND	64.63	ND<20	**685**	**3,230**	**12,600**	16,515	ND<20	ND<100	2.42	
	7/14/2010	101.67	37.63	ND	ND	64.04	ND<50	**639**	**3,170**	**16,500**	20,309	ND<50	ND<100	3.95	
	10/1/2010	101.67	38.30	ND	ND	63.37	ND<25	**590**	**2,860**	**16,300**	19,750	ND<25	ND<100	2.01	
	1/24/2011	101.67	39.04	ND	ND	62.63	ND<3.0	**200**	**2,800**	**16,000**	19,000	ND<3.0	ND<200	0.73	
	4/17/2011	101.67	38.23	ND	ND	63.44	ND<5.0	**120**	**3,200**	**15,000**	18,320	ND<5.0	ND<200	2.37	
	7/8/2011	101.67	38.22	ND	ND	63.45	ND<3.0	**110**	**3,600**	**20,000**	23,710	ND<3.0	ND<200	NA	
	10/25/2011	101.67	37.06	ND	ND	64.61	ND<3.0	**110**	**2,200**	**11,000**	13,310	ND<3.0	NA	NA	
	4/19/2012	101.67	38.39	ND	ND	63.28	ND<3.0	**120**	**3,000**	**16,000**	19,120	ND<3.0	NA	NA	
	10/3/2012	101.67	38.52	ND	ND	63.15	ND<3.0	**89**	**3,400**	**18,000**	21,489	ND<3.0	NA	NA	
	4/11/2013	101.67	39.02	ND	ND	62.65	ND<5.0	**44**	**3,000**	**15,000**	18,044	ND<5.0	NA	NA	
	10/17/2013	101.67	39.14	ND	ND	62.53	ND<5.0	**59**	**4,300**	**23,000**	27,359	ND<5.0	NA	NA	
	4/22/2014	101.67	39.13	ND	ND	62.54	ND<5.0	**35**	**3,800**	**19,000**	22,835	ND<5.0	NA	NA	
	10/23/2014	101.67	38.93	ND	ND	62.74	ND<13	**35**	**2,900**	**17,000**	19,935	ND<13	NA	NA	
	4/6/2015	101.67	37.86	ND	ND	63.81	ND<5	**31**	**2,800**	**16,000**	18,831	ND<5	NA	NA	
	10/1/2015	101.67	38.58	ND	ND	63.09	ND<10	**32**	**2,800**	**18,000**	20,832	ND<10	NA	NA	
	4/7/2016	101.67	38.85	ND	ND	62.82	ND<5.0	**24**	**2,900**	**15,000**	17,924	ND<5.0	NA	NA	
	10/31/2016	101.67	39.69	ND	ND	61.98	ND<10	**12 J**	**2,600**	**15,000**	17,612 J	ND<10	NA	NA	
	4/18/2017	101.67	39.00	ND	ND	62.67	ND<3.0	**12**	**2,700**	**15,000**	17,712	ND<3.0	NA	NA	
	10/6/2017	101.67	38.47	ND	ND	63.20	0.5 J	**45**	**430**	**4,300**	4,775.5 J	ND<0.5	NA	NA	
	4/6/2018	101.67	38.21	ND	ND	63.46	ND<0.5	**17**	**120**	**1,400**	1,537	ND<0.5	NA	NA	
	7/31/2018	101.67	NM	ND	ND	NM	ND<5.0	**150**	**150**	**8,100**	8,400	ND<5.0	NA	NA	
	8/23/2018	101.67	38.21	ND	ND	63.46	ND<0.2	2	3	**300**	305	ND<0.2	NA	NA	
	10/31/2018	101.67	38.19	ND	ND	63.48	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	1/16/2019	101.67	26.21	ND	ND	75.46	ND<0.2	ND<0.2	0.6 J	20	20.6 J	ND<0.2	NA	NA	
	4/2/2019	101.67	36.94	ND	ND	64.73	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	101.67	36.46	ND	ND	65.21	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	10/28/2019	101.67	36.58	ND	ND	65.09	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/31/2020	101.67	37.62	ND	ND	64.05	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	
IP-3	4/8/2009	100.58	38.00	ND	ND	62.58	**113**	**15,000**	**3,970**	**22,000**	41,083	ND<50	NA	NA	
	10/28/2009	100.58	37.61	ND	ND	62.97	**33.4 J**	**7,790**	**4,120**	**21,700**	33,643	ND<50	NA	0.84	
	1/19/2010	100.58	37.50	ND	ND	63.08	**27.5 J**	**9,120**	**3,920**	**21,900**	34,968	ND<50	ND<100	0.24	
	4/26/2010	100.58	36.01	ND	ND	64.57	**27.7**	**5,840**	**3,100**	**13,600**	22,568	ND<20	ND<100	2.65	
	7/14/2010	100.58	36.63	ND	ND	63.95	ND<50	**6,590**	**3,080**	**17,700**	27,370	ND<50	ND<100	2.02	
	10/1/2010	100.58	37.33	ND	ND	63.25	ND<50	**5,660**	**3,070**	**14,500**	23,230	ND<50	ND<100	2.07	
	1/24/2011	100.58	38.07	ND	ND	62.51	**5.0**	**2,400**	**2,400**	**15,000**	19,805	3.0 J	ND<200	1.22	
	4/17/2011	100.58	37.23	ND	ND	63.35	ND<10	**7,700**	**2,600**	**16,000**	26,300	ND<10	ND<200	2.06	
	7/8/2011	100.58	37.22	ND	ND	63.36	**4 J**	**7,800**	**3,300**	**20,000**	31,104	ND<3.0	ND<200	NA	
	10/25/2011	100.58	36.05	ND	ND	64.53	ND<5.0	**6,200**	**2,700**	**16,000**	24,900	ND<5.0	NA	NA	
	4/19/2012	100.58	37.40	ND	ND	63.18	ND<5.0	**5,000**	**2,500**	**14,000**	21,500	ND<5.0	NA	NA	
	10/3/2012	100.58	37.53	ND	ND	63.05	**6 J**	**1,500**	**2,400**	**12,000**	15,906	ND<5.0	NA	NA	
	4/11/2013	100.58	38.04	ND	ND	62.54	**7 J**	**1,900**	**2,000**	**11,000**	14,907	ND<5.0	NA	NA	
	10/17/2013	100.58	38.19	ND	ND	62.39	ND<5.0	**2,900**	**3,200**	**15,000**	21,100	ND<5.0	NA	NA	
	4/22/2014	100.58	38.13	ND	ND	62.45	ND<5.0	**2,700**	**2,900**	**15,000**	20,600	ND<5.0	NA	NA	
	10/23/2014	100.58	37.94	ND	ND	62.64	ND<13	**2,900**	**2,900**	**15,000**	20,800	ND<13	NA	NA	
	4/6/2015	100.58	37.31	ND	ND	63.27	ND<5.0	**1,800**	**2,400**	**13,000**	17,200	ND<5.0	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
IP-3 (continued)	10/1/2015	100.58	38.02	ND	ND	62.56	ND<5.0	**140**	**2,500**	**8,900**	11,540	ND<5.0	NA	NA	
	4/7/2016	100.58	38.28	ND	ND	62.30	ND<3.0	**900**	**1,600**	**8,300**	10,800	ND<3.0	NA	NA	
	10/31/2016	100.58	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Dry
	4/18/2017	100.58	38.40	NM	NM	62.18	ND<3.0	**1,100**	**2,300**	**13,000**	16,400	ND<3.0	NA	NA	
	10/6/2017	100.58	37.91	NM	NM	62.67	**3**	**520**	**1,300**	**8,100**	9,920	ND<1.0	NA	NA	
	4/6/2018	100.58	37.72	NM	NM	62.86	ND<0.5	**41**	2	**1,800**	1,843	ND<0.5	NA	NA	
	7/31/2018	100.58		ND	ND		ND<0.5	ND<0.5	0.6 J	**10**	10.6	ND<0.5	NA	NA	
	8/23/2018	100.58	36.91	ND	ND	63.67	ND<0.2	5	**29**	**440**	474	ND<0.2	NA	NA	
	10/31/2018	100.58	37.60	ND	ND	62.98	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	1/16/2019	100.58	27.69	ND	ND	72.89	ND<0.2	ND<0.2	0.4 J	**34**	34.4 J	ND<0.2	NA	NA	
	4/2/2019	100.58	36.37	ND	ND	64.21	ND<0.2	ND<0.2	0.7 J	**12**	12.7 J	ND<0.2	NA	NA	
	7/30/2019	100.58	36.07	ND	ND	64.51	ND<1	ND<1	2 J	**82**	82 J	ND<1	NA	NA	
	10/28/2019	100.58	36.18	ND	ND	64.40	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/31/2020	100.58	37.02	ND	ND	63.56	ND<0.2	ND<0.38	ND<0.3	1.4 J	1.4 J	ND<0.47	NA	NA	
IP-4	4/8/2009	100.40	37.72	ND	ND	62.68	ND<50	**69.5**	**3,280**	**16,900**	20,250	ND<50	NA	NA	
	10/28/2009	100.40	37.33	ND	ND	63.07	ND<25	**23.1 J**	**2,020**	**8,720**	10,763	ND<25	NA	1.16	
	1/19/2010	100.40	37.21	ND	ND	63.19	ND<10	**11.6**	**1,610**	**6,900**	8,522	ND<10	ND<100	1.41	
	4/26/2010	100.40	35.75	ND	ND	64.65	ND<5.0	**8.6**	**986**	**2,910**	3,905	ND<5.0	ND<100	1.33	
	7/14/2010	100.40	36.25	ND	ND	64.15	ND<10	**6.5 J**	**1,130**	**4,580**	5,717	ND<10	ND<100	3.24	
	10/1/2010	100.40	37.01	ND	ND	63.39	ND<10	3.2 J	**860**	**3,120**	3,983	ND<10	ND<100	0.74	
	1/24/2011	100.40	37.76	ND	ND	62.64	ND<3.0	ND<3.0	**690**	**4,200**	4,890	ND<3.0	ND<200	1.53	
	4/17/2011	100.40	36.95	ND	ND	63.45	ND<3.0	ND<3.0	**710**	**3,700**	4,410	ND<3.0	ND<200	1.52	
	7/8/2011	100.40	36.95	ND	ND	63.45	ND<1.0	ND<1.0	**710**	**2,600**	3,310	ND<1.0	ND<200	NA	
	10/25/2011	100.40	35.78	ND	ND	64.62	ND<3.0	ND<3.0	**700**	**1,500**	2,200	ND<3.0	NA	NA	
	4/19/2012	100.40	37.10	ND	ND	63.30	ND<0.5	ND<0.5	**490**	**880**	1,370	2.0	NA	NA	
	10/3/2012	100.40	37.23	ND	ND	63.17	ND<0.5	ND<0.5	**430**	**850**	1,280	0.6 J	NA	NA	
	4/11/2013	100.40	37.77	ND	ND	62.63	ND<1.0	ND<1.0	**350**	**1,100**	1,450	ND<1.0	NA	NA	
	10/17/2013	100.40	37.90	ND	ND	62.50	ND<3.0	ND<3.0	**320**	**790**	1,110	ND<3.0	NA	NA	
	4/22/2014	100.40	37.83	ND	ND	62.57	ND<3.0	ND<3.0	**210**	**650**	860	ND<3.0	NA	NA	
	10/23/2014	100.40	37.67	ND	ND	62.73	ND<0.5	ND<0.5	**130**	**330**	460	ND<0.5	NA	NA	
	4/6/2015	100.40	37.01	ND	ND	63.39	ND<0.5	ND<0.5	1	1	2	ND<0.5	NA	NA	
	10/1/2015	100.40	37.71	ND	ND	62.69	ND<0.5	ND<0.5	**32**	**42**	74	ND<0.5	NA	NA	
	4/7/2016	100.40	37.98	ND	ND	62.42	ND<0.5	ND<0.5	**52**	**140**	192	ND<0.5	NA	NA	
	10/31/2016	100.40	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	No access; Under car that could not be moved.
	4/18/2017	100.40	38.18	NM	NM	62.22	ND<0.5	ND<0.5	2	3	5	ND<0.5	NA	NA	
	10/6/2017	100.40	37.60	NM	NM	62.80	ND<0.5	ND<0.5	1	**12**	13	ND<0.5	NA	NA	
	4/6/2018	100.40	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	10/31/2018	100.40	37.44	ND	ND	62.96	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	4/2/2019	100.40	36.27	ND	ND	64.13	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	100.40	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	100.40	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	100.40	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	
IP-5	4/8/2009	100.17	37.51	ND	ND	62.66	ND<50	**1,020**	**3,300**	**15,300**	19,620	ND<50	NA	NA	
	10/28/2009	100.17	37.13	ND	ND	63.04	ND<25	**369**	**2,110**	**8,870**	11,349	ND<25	NA	7.49	
	1/19/2010	100.17	37.00	ND	ND	63.17	ND<20	**331**	**3,080**	**10,400**	13,811	ND<20	ND<100	0.84	
	4/26/2010	100.17	35.55	ND	ND	64.62	ND<10	**363**	**2,680**	**9,950**	12,993	ND<10	ND<100	3.01	
	7/14/2010	100.17	36.14	ND	ND	64.03	ND<25	**355**	**2,510**	**9,760**	12,625	ND<25	ND<100	2.78	
	10/1/2010	100.17	36.79	ND	ND	63.38	ND<50	**368**	**3,290**	**12,800**	16,458	ND<50	ND<100	1.70	
	1/24/2011	100.17	37.54	ND	ND	62.63	ND<3.0	**180**	**2,300**	**13,000**	15,480	ND<3.0	ND<200	0.71	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
IP-5 (continued)	4/17/2011	100.17	36.75	ND	ND	63.42	ND<3.0	**70**	**2,300**	**10,000**	12,370	ND<3.0	ND<200	2.23	
	7/8/2011	100.17	36.75	ND	ND	63.42	ND<3.0	**45**	**1,900**	**7,700**	9,645	ND<3.0	ND<200	NA	
	10/25/2011	100.17	35.58	ND	ND	64.59	ND<3.0	**36**	**1,800**	**6,600**	8,436	ND<3.0	NA	NA	
	4/19/2012	100.17	36.91	ND	ND	63.26	ND<3.0	**16**	**2,100**	**8,900**	11,016	ND<3.0	NA	NA	
	10/3/2012	100.17	37.04	ND	ND	63.13	ND<5.0	ND<5.0	**1,600**	**7,600**	9,200	ND<5.0	NA	NA	
	4/11/2013	100.17	37.60	ND	ND	62.57	ND<5.0	ND<5.0	**1,800**	**9,500**	11,300	ND<5.0	NA	NA	
	10/17/2013	100.17	37.64	ND	ND	62.53	ND<5.0	ND<5.0	**1,900**	**8,800**	10,700	ND<5.0	NA	NA	
	4/22/2014	100.17	37.66	ND	ND	62.51	ND<5.0	ND<5.0	**1,500**	**5,800**	7,300	ND<5.0	NA	NA	
	10/23/2014	100.17	37.45	ND	ND	62.72	ND<3.0	ND<3.0	**1,100**	**4,800**	5,900	ND<3.0	NA	NA	
	4/6/2015	100.17	36.82	ND	ND	63.35	ND<3.0	ND<3.0	**610**	**2,200**	2,810	ND<3.0	NA	NA	
	10/1/2015	100.17	37.52	ND	ND	62.65	ND<5.0	ND<5.0	**950**	**3,600**	4,550	ND<5.0	NA	NA	
	4/7/2016	100.17	37.80	ND	ND	62.37	ND<5.0	ND<5.0	**1,000**	**3,500**	4,500	ND<5.0	NA	NA	
	10/31/2016	100.17	37.83	ND	ND	62.34	ND<5.0	ND<5.0	**470**	**990**	1,460	ND<5.0	NA	NA	
	4/18/2017	100.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	10/6/2017	100.17	37.41	NM	NM	62.76	ND<0.5	2	**150**	**1,100**	1,252	ND<0.5	ND	ND	
	4/6/2018	100.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Car parked on top of well.
	10/31/2018	100.17	37.13	ND	ND	63.04	ND<0.2	2	ND<0.4	**130**	132	ND<0.2	NA	NA	
	4/2/2019	100.17	35.97	ND	ND	64.2	ND<0.2	0.2 J	ND<0.4	2 J	2.2 J	ND<0.2	NA	NA	
	7/30/2019	100.17	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	100.17	36.75	ND	ND	63.42	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/28/2020	100.17	36.53	ND	ND	63.64	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	
IP-6	4/8/2009	99.80	37.13	ND	ND	62.67	**78.1**	**9,760**	**3,840**	**15,200**	28,878	ND<50	NA	NA	
	10/28/2009	99.80	36.75	ND	ND	63.05	**43.4 J**	**9,010**	**2,970**	**12,600**	24,623	ND<50	NA	0.60	
	1/19/2010	99.80	36.61	ND	ND	63.19	**28.3**	**10,100**	**2,560**	**11,400**	24,088	ND<25	ND<100	1.29	
	4/26/2010	99.80	35.30	ND	ND	64.50	**9.3 J**	**4,820**	**1,760**	**7,060**	13,649	ND<10	ND<100	1.25	
	7/14/2010	99.80	35.76	ND	ND	64.04	ND<50	**6,960**	**2,250**	**10,400**	19,610	ND<50	ND<100	3.07	
	10/1/2010	99.80	36.47	ND	ND	63.33	ND<25	**3,670**	**1,780**	**8,570**	14,020	ND<25	ND<100	1.81	
	1/24/2011	99.80	37.16	ND	ND	62.64	**99.0**	**2,700**	**2,900**	**12,000**	17,699	**17.0**	ND<200	0.95	
	4/17/2011	99.80	36.35	ND	ND	63.45	ND<10	**6,700**	**2,200**	**7,800**	16,700	ND<10	ND<200	2.01	
	7/8/2011	99.80	36.56	ND	ND	63.24	ND<3.0	**3,900**	**3,100**	**8,100**	15,100	ND<3.0	ND<200	NA	
	10/25/2011	99.80	35.20	ND	ND	64.60	ND<5.0	**2,900**	**1,800**	**6,000**	10,700	ND<5.0	NA	NA	
	4/19/2012	99.80	36.53	ND	ND	63.27	ND<3.0	**2,900**	**1,800**	**8,000**	12,700	ND<3.0	NA	NA	
	10/3/2012	99.80	36.64	ND	ND	63.16	1 J	**33**	**1,500**	**2,700**	4,234	ND<1.0	NA	NA	
	4/11/2013	99.80	37.19	ND	ND	62.61	**56**	**4,300**	**3,300**	**15,000**	22,656	7 J	NA	NA	
	10/17/2013	99.80	37.30	ND	ND	62.50	**4**	**160**	**680**	**1,500**	2,344	ND<1.0	NA	NA	
	4/22/2014	99.80	37.27	ND	ND	62.53	ND<3.0	**100**	**1,100**	**3,500**	4,700	ND<3.0	NA	NA	
	10/23/2014	99.80	37.06	ND	ND	62.74	ND<3.0	**310**	**1,900**	**7,000**	9,210	ND<3.0	NA	NA	
	4/6/2015	99.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	No access; under car.
	10/1/2015	99.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Abandoned, Dry at 1.30 feet
	4/7/2016	99.80	37.94	ND	ND	61.86	ND<0.5	**18**	**320**	**1,200**	1,538	1	NA	NA	
	10/31/2016	99.80	37.82	ND	ND	61.98	ND<0.5	ND<0.5	1	0.9 J	1.9 J	ND<0.5	NA	NA	
	4/18/2017	99.80	37.19	ND	ND	62.61	ND<0.5	ND<0.5	2	2	4	ND<0.5	NA	NA	
	10/6/2017	99.80	36.60	ND	ND	63.20	ND<0.5	0.9 J	**10**	**120**	130.9 J	ND<0.5	NA	NA	
	4/6/2018	99.80	36.45	ND	ND	63.35	ND<0.5	4	**6**	**140**	150	ND<0.5	NA	NA	
	10/31/2018	99.80	36.27	ND	ND	63.53	ND<0.2	ND<0.2	0.9 J	5	5.9	ND<0.2	NA	NA	
	4/2/2019	99.80	35.07	ND	ND	64.73	ND<0.2	ND<0.2	ND<0.4	ND<1.0	BRL	ND<0.2	NA	NA	
	7/30/2019	99.80	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	99.80	36.03	ND	ND	63.77	ND<0.2	ND<0.2	ND<0.4	ND<1	BRL	ND<0.2	NA	NA	
	7/28/2020	99.80	37.53	ND	ND	62.27	ND<0.2	ND<0.38	ND<0.3	ND<0.65	BRL	ND<0.47	NA	NA	

Table 1
Monitoring Well Gauging And Groundwater Analytical Data
February 6, 2006 Through July 31, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York

Sample ID	Date	Gauging Data					Analytical Data								Comments
		Top of Casing Elevation	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	Ethyl Alcohol (µg/L)	Dissolved Oxygen (mg/L)	
NYSDEC Standards		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**1**	**5**	**5**	**5**	**~**	**~**	**~**	**~**	
NYSDEC Guidance Values		**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**~**	**~**	**~**	**~**	**~**	**10**	**~**	**~**	
IP-7	10/1/2010	101.35	38.00	ND	ND	63.35	**28.1 J**	**4,580**	**5,750**	**40,000**	50,358	ND<100	ND<100	2.14	
	4/17/2011	101.35	37.89	ND	ND	63.46	NS	NS	NS	NS	NS	NS	NS	0.76	
	7/8/2011	101.35	37.93	ND	ND	63.42	**28**	**4,800**	**5,600**	**28,000**	38,428	ND<5.0	ND<200	NA	
	10/25/2011	101.35	36.72	ND	ND	64.63	**38**	**3,100**	**5,500**	**25,000**	33,638	6 J	NA	NA	
	4/19/2012	101.35	38.07	ND	ND	63.28	**73**	**1,100**	**4,700**	**25,000**	30,873	10	NA	NA	
	10/3/2012	101.35	38.20	ND	ND	63.15	**17**	**1,700**	**5,700**	**35,000**	42,417	3 J	NA	NA	
	4/11/2013	101.35	38.76	ND	ND	62.59	**11**	**960**	**4,800**	**28,000**	33,771	ND<5.0	NA	NA	
	10/17/2013	101.35	38.85	ND	ND	62.50	**59**	**1,600**	**6,000**	**36,000**	43,659	8 J	NA	NA	
	4/22/2014	101.35	38.81	ND	ND	62.54	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/23/2014	101.35	38.60	ND	ND	62.75	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	4/6/2015	101.35	37.74	ND	ND	63.61	**12**	**1,500**	**3,600**	**26,000**	31,112	8 J	NA	NA	
	10/1/2015	101.35	38.46	ND	ND	62.89	NS	NS	NS	NS	NS	NS	NS	NS	
	4/7/2016	101.35	38.71	ND	ND	62.64	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/31/2016	101.35	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	No access; Bolt Struck
	4/18/2017	101.35	38.70	NM	NM	62.65	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/6/2017	101.35	38.31	NM	NM	63.04	NS	NS	NS	NS	NS	NS	NS	NS	
	4/6/2018	101.35	38.44	NM	NM	62.91	NS	NS	NS	NS	NS	NS	NS	NS	Insufficient water.
	10/31/2018	101.35	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Dry
	4/2/2019	101.35	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	Dry
	7/30/2019	101.35	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	
	10/28/2019	101.35	36.25	NM	NM	65.10	NS	NS	NS	NS	NS	NS	NS	NS	
	7/28/2020	101.35	DRY	DRY	DRY	DRY	NS	NS	NS	NS	NS	NS	NS	NS	

Notes:
~ - no standard or guidance value exists
ND<1.0 - Not detected at or above the laboratory reporting limit shown
µg/L - micrograms per liter
BRL - Below laboratory reporting limits
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
Corrected GW elevation - calculated with following formula:
(top of casing - depth to water) + (hydrocarbon thickness * (hydrocarbon specific gravity))
Depth to Water - measured in feet below land surface from top of casing
GW - Groundwater
Hydrocarbon - liquid-phase hydrocarbon (LPH)
J - Indicates an estimated value
mg/L - milligram per liter
MTBE - methyl tertiary-butyl ether
N/A - Not applicable
NA - Not analyzed
ND - Not detected
NM - Not monitored
NS - Not sampled
NSVD - Not surveyed to vertical datum
NYSDEC Standards and Guidance Values - New York State Department of Environmental Conservation Technical and Operational Guidance Series (TOGS) 1.1.1, Ambient Water Quality Standards and Guidance Values, June 1998 and Addendum April 2000
Bold Items - Reported concentration detected above the applicable standard(s) or guidance value(s)
Total Xylenes - summation of o-xylene and m & p-xylenes

Table 2
AS/SVE Influent Analytical Data
March 16, 2017 through March 11, 2020

Former Mobil #10954
138-50 Hillside Avenue
Jamaica, New York

DATE	HOUR METER READING	DAYS IN MONITORING PERIOD	ACTUAL RUN TIME	PERCENT RUN TIME	AIR FLOW	AIR SPARGE	BTEX				MTBE				TPH			
							CONCENT-RATION	MASS RECOVERY RATE	MASS RECOVERED OVER PERIOD	TOTAL MASS RECOVERED	CONCENT-RATION	MASS RECOVERY RATE	MASS RECOVERED OVER PERIOD	TOTAL MASS RECOVERED	CONCENT-RATION	MASS RECOVERY RATE	MASS RECOVERED OVER PERIOD	TOTAL MASS RECOVERED
	(hr)	(days)		(%)	(scfm)	(Y/N)	(mg/m^3)	(lb/day)	(lb)	(lb)	(mg/m^3)	(lb/day)	(lb)	(lb)	(mg/m^3)	(lb/day)	(lb)	(lb)
2/16/2017	38,702	NA	NA	NA	240	N	27	0.59	NA	NA	0.07	0.00	NA	NA	220	4.7	NA	NA
3/1/2017	39,008	13	13	98%	240	N	43	0.94	11.9	12	0.07	0.00	0.02	0.0	164	3.5	45	45
4/25/2017	40,088	55	45	82%	280	N	18	0.44	20.0	32	0.07	0.00	0.08	0.1	40	1.0	45	90
5/17/2017	40,470	22	16	71%	280	N	12	0.31	4.9	37	0.07	0.00	0.03	0.1	450	11	180	271
8/3/2017	40,804	NA	NA	NA	205	Y	71	1.31	NA	37	0.07	0.00	NA	0.1	2010	37	NA	271
9/7/2017	41,643	35	35	100%	200	Y	49	0.88	30.9	68	0.07	0.00	0.04	0.2	310	5.6	195	466
3/14/2018	42,312	NA	NA	NA	213	Y	24	0.47	NA	68	0.04	0.00	NA	0.2	530	10	NA	466
4/11/2018	42,984	28	28	100%	152	Y	49	0.68	18.9	87	0.04	0.00	0.01	0.2	540	7.4	207	672
5/2/2018	43,488	21	21	100%	148	Y	18	0.24	5.1	92	0.04	0.00	0.01	0.2	260	3.5	73	745
6/21/2018	44,517	50	43	86%	230	N	4	0.08	3.6	95	0.00	0.00	0.00	0.2	40	0.8	35	780
7/11/2018	44,994	20	20	100%	210	Y	5	0.09	1.8	97	0.00	0.00	0.00	0.2	30	0.6	11	792
8/20/2018	45,954	40	40	100%	175	Y	3	0.05	2.2	99	0.00	0.00	0.00	0.2	16	0.3	10	802
9/24/2018	46,800	35	35	100%	250	N	3	0.06	2.0	101	0.01	0.00	0.01	0.2	327	7.3	259	1061
10/25/2018	47,538	31	31	100%	215	Y	8	0.16	5.0	106	0.01	0.00	0.00	0.2	530	10	315	1376
11/14/2018	47,684	20	6	30%	215	N	0	0.00	0.0	106	0.01	0.00	0.00	0.2	180	3.5	21	1397
12/4/2018	48,071	20	16	81%	185	Y	5	0.09	1.5	108	0.01	0.00	0.00	0.2	420	7.0	112	1510
1/9/2019	48,606	35	22	64%	185	Y	9	0.14	3.2	111	0.01	0.00	0.00	0.2	210	3.5	78	1588
2/7/2019	49,326	30	30	100%	175	Y	9	0.14	4.1	115	0.01	0.00	0.00	0.2	110	1.7	52	1640
3/4/2019	49,925	25	25	100%	175	Y	7	0.10	2.6	118	0.01	0.00	0.00	0.2	95	1.5	37	1677
4/2/2019	50,620	29	29	100%	175	Y	1	0.01	0.4	118	0.00	0.00	0.00	0.2	46	0.7	21	1698
5/1/2019	51,318	29	29	100%	175	Y	0.1	0.002	0.1	118	0.00	0.00	0.00	0.2	30	0.5	14	1712
6/11/2019	52,301	41	41	100%	235	Y	0.02	0.000	0.0	118	0.00	0.00	0.00	0.2	20	0.4	17	1729
7/17/2019	53,164	36	36	100%	205	Y	0.01	0.000	0.0	118	0.00	0.00	0.00	0.2	20	0.4	13	1742
8/8/2019	53,333	22	7	32%	240	Y	0.01	0.000	0.0	118	0.00	0.00	0.00	0.2	20	0.4	3	1745
9/5/2019	53,981	27	27	100%	235	Y	0.01	0.000	0.0	118	0.00	0.00	0.00	0.2	81	1.7	46	1792
10/9/2019	54,819	35	35	100%	230	Y	0.04	0.001	0.0	118	0.00	0.00	0.00	0.2	20	0.4	14	1806
11/14/2019	55,689	36	36	100%	225	Y	0.10	0.002	0.1	118	0.00	0.00	0.00	0.2	20	0.4	15	1821
12/12/2019	55,880	28	8	28%	140	N	0.04	0.000	0.0	118	0.00	0.00	0.00	0.2	210	2.6	21	1842
1/15/2020	56,692	34	34	100%	145	Y	0.01	0.000	0.0	118	0.00	0.00	0.00	0.2	20	0.3	9	1851
2/12/2020	57,364	28	28	100%	143	Y	0.05	0.001	0.0	118	0.00	0.00	0.00	0.2	20	0.3	7	1858
3/11/2020	58,036	28	28	100%	173	Y	0.22	0.003	0.1	118	0.00	0.00	0.00	0.2	57	0.9	25	1883

Notes:

BTEX - Benzene, toluene, ethylbenzene and xylene
MTBE - Methyl tertiary butyl ether
TPH - Total petroleum hydrocarbons (C1-C10)
NA - Not applicable
NM - Not measured
scfm - Standard cubic feet per minute
mg/m^3 - Milligrams per cubic meter
lb - Pounds
MDL - Method detection limit

Calculations:

Release Rate (lb/hr) = Flow Rate (scfm) x Concentration (mg/m^3)

$$\frac{ft^3}{min} \times \frac{mg}{m^3} \times \frac{m^3}{35.31\ ft^3} \times \frac{lb}{453592\ mg} \times \frac{60\ min}{hr}$$

For mass calculations, half of the MDL is used for samples which are below the MDL.

Table 3
AS/SVE Effluent Analytical Data
March 16, 2017 through March 11, 2020

Former Mobil #10954
138-50 Hillside Avenue
Jamaica, New York

EFFLUENT SAMPLE DATE	AIR FLOW RATE	BENZENE		TOLUENE		ETHYLBENZENE		TOTAL XYLENES		MTBE		TPH	
	scfm	mg/m^3	lb/hr	mg/m^3	lb/hr	mg/m^3	lb/hr	mg/m^3	lb/hr	mg/m^3	lb/hr	mg/m^3	lb/hr
2/16/2017	240	0.003	2.88E-06	0.03	2.70E-05	0.03	2.34E-05	0.07	6.38E-05	0.004	3.24E-06	30	0.03
3/1/2017	240	0.032	2.88E-05	3.20	2.88E-03	0.57	5.12E-04	0.52	4.68E-04	0.036	3.24E-05	230	0.21
4/25/2017	280	0.007	6.92E-06	0.02	2.52E-05	0.02	1.68E-05	0.10	1.01E-04	0.002	2.31E-06	20	0.02
5/17/2017	280	0.002	1.68E-06	0.01	1.26E-05	0.00	4.30E-06	0.03	2.90E-05	0.000	3.78E-07	20	0.02
8/3/2017	205	0.001	9.98E-07	0.02	1.31E-05	0.00	1.15E-06	0.01	5.53E-06	0.000	2.76E-07	220	0.17
9/7/2017	200	0.065	4.87E-05	7.00	5.24E-03	0.34	2.55E-04	0.17	1.27E-04	0.070	5.24E-05	430	0.32
3/14/2018	213	0.007	5.19E-06	0.08	5.98E-05	0.01	6.78E-06	0.02	1.36E-05	0.007	5.59E-06	20	0.02
4/11/2018	152	0.001	6.26E-07	0.00	2.14E-06	0.00	6.26E-07	0.01	7.00E-06	0.000	2.05E-07	20	0.01
5/2/2018	148	0.001	6.65E-07	0.04	2.33E-05	0.01	4.77E-06	0.01	5.49E-06	0.000	2.00E-07	20	0.01
6/21/2018	230	0.003	2.33E-06	0.02	1.38E-05	0.00	9.48E-07	0.01	4.48E-06	0.000	3.10E-07	20	0.02
7/11/2018	210	0.001	8.65E-07	0.03	2.05E-05	0.00	1.89E-06	0.01	1.14E-05	0.000	2.83E-07	20	0.02
8/20/2018	175	0.001	4.65E-07	0.01	6.56E-06	0.00	7.21E-07	0.01	7.80E-06	0.000	2.36E-07	3	0.00
9/24/2018	250	0.001	1.12E-06	0.03	3.09E-05	0.00	1.12E-06	0.01	7.40E-06	0.000	3.37E-07	50	0.05
10/25/2018	215	0.007	5.32E-06	0.04	2.90E-05	0.01	8.05E-06	0.03	2.46E-05	0.001	5.64E-07	75	0.06
11/14/2018	215	0.003	2.58E-06	0.02	1.21E-05	0.01	8.05E-06	0.03	2.46E-05	0.007	5.64E-06	20	0.02
12/4/2018	185	0.003	2.22E-06	0.02	1.32E-05	0.01	6.93E-06	0.09	6.51E-05	0.007	4.85E-06	40	0.03
1/9/2019	185	0.004	2.98E-06	0.01	6.72E-06	0.01	3.47E-06	0.02	1.32E-05	0.004	2.49E-06	20	0.01
2/7/2019	175	0.002	1.38E-06	0.02	1.18E-05	0.00	1.25E-06	0.01	8.78E-06	0.000	2.36E-07	20	0.01
3/4/2019	175	0.002	1.44E-06	0.01	4.52E-06	0.00	1.64E-06	0.01	5.05E-06	0.002	1.18E-06	20	0.01
4/2/2019	175	0.002	1.05E-06	0.01	7.21E-06	0.01	3.28E-06	0.02	1.02E-05	0.004	2.36E-06	20	0.01
5/1/2019	175	0.001	7.21E-07	0.01	8.52E-06	0.00	2.69E-06	0.06	3.87E-05	0.001	4.59E-07	20	0.01
6/11/2019	235	0.001	8.80E-07	0.01	5.11E-06	0.00	8.80E-07	0.00	2.69E-06	0.001	6.16E-07	20	0.02
7/17/2019	205	0.001	9.22E-07	0.01	4.45E-06	0.00	1.08E-06	0.01	7.68E-06	0.000	2.76E-07	20	0.02
8/8/2019	240	0.001	1.17E-06	0.01	7.10E-06	0.00	1.17E-06	0.00	2.79E-06	0.000	3.24E-07	20	0.02
9/5/2019	235	0.002	1.32E-06	0.01	4.49E-06	0.00	4.40E-07	0.00	1.67E-06	0.000	3.17E-07	20	0.02
10/9/2019	230	0.001	9.48E-07	0.02	1.81E-05	0.00	4.31E-07	0.00	1.34E-06	0.000	3.10E-07	20	0.02
11/14/2019	225	0.001	9.27E-07	0.07	6.15E-05	0.00	1.26E-06	0.01	5.65E-06	0.000	3.03E-07	20	0.02
12/12/2019	140	0.002	1.21E-06	0.02	8.39E-06	0.00	1.15E-06	0.01	5.66E-06	0.000	1.89E-07	46	0.02
1/15/2020	145	0.001	5.98E-07	0.01	4.18E-06	0.00	5.43E-07	0.00	1.30E-06	0.000	1.96E-07	20	0.01
2/12/2020	143	0.003	1.66E-06	0.02	1.18E-05	0.00	1.34E-06	0.01	7.02E-06	0.000	1.93E-07	20	0.01
3/11/2020	173	0.005	2.98E-06	0.02	1.04E-05	0.00	6.48E-07	0.00	0.00E+00	0.000	2.33E-07	40	0.03
Discharge Limits (lb/hr)	NA	NA	4.94E-03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

BTEX - Benzene, toluene, ethylbenzene and xylene
MTBE - Methyl tertiary butyl ether
TPH - Total petroleum hydrocarbons (C1-C10)
NA - Not applicable
scfm - Standard cubic feet per minute
mg/m^3 - Milligrams per cubic meter
lb - Pounds
MDL - Method detection limit

Calculations:

Release Rate (lb/hr) = Flow Rate (scfm) x Concentration (mg/m^3)

$$\frac{ft^3}{min} \times \frac{mg}{m^3} \times \frac{m^3}{35.31\ ft^3} \times \frac{lb}{453592\ mg} \times \frac{60\ min}{hr}$$

For mass calculations, half of the MDL is used for samples which are below the MDL

APPENDIX A

Groundwater Laboratory Analytical Report

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Lancaster Laboratories Env, LLC
2425 New Holland Pike
Lancaster, PA 17601
Tel: (717)656-2300

Laboratory Job ID: 410-9407-1
Client Project/Site: XOM 10954 - Jamaica, NY

For:
ARCADIS U.S., Inc.
295 Woodcliff Drive, Suite 301
Fairport, New York 14450

Attn: Nicholas Beyrle

Authorized for release by:
8/12/2020 6:39:59 PM

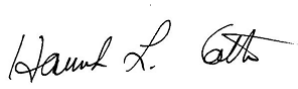
Hannah Cottman, Operations Support Specialist
(717)556-7383
hannahcottman@eurofinsus.com

Analytical test results meet all requirements of the associated regulatory program (e.g., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis. Data qualifiers are applied to note exceptions. Noncompliant quality control (QC) is further explained in narrative comments. QC data that exceed the upper limits and are associated with non-detect samples are qualified but no further narration is needed since the bias is high and does not change a non-detect result. Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Measurement uncertainty values, as applicable, are available upon request.

Test results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" and tested in the laboratory are not performed within 15 minutes of collection.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANACASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.



Hannah Cottman
Operations Support Specialist
8/12/2020 6:39:59 PM

Table of Contents

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Job ID: 410-9407-1
Project/Site: XOM 10954 - Jamaica, NY

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
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)
TNTC	Too Numerous To Count

Job ID: 410-9407-1

Laboratory: Eurofins Lancaster Laboratories Env, LLC

Narrative

Job Narrative
410-9407-1

Comments
No additional comments.

Receipt
The samples were received on 7/31/2020 2:10 PM; the samples arrived in good condition, and where required, properly preserved and on ice.

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

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-1 — Lab Sample ID: 410-9407-1

No Detections.

Client Sample ID: MW-5 — Lab Sample ID: 410-9407-2

No Detections.

Client Sample ID: MW-6 — Lab Sample ID: 410-9407-3

No Detections.

Client Sample ID: MW-8 — Lab Sample ID: 410-9407-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.81	J	1.0	0.30	ug/L	1		8260C	Total/NA
Toluene	0.81	J	1.0	0.38	ug/L	1		8260C	Total/NA
Xylenes, Total	9.6		2.0	0.65	ug/L	1		8260C	Total/NA

Client Sample ID: MW-10 — Lab Sample ID: 410-9407-5

No Detections.

Client Sample ID: IP-2 — Lab Sample ID: 410-9407-6

No Detections.

Client Sample ID: IP-3 — Lab Sample ID: 410-9407-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	1.4	J	2.0	0.65	ug/L	1		8260C	Total/NA

Client Sample ID: IP-5 — Lab Sample ID: 410-9407-8

No Detections.

Client Sample ID: IP-6 — Lab Sample ID: 410-9407-9

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 410-9407-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-1
Date Collected: 07/31/20 08:45
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 10:19	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 10:19	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 10:19	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 10:19	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 123*		*08/09/20 10:19*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*08/09/20 10:19*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/09/20 10:19*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*08/09/20 10:19*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-5
Date Collected: 07/28/20 08:35
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 10:43	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 10:43	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 10:43	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 10:43	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/09/20 10:43*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*08/09/20 10:43*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/09/20 10:43*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*08/09/20 10:43*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-6

Date Collected: 07/28/20 09:10
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 11:07	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 11:07	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 11:07	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 11:07	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 11:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/09/20 11:07*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*08/09/20 11:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/09/20 11:07*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*08/09/20 11:07*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-8
Date Collected: 07/31/20 11:05
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 11:31	1
Ethylbenzene	**0.81**	**J**	1.0	0.30	ug/L			08/09/20 11:31	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 11:31	1
Toluene	**0.81**	**J**	1.0	0.38	ug/L			08/09/20 11:31	1
Xylenes, Total	**9.6**		2.0	0.65	ug/L			08/09/20 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/09/20 11:31*	*1*
Dibromofluoromethane (Surr)	*103*		*77 - 124*		*08/09/20 11:31*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/09/20 11:31*	*1*
4-Bromofluorobenzene	*101*		*76 - 120*		*08/09/20 11:31*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-10
Date Collected: 07/31/20 12:00
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 11:55	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 11:55	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 11:55	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 11:55	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 11:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 123*		*08/09/20 11:55*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*08/09/20 11:55*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/09/20 11:55*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*08/09/20 11:55*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: IP-2

Date Collected: 07/31/20 10:15
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 12:19	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 12:19	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 12:19	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 12:19	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/09/20 12:19*	*1*
Dibromofluoromethane (Surr)	*98*		*77 - 124*		*08/09/20 12:19*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/09/20 12:19*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*08/09/20 12:19*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: IP-3
Date Collected: 07/31/20 13:00
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 12:43	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 12:43	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 12:43	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 12:43	1
Xylenes, Total	**1.4**	**J**	2.0	0.65	ug/L			08/09/20 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/09/20 12:43*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*08/09/20 12:43*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/09/20 12:43*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*08/09/20 12:43*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: IP-5

Date Collected: 07/28/20 08:50
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/10/20 11:00	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/10/20 11:00	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/10/20 11:00	1
Toluene	<0.38		1.0	0.38	ug/L			08/10/20 11:00	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/10/20 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 123*		*08/10/20 11:00*	*1*
Dibromofluoromethane (Surr)	*102*		*77 - 124*		*08/10/20 11:00*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/10/20 11:00*	*1*
4-Bromofluorobenzene	*97*		*76 - 120*		*08/10/20 11:00*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: IP-6

Date Collected: 07/28/20 07:50
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/10/20 11:48	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/10/20 11:48	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/10/20 11:48	1
Toluene	<0.38		1.0	0.38	ug/L			08/10/20 11:48	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/10/20 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/10/20 11:48*	*1*
Dibromofluoromethane (Surr)	*99*		*77 - 124*		*08/10/20 11:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/10/20 11:48*	*1*
4-Bromofluorobenzene	*99*		*76 - 120*		*08/10/20 11:48*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: Trip Blank

Date Collected: 07/31/20 12:30
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 09:55	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 09:55	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 09:55	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 09:55	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*75 - 123*		*08/09/20 09:55*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*08/09/20 09:55*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*08/09/20 09:55*	*1*
4-Bromofluorobenzene	*100*		*76 - 120*		*08/09/20 09:55*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(75-123)	(77-124)	(80-120)	(76-120)
410-9407-1	MW-1	105	101	102	99
410-9407-2	MW-5	106	100	101	98
410-9407-3	MW-6	106	101	101	99
410-9407-4	MW-8	106	103	102	101
410-9407-5	MW-10	105	100	101	98
410-9407-6	IP-2	106	98	102	98
410-9407-7	IP-3	106	101	103	99
410-9407-8	IP-5	105	102	101	97
410-9407-9	IP-6	106	99	101	99
410-9407-10	Trip Blank	104	100	103	100
LCS 460-715246/4	Lab Control Sample	103	101	102	101
LCS 460-715381/3	Lab Control Sample	103	101	100	99
LCSD 460-715246/5	Lab Control Sample Dup	101	99	101	99
LCSD 460-715381/4	Lab Control Sample Dup	103	100	101	100
MB 460-715246/9	Method Blank	105	100	102	100
MB 460-715381/7	Method Blank	106	101	101	98

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene

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

Lab Sample ID: MB 460-715246/9
Matrix: Water
Analysis Batch: 715246

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/09/20 09:11	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/09/20 09:11	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/09/20 09:11	1
Toluene	<0.38		1.0	0.38	ug/L			08/09/20 09:11	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/09/20 09:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 123*		*08/09/20 09:11*	*1*
Dibromofluoromethane (Surr)	*100*		*77 - 124*		*08/09/20 09:11*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*08/09/20 09:11*	*1*
4-Bromofluorobenzene	*100*		*76 - 120*		*08/09/20 09:11*	*1*

Lab Sample ID: LCS 460-715246/4
Matrix: Water
Analysis Batch: 715246

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	20.0	19.8		ug/L		99	78 - 126
Ethylbenzene	20.0	18.5		ug/L		92	78 - 120
Methyl tertiary butyl ether	20.0	19.3		ug/L		96	65 - 131
Toluene	20.0	19.1		ug/L		95	78 - 119
Xylenes, Total	40.0	37.4		ug/L		93	78 - 122

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*
Dibromofluoromethane (Surr)	*101*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*
4-Bromofluorobenzene	*101*		*76 - 120*

Lab Sample ID: LCSD 460-715246/5
Matrix: Water
Analysis Batch: 715246

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	20.0	19.5		ug/L		97	78 - 126	2	30
Ethylbenzene	20.0	19.6		ug/L		98	78 - 120	6	30
Methyl tertiary butyl ether	20.0	19.3		ug/L		97	65 - 131	0	30
Toluene	20.0	19.1		ug/L		95	78 - 119	0	30
Xylenes, Total	40.0	38.3		ug/L		96	78 - 122	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 123*
Dibromofluoromethane (Surr)	*99*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene	*99*		*76 - 120*

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

Lab Sample ID: MB 460-715381/7
Matrix: Water
Analysis Batch: 715381

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.20		1.0	0.20	ug/L			08/10/20 08:59	1
Ethylbenzene	<0.30		1.0	0.30	ug/L			08/10/20 08:59	1
Methyl tertiary butyl ether	<0.47		1.0	0.47	ug/L			08/10/20 08:59	1
Toluene	<0.38		1.0	0.38	ug/L			08/10/20 08:59	1
Xylenes, Total	<0.65		2.0	0.65	ug/L			08/10/20 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 123*		*08/10/20 08:59*	*1*
Dibromofluoromethane (Surr)	*101*		*77 - 124*		*08/10/20 08:59*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/10/20 08:59*	*1*
4-Bromofluorobenzene	*98*		*76 - 120*		*08/10/20 08:59*	*1*

Lab Sample ID: LCS 460-715381/3
Matrix: Water
Analysis Batch: 715381

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			20.0	20.5		ug/L		103	78 - 126		
Ethylbenzene			20.0	20.1		ug/L		101	78 - 120		
Methyl tertiary butyl ether			20.0	20.3		ug/L		102	65 - 131		
Toluene			20.0	19.6		ug/L		98	78 - 119		
Xylenes, Total			40.0	39.8		ug/L		100	78 - 122		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*
Dibromofluoromethane (Surr)	*101*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
4-Bromofluorobenzene	*99*		*76 - 120*

Lab Sample ID: LCSD 460-715381/4
Matrix: Water
Analysis Batch: 715381

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			20.0	21.6		ug/L		108	78 - 126	5	30
Ethylbenzene			20.0	21.6		ug/L		108	78 - 120	7	30
Methyl tertiary butyl ether			20.0	22.0		ug/L		110	65 - 131	8	30
Toluene			20.0	21.6		ug/L		108	78 - 119	10	30
Xylenes, Total			40.0	42.8		ug/L		107	78 - 122	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 123*
Dibromofluoromethane (Surr)	*100*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
4-Bromofluorobenzene	*100*		*76 - 120*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

GC/MS VOA

Analysis Batch: 715246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-9407-1	MW-1	Total/NA	Water	8260C	
410-9407-2	MW-5	Total/NA	Water	8260C	
410-9407-3	MW-6	Total/NA	Water	8260C	
410-9407-4	MW-8	Total/NA	Water	8260C	
410-9407-5	MW-10	Total/NA	Water	8260C	
410-9407-6	IP-2	Total/NA	Water	8260C	
410-9407-7	IP-3	Total/NA	Water	8260C	
410-9407-10	Trip Blank	Total/NA	Water	8260C	
MB 460-715246/9	Method Blank	Total/NA	Water	8260C	
LCS 460-715246/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-715246/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 715381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
410-9407-8	IP-5	Total/NA	Water	8260C	
410-9407-9	IP-6	Total/NA	Water	8260C	
MB 460-715381/7	Method Blank	Total/NA	Water	8260C	
LCS 460-715381/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-715381/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Client Sample ID: MW-1
Date Collected: 07/31/20 08:45
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 10:19	VBP	TAL EDI

Client Sample ID: MW-5
Date Collected: 07/28/20 08:35
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 10:43	VBP	TAL EDI

Client Sample ID: MW-6
Date Collected: 07/28/20 09:10
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 11:07	VBP	TAL EDI

Client Sample ID: MW-8
Date Collected: 07/31/20 11:05
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 11:31	VBP	TAL EDI

Client Sample ID: MW-10
Date Collected: 07/31/20 12:00
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 11:55	VBP	TAL EDI

Client Sample ID: IP-2
Date Collected: 07/31/20 10:15
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 12:19	VBP	TAL EDI

Client Sample ID: IP-3
Date Collected: 07/31/20 13:00
Date Received: 07/31/20 14:10

Lab Sample ID: 410-9407-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 12:43	VBP	TAL EDI

Lab Chronicle

Client: ARCADIS U.S., Inc.
Job ID: 410-9407-1
Project/Site: XOM 10954 - Jamaica, NY

Client Sample ID: IP-5
Lab Sample ID: 410-9407-8
Date Collected: 07/28/20 08:50
Matrix: Water
Date Received: 07/31/20 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715381	08/10/20 11:00	SZD	TAL EDI

Client Sample ID: IP-6
Lab Sample ID: 410-9407-9
Date Collected: 07/28/20 07:50
Matrix: Water
Date Received: 07/31/20 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715381	08/10/20 11:48	SZD	TAL EDI

Client Sample ID: Trip Blank
Lab Sample ID: 410-9407-10
Date Collected: 07/31/20 12:30
Matrix: Water
Date Received: 07/31/20 14:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	715246	08/09/20 09:55	VBP	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
Job ID: 410-9407-1
Project/Site: XOM 10954 - Jamaica, NY

Laboratory: Eurofins TestAmerica, Edison

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	11452	04-01-21

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: XOM 10954 - Jamaica, NY

Job ID: 410-9407-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
410-9407-1	MW-1	Water	07/31/20 08:45	07/31/20 14:10	
410-9407-2	MW-5	Water	07/28/20 08:35	07/31/20 14:10	
410-9407-3	MW-6	Water	07/28/20 09:10	07/31/20 14:10	
410-9407-4	MW-8	Water	07/31/20 11:05	07/31/20 14:10	
410-9407-5	MW-10	Water	07/31/20 12:00	07/31/20 14:10	
410-9407-6	IP-2	Water	07/31/20 10:15	07/31/20 14:10	
410-9407-7	IP-3	Water	07/31/20 13:00	07/31/20 14:10	
410-9407-8	IP-5	Water	07/28/20 08:50	07/31/20 14:10	
410-9407-9	IP-6	Water	07/28/20 07:50	07/31/20 14:10	
410-9407-10	Trip Blank	Water	07/31/20 12:30	07/31/20 14:10	

Arcadis/Exxon

NYC 222

Page 1 of 2

Req Due Date (mm/dd/yy): ASAP- Standard Rush TAT: Yes ___ No x

Lab Work Order Number: 410-9407

Lab Name:	Lancaster	Site Number:	10954	Consultant/Contractor:	EnviroTrac Ltd.
Lab Address:	2425 New Holland Pike	Facility Address:	138-50 Hillside Ave	Consultant/Contractor Project No:	
Lab PM:	Hannah Cottman	City, State, ZIP Code:	Jamaica, NY	Address:	5 Old Dock Road, Yaphank, New York 11980
Lab Phone:	(717) 656-2300 ext 1815	Lead Regulatory Agency:	NYSDEC	Consultant/Contractor PM:	Dan Ruffini
Lab Shipping Accnt:		Invoice to:	****BILL ARCADIS****	Phone:	631-924-3001
Lab Bottle Order No:				Email EDD To:	nicholas.beyrle@arcadis.com
Other Info:					

Arcadis PM: Nicholas Beyrle

PM Phone:

PM Email: nicholas.beyrle@arcadis.com

Report Type & QC Level: Standard x; Full Data Package ___

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	Requested Analyses: BTEX/MTBE 8260	Ethanol via 8015
1	MW-1	7/31/20	0845		x		4				x		x	
2	MW-5	7/28/20	0835		x		4				x		x	
3	MW-6	7/28/20	0910		x		4				x		x	
4	MW-8	7/31/20	1105		x		4				x		x	
5	MW-10	7/31/20	1200		x		4				x		x	
~~—~~	~~IP-1~~				x		~~8~~				x		x	
6	IP-2	7/31/20	1015		x		4				x		x	
7	IP-3	7/31/20	1300		x		4				x		x	
8	IP-5	7/28/20	0850		x		4				x		x	
9	IP-6	7/28/20	0750		x		4				x		x	

410-9407 Chain of Custody

Comments: not collected, indicate "No comments and single-strike out preprinted sample description.

		Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Name:	Crystal Bakewicz	Crystal Bake	7/31/20	1405			
Sampler's Company:	EnviroTrac Ltd.		07/31/20	17:00		7/31/20	1600
Shipment Method:	Ship Date:		7/31/20	1800	UPS ETA 7/31/20	1800	
Shipment Tracking No:							

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

4 2 ZR 1 P

Page 20 of 29

8/12/2020

NYC 222

Page 2 of 2

Arcadis/Exxon

Req Due Date (mm/dd/yy): ASAP- Standard Rush TAT: Yes ___ No x

Lab Work Order Number: 410-9407

Laboratory Work Order Number:

Lab Name:	Lancaster	Site Number:	10954	Consultant/Contractor:	EnviroTrac Ltd.
Lab Address:	2425 New Holland Pike	Facility Address:	138-50 Hillside Ave	Consultant/Contractor Project No:	
Lab PM:	Hannah Cottman	City, State, ZIP Code:	Jamaica, NY	Address:	5 Old Dock Road, Yaphank, New York 11980
Lab Phone:	(717) 656-2300 ext 1815	Lead Regulatory Agency:	NYSDEC	Consultant/Contractor PM:	Dan Ruffini
Lab Shipping Accnt:		Invoice to:	****BILL ARCADIS****	Phone:	631-924-3001
Lab Bottle Order No:				Email EDD To:	nicholas.beyrle@arcadis.com
Other Info:					

Arcadis PM: Nicholas Beyrle

PM Phone:

PM Email: nicholas.beyrle@arcadis.com

Report Type & QC Level: Standard x; Full Data Package ___

Lab No.	Sample Description	Date	Time	Matrix: Soil / Solid	Matrix: Water / Liquid	Matrix: Air / Vapor	No. Containers / Preservative: Total Number of Containers	Unpreserved	H_2SO_4	HNO_3	HCl	Methanol	Requested Analyses: BTEX/MTBE 8260	Ethanol via 8015	Comments
~~9~~	~~IP-7~~				X		~~4~~				X		X		
10	Trip Blank	7/31/20	1230		X		4				X		X		
					X		4				X		X		
					X		4				X		X		
					X		4				X		X		
					X		4				X		X		
					X		4				X		X		
					x		4				x		x		
					x		4				x		x		
					x		2				x		x		

Sampler's Name:	Crystal Babewicz	Relinquished By / Affiliation	Date	Time	Accepted By / Affiliation	Date	Time
Sampler's Company:	EnviroTrac Ltd.	Crystal Babe	7/31/20	1405		07/31/20	14:10
Shipment Method:	Ship Date:		07/31/20	17:00		73120	1600
Shipment Tracking No:		73120		1800	OD CTA 7/31		1800

Special Instructions:

THIS LINE - LAB USE ONLY: Custody Seals In Place: Yes / No | Temp Blank: Yes / No | Cooler Temp on Receipt: _____ °F/C | Trip Blank: Yes / No | MS/MSD Sample Submitted: Yes / No

4 2 LR 11

8/12/2020

Job Number: 410-9407

Eurofins TestAmerica Edison
Receipt Temperature and pH Log

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	4.2 ℃	℃	Cooler #4:	℃	℃	Cooler #7:	℃	℃
Cooler #2:	℃	℃	Cooler #5:	℃	℃	Cooler #8:	℃	℃
Cooler #3:	℃	℃	Cooler #6:	℃	℃	Cooler #9:	℃	℃

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 4 3 20

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 410-9407-1

Login Number: 9407
List Number: 2
Creator: Rivera, Kenneth

List Source: Eurofins TestAmerica, Edison
List Creation: 08/04/20 04:50 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.2°C, IR #11
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 (excluding tests with immediate HTs)	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.	True	
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	

APPENDIX B

AS/SVE Vapor Laboratory Analytical Reports

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

Report Date: January 27, 2020 19:18

Project: 10954

Account #: 13045
Group Number: 2083426
PO Number: 30007569.MB000.C
Release Number: PM: OERTLING
State of Sample Origin: NY

Electronic Copy To	ARCADIS	Attn: Richard Hatch
Electronic Copy To	ARCADIS	Attn: Chad Colwell
Electronic Copy To	ARCADIS	Attn: Nicholas Beyrle
Electronic Copy To	ARCADIS	Attn: Jerome Oertling

Respectfully Submitted,

Hannah L. Cottman
Project Manager

(717) 556-7383

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
CATOX INF Grab Air	01/15/2020 08:15	1240617
CATOX EFF Grab Air	01/15/2020 08:10	1240618

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: **CATOX INF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 01/16/2020 16:09
Collection Date/Time: 01/15/2020 08:15

ARCADIS
ELLE Sample #: AQ 1240617
ELLE Group #: 2083426
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	C1-C4 Hydrocarbons as hexane[1]	n.a.	< 20	20	< 5	5	1
07090	>C4-C10 Hydrocarbons hexane[1]	n.a.	< 20	20	< 5	5	1
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Benzene	71-43-2	0.00057 J	0.00032	0.00018 J	0.00010	1
05265	Ethylbenzene	100-41-4	< 0.0010	0.0010	< 0.00023	0.00023	1
05265	Methyl t-Butyl Ether	1634-04-4	< 0.00072	0.00072	< 0.00020	0.00020	1
05265	Toluene	108-88-3	0.0044	0.00045	0.0012	0.00012	1
05265	m/p-Xylene	179601-23-1	0.0023 J	0.0018	0.00053 J	0.00042	1
05265	o-Xylene	95-47-6	0.0016 J	0.0013	0.00037 J	0.00029	1

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M2002230AA	01/22/2020 16:24	Jeffrey B Smith	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	D2002230AA	01/22/2020 12:48	Jacob E Bailey	1

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 01/16/2020 16:09
Collection Date/Time: 01/15/2020 08:10

ARCADIS
ELLE Sample #: AQ 1240618
ELLE Group #: 2083426
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	C1-C4 Hydrocarbons as hexane[1]	n.a.	< 20	20	< 5	5	1
07090	>C4-C10 Hydrocarbons hexane[1]	n.a.	< 20	20	< 5	5	1
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Acetone	67-64-1	0.043	0.0013	0.018	0.00053	1
05265	Acetonitrile	75-05-8	0.0025 J	0.0014	0.0015 J	0.00082	1
05265	Acrolein	107-02-8	< 0.0013	0.0013	< 0.00057	0.00057	1
05265	Acrylonitrile	107-13-1	< 0.00043	0.00043	< 0.00020	0.00020	1
05265	Benzene	71-43-2	0.0011 J	0.00032	0.00035 J	0.00010	1
05265	Bromobenzene[1]	108-86-1	< 0.00064	0.00064	< 0.00010	0.00010	1
05265	Bromodichloromethane	75-27-4	< 0.00080	0.00080	< 0.00012	0.00012	1
05265	Bromoform	75-25-2	< 0.0018	0.0018	< 0.00017	0.00017	1
05265	Bromomethane	74-83-9	< 0.00070	0.00070	< 0.00018	0.00018	1
05265	1,3-Butadiene	106-99-0	< 0.00038	0.00038	< 0.00017	0.00017	1
05265	2-Butanone	78-93-3	0.0070	0.00065	0.0024	0.00022	1
05265	tert-Butyl Alcohol	75-65-0	0.00094 J	0.00061	0.00031 J	0.00020	1
05265	Carbon Disulfide	75-15-0	< 0.00037	0.00037	< 0.00012	0.00012	1
05265	Carbon Tetrachloride	56-23-5	< 0.00088	0.00088	< 0.00014	0.00014	1
05265	Chlorobenzene	108-90-7	< 0.00055	0.00055	< 0.00012	0.00012	1
05265	Chlorodifluoromethane[1]	75-45-6	< 0.00053	0.00053	< 0.00015	0.00015	1
05265	Chloroethane	75-00-3	< 0.00047	0.00047	< 0.00018	0.00018	1
05265	Chloroform	67-66-3	0.0013 J	0.00042	0.00027 J	0.000087	1
05265	Chloromethane	74-87-3	< 0.00047	0.00047	< 0.00023	0.00023	1
05265	3-Chloropropene	107-05-1	< 0.00050	0.00050	< 0.00016	0.00016	1
05265	Cumene	98-82-8	< 0.0012	0.0012	< 0.00025	0.00025	1
05265	Dibromochloromethane	124-48-1	< 0.0012	0.0012	< 0.00014	0.00014	1
05265	1,2-Dibromoethane	106-93-4	< 0.0010	0.0010	< 0.00013	0.00013	1
05265	Dibromomethane[1]	74-95-3	< 0.0010	0.0010	< 0.00014	0.00014	1
05265	1,2-Dichlorobenzene	95-50-1	< 0.0011	0.0011	< 0.00019	0.00019	1
05265	1,3-Dichlorobenzene	541-73-1	< 0.0011	0.0011	< 0.00018	0.00018	1
05265	1,4-Dichlorobenzene	106-46-7	< 0.0010	0.0010	< 0.00017	0.00017	1
05265	Dichlorodifluoromethane	75-71-8	0.0022 J	0.00064	0.00044 J	0.00013	1
05265	1,1-Dichloroethane	75-34-3	< 0.00039	0.00039	< 0.000096	0.000096	1
05265	1,2-Dichloroethane	107-06-2	< 0.00020	0.00020	< 0.000050	0.000050	1
05265	1,1-Dichloroethene	75-35-4	< 0.00056	0.00056	< 0.00014	0.00014	1
05265	cis-1,2-Dichloroethene	156-59-2	< 0.00044	0.00044	< 0.00011	0.00011	1
05265	trans-1,2-Dichloroethene	156-60-5	< 0.00036	0.00036	< 0.000090	0.000090	1
05265	Dichlorofluoromethane[1]	75-43-4	< 0.00051	0.00051	< 0.00012	0.00012	1
05265	1,2-Dichloropropane	78-87-5	< 0.00044	0.00044	< 0.000096	0.000096	1
05265	cis-1,3-Dichloropropene	10061-01-5	< 0.00040	0.00040	< 0.000088	0.000088	1
05265	trans-1,3-Dichloropropene	10061-02-6	< 0.00050	0.00050	< 0.00011	0.00011	1
05265	1,4-Dioxane	123-91-1	< 0.00050	0.00050	< 0.00014	0.00014	1
05265	Ethyl Acetate[1]	141-78-6	0.0027 J	0.00068	0.00074 J	0.00019	1

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 01/16/2020 16:09
Collection Date/Time: 01/15/2020 08:10

ARCADIS
ELLE Sample #: AQ 1240618
ELLE Group #: 2083426
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Ethyl Acrylate	140-88-5	< 0.00066	0.00066	< 0.00016	0.00016	1
05265	Ethyl Methacrylate[1]	97-63-2	< 0.00098	0.00098	< 0.00021	0.00021	1
05265	Ethylbenzene	100-41-4	0.0010 J	0.0010	0.00023 J	0.00023	1
05265	4-Ethyltoluene[1]	622-96-8	< 0.00093	0.00093	< 0.00019	0.00019	1
05265	Freon 113	76-13-1	< 0.00084	0.00084	< 0.00011	0.00011	1
05265	Freon 114	76-14-2	< 0.00084	0.00084	< 0.00012	0.00012	1
05265	Heptane	142-82-5	0.0012 J	0.00098	0.00030 J	0.00024	1
05265	Hexachlorobutadiene	87-68-3	< 0.0049	0.0049	< 0.00046	0.00046	1
05265	Hexachloroethane	67-72-1	< 0.0022	0.0022	< 0.00023	0.00023	1
05265	Hexane	110-54-3	0.064	0.00046	0.018	0.00013	1
05265	2-Hexanone[1]	591-78-6	< 0.00078	0.00078	< 0.00019	0.00019	1
05265	Isooctane	540-84-1	0.043	0.00061	0.0092	0.00013	1
05265	Methyl Acrylate[1]	96-33-3	< 0.00049	0.00049	< 0.00014	0.00014	1
05265	Methyl Iodide	74-88-4	< 0.00070	0.00070	< 0.00012	0.00012	1
05265	Methyl Methacrylate	80-62-6	< 0.00066	0.00066	< 0.00016	0.00016	1
05265	Alpha Methyl Styrene[1]	98-83-9	< 0.00087	0.00087	< 0.00018	0.00018	1
05265	Methyl t-Butyl Ether	1634-04-4	< 0.00072	0.00072	< 0.00020	0.00020	1
05265	4-Methyl-2-pentanone	108-10-1	< 0.00061	0.00061	< 0.00015	0.00015	1
05265	Methylene Chloride	75-09-2	0.018	0.00069	0.0051	0.00020	1
05265	Octane[1]	111-65-9	< 0.0021	0.0021	< 0.00046	0.00046	1
05265	Pentane[1]	109-66-0	0.0058	0.00038	0.0020	0.00013	1
05265	Propene[1]	115-07-1	0.0094	0.00034	0.0055	0.00020	1
05265	Styrene	100-42-5	0.0010 J	0.00089	0.00024 J	0.00021	1
05265	1,1,1,2-Tetrachloroethane[1]	630-20-6	< 0.00096	0.00096	< 0.00014	0.00014	1
05265	1,1,2,2-Tetrachloroethane	79-34-5	< 0.00096	0.00096	< 0.00014	0.00014	1
05265	Tetrachloroethene	127-18-4	0.14	0.0014	0.021	0.00021	1
05265	Toluene	108-88-3	0.0077	0.00045	0.0020	0.00012	1
05265	1,2,4-Trichlorobenzene	120-82-1	< 0.0028	0.0028	< 0.00038	0.00038	1
05265	1,1,1-Trichloroethane	71-55-6	< 0.00065	0.00065	< 0.00012	0.00012	1
05265	1,1,2-Trichloroethane	79-00-5	< 0.00052	0.00052	< 0.000096	0.000096	1
05265	Trichloroethene	79-01-6	< 0.00075	0.00075	< 0.00014	0.00014	1
05265	Trichlorofluoromethane	75-69-4	< 0.00067	0.00067	< 0.00012	0.00012	1
05265	1,2,3-Trichloropropane[1]	96-18-4	< 0.00084	0.00084	< 0.00014	0.00014	1
05265	1,2,4-Trimethylbenzene	95-63-6	< 0.0014	0.0014	< 0.00028	0.00028	1
05265	1,3,5-Trimethylbenzene	108-67-8	< 0.0016	0.0016	< 0.00032	0.00032	1
05265	Vinyl Acetate	108-05-4	< 0.00060	0.00060	< 0.00017	0.00017	1
05265	Vinyl Chloride	75-01-4	< 0.00033	0.00033	< 0.00013	0.00013	1
05265	m/p-Xylene	179601-23-1	0.0024 J	0.0018	0.00055 J	0.00042	1
05265	o-Xylene	95-47-6	< 0.0013	0.0013	< 0.00029	0.00029	1

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 01/16/2020 16:09
Collection Date/Time: 01/15/2020 08:10

ARCADIS
ELLE Sample #: AQ 1240618
ELLE Group #: 2083426
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF

Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M2002230AA	01/22/2020 16:52	Jeffrey B Smith	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2002430AA	01/24/2020 21:15	Jacob E Bailey	1

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Reported: 01/27/2020 19:18

Group Number: 2083426

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
Batch number: D2002230AA	Sample number(s): 1240617			
Benzene	< 0.00035	0.00035	< 0.00011	0.00011
Ethylbenzene	< 0.00083	0.00083	< 0.00019	0.00019
Methyl t-Butyl Ether	< 0.00054	0.00054	< 0.00015	0.00015
Toluene	< 0.00045	0.00045	< 0.00012	0.00012
m/p-Xylene	< 0.0011	0.0011	< 0.00026	0.00026
o-Xylene	< 0.00083	0.00083	< 0.00019	0.00019
Batch number: F2002430AA	Sample number(s): 1240618			
Acetone	< 0.0013	0.0013	< 0.00053	0.00053
Acetonitrile	< 0.0014	0.0014	< 0.00083	0.00083
Acrolein	< 0.0014	0.0014	< 0.00062	0.00062
Acrylonitrile	< 0.00028	0.00028	< 0.00013	0.00013
Benzene	< 0.00035	0.00035	< 0.00011	0.00011
Bromobenzene	< 0.00064	0.00064	< 0.00010	0.00010
Bromodichloromethane	< 0.00080	0.00080	< 0.00012	0.00012
Bromoform	< 0.0018	0.0018	< 0.00017	0.00017
Bromomethane	< 0.00070	0.00070	< 0.00018	0.00018
1,3-Butadiene	< 0.00038	0.00038	< 0.00017	0.00017
2-Butanone	< 0.00062	0.00062	< 0.00021	0.00021
tert-Butyl Alcohol	< 0.00064	0.00064	< 0.00021	0.00021
Carbon Disulfide	< 0.00040	0.00040	< 0.00013	0.00013
Carbon Tetrachloride	< 0.00088	0.00088	< 0.00014	0.00014
Chlorobenzene	< 0.00060	0.00060	< 0.00013	0.00013
Chlorodifluoromethane	< 0.00053	0.00053	< 0.00015	0.00015
Chloroethane	< 0.00050	0.00050	< 0.00019	0.00019
Chloroform	< 0.00045	0.00045	< 0.000092	0.000092
Chloromethane	< 0.00050	0.00050	< 0.00024	0.00024
3-Chloropropene	< 0.00047	0.00047	< 0.00015	0.00015
Cumene	< 0.0012	0.0012	< 0.00024	0.00024
Dibromochloromethane	< 0.0011	0.0011	< 0.00013	0.00013
1,2-Dibromoethane	< 0.0010	0.0010	< 0.00013	0.00013
Dibromomethane	< 0.0010	0.0010	< 0.00014	0.00014
1,2-Dichlorobenzene	< 0.0012	0.0012	< 0.00020	0.00020
1,3-Dichlorobenzene	< 0.0011	0.0011	< 0.00019	0.00019
1,4-Dichlorobenzene	< 0.0010	0.0010	< 0.00017	0.00017
Dichlorodifluoromethane	< 0.00064	0.00064	< 0.00013	0.00013
1,1-Dichloroethane	< 0.00036	0.00036	< 0.000089	0.000089
1,2-Dichloroethane	< 0.00032	0.00032	< 0.000080	0.000080
1,1-Dichloroethene	< 0.00056	0.00056	< 0.00014	0.00014

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Reported: 01/27/2020 19:18

Group Number: 2083426

Method Blank (continued)

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
cis-1,2-Dichloroethene	< 0.00048	0.00048	< 0.00012	0.00012
trans-1,2-Dichloroethene	< 0.00034	0.00034	< 0.000086	0.000086
Dichlorofluoromethane	< 0.00046	0.00046	< 0.00011	0.00011
1,2-Dichloropropane	< 0.00060	0.00060	< 0.00013	0.00013
cis-1,3-Dichloropropene	< 0.00045	0.00045	< 0.00010	0.00010
trans-1,3-Dichloropropene	< 0.00054	0.00054	< 0.00012	0.00012
1,4-Dioxane	< 0.00061	0.00061	< 0.00017	0.00017
Ethyl Acetate	< 0.00090	0.00090	< 0.00025	0.00025
Ethyl Acrylate	< 0.00066	0.00066	< 0.00016	0.00016
Ethyl Methacrylate	< 0.00089	0.00089	< 0.00019	0.00019
Ethylbenzene	< 0.00083	0.00083	< 0.00019	0.00019
4-Ethyltoluene	< 0.00088	0.00088	< 0.00018	0.00018
Freon 113	< 0.00084	0.00084	< 0.00011	0.00011
Freon 114	< 0.00084	0.00084	< 0.00012	0.00012
Heptane	< 0.00094	0.00094	< 0.00023	0.00023
Hexachlorobutadiene	< 0.0050	0.0050	< 0.00047	0.00047
Hexachloroethane	< 0.0026	0.0026	< 0.00027	0.00027
Hexane	< 0.00046	0.00046	< 0.00013	0.00013
2-Hexanone	< 0.00074	0.00074	< 0.00018	0.00018
Isooctane	< 0.00061	0.00061	< 0.00013	0.00013
Methyl Acrylate	< 0.00049	0.00049	< 0.00014	0.00014
Methyl Iodide	< 0.00087	0.00087	< 0.00015	0.00015
Methyl Methacrylate	< 0.00061	0.00061	< 0.00015	0.00015
Alpha Methyl Styrene	< 0.00087	0.00087	< 0.00018	0.00018
Methyl t-Butyl Ether	< 0.00054	0.00054	< 0.00015	0.00015
4-Methyl-2-pentanone	< 0.00061	0.00061	< 0.00015	0.00015
Methylene Chloride	< 0.00087	0.00087	< 0.00025	0.00025
Octane	< 0.0019	0.0019	< 0.00040	0.00040
Pentane	< 0.00038	0.00038	< 0.00013	0.00013
Propene	< 0.00028	0.00028	< 0.00016	0.00016
Styrene	< 0.00085	0.00085	< 0.00020	0.00020
1,1,1,2-Tetrachloroethane	< 0.0010	0.0010	< 0.00015	0.00015
1,1,2,2-Tetrachloroethane	< 0.0010	0.0010	< 0.00015	0.00015
Tetrachloroethene	< 0.0017	0.0017	< 0.00025	0.00025
Toluene	< 0.00045	0.00045	< 0.00012	0.00012
1,2,4-Trichlorobenzene	< 0.0028	0.0028	< 0.00038	0.00038
1,1,1-Trichloroethane	< 0.00065	0.00065	< 0.00012	0.00012
1,1,2-Trichloroethane	< 0.00065	0.00065	< 0.00012	0.00012
Trichloroethene	< 0.00097	0.00097	< 0.00018	0.00018
Trichlorofluoromethane	< 0.00084	0.00084	< 0.00015	0.00015
1,2,3-Trichloropropane	< 0.00084	0.00084	< 0.00014	0.00014
1,2,4-Trimethylbenzene	< 0.0014	0.0014	< 0.00028	0.00028
1,3,5-Trimethylbenzene	< 0.0016	0.0016	< 0.00032	0.00032
Vinyl Acetate	< 0.00056	0.00056	< 0.00016	0.00016
Vinyl Chloride	< 0.00031	0.00031	< 0.00012	0.00012

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 01/27/2020 19:18

Group Number: 2083426

Method Blank (continued)

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
m/p-Xylene	< 0.0011	0.0011	< 0.00026	0.00026
o-Xylene	< 0.00083	0.00083	< 0.00019	0.00019
Batch number: M2002230AA	Sample number(s): 1240617-1240618			
C1-C4 Hydrocarbons as hexane	< 20	20	< 5	5
>C4-C10 Hydrocarbons hexane	< 20	20	< 5	5

LCS/LCSD

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D2002230AA	Sample number(s): 1240617								
Benzene	0.0319	0.0297	0.0319	0.0292	93	91	70-130	2	25
Ethylbenzene	0.0434	0.0418	0.0434	0.0421	96	97	70-130	1	25
Methyl t-Butyl Ether	0.0361	0.0321	0.0361	0.0324	89	90	70-130	1	25
Toluene	0.0377	0.0357	0.0377	0.0358	95	95	70-130	1	25
m/p-Xylene	0.0434	0.0412	0.0434	0.0422	95	97	78-119	2	25
o-Xylene	0.0434	0.0411	0.0434	0.0419	95	96	70-130	2	25
Batch number: F2002430AA	Sample number(s): 1240618								
Acetone	0.0238	0.0281	0.0238	0.0273	118	115	70-137	3	25
Acetonitrile	0.0168	0.0235	0.0168	0.0227	140	135	67-143	4	25
Acrolein	0.0229	0.0292	0.0229	0.0286	127	125	70-135	2	25
Acrylonitrile	0.0217	0.0258	0.0217	0.0253	119	116	70-131	2	25
Benzene	0.0319	0.0345	0.0319	0.0350	108	110	70-130	2	25
Bromobenzene	0.0642	0.0789	0.0642	0.0799	123	124	70-130	1	25
Bromodichloromethane	0.0670	0.0757	0.0670	0.0764	113	114	75-134	1	25
Bromoform	0.103	0.127	0.103	0.129	123	125	60-139	2	25
Bromomethane	0.0388	0.0462	0.0388	0.0459	119	118	70-134	1	25
1,3-Butadiene	0.0221	0.0232	0.0221	0.0230	105	104	70-131	1	25
2-Butanone	0.0295	0.0342	0.0295	0.0344	116	116	70-130	0	25
tert-Butyl Alcohol	0.0303	0.0361	0.0303	0.0356	119	117	67-145	1	25
Carbon Disulfide	0.0311	0.0368	0.0311	0.0353	118	113	70-130	4	25
Carbon Tetrachloride	0.0629	0.0686	0.0629	0.0660	109	105	70-130	4	25
Chlorobenzene	0.0460	0.0525	0.0460	0.0529	114	115	76-117	1	25
Chlorodifluoromethane	0.0354	0.0410	0.0354	0.0398	116	113	70-141	3	25
Chloroethane	0.0264	0.0314	0.0264	0.0304	119	115	70-131	3	25
Chloroform	0.0488	0.0563	0.0488	0.0547	115	112	70-130	3	25
Chloromethane	0.0207	0.0217	0.0207	0.0214	105	104	70-138	1	25
3-Chloropropene	0.0313	0.0427	0.0313	0.0410	136	131	70-156	4	25
Cumene	0.0492	0.0592	0.0492	0.0605	120	123	70-131	2	25
Dibromochloromethane	0.0852	0.102	0.0852	0.0993	120	117	74-131	3	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 01/27/2020 19:18

Group Number: 2083426

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2-Dibromoethane	0.0768	0.0915	0.0768	0.0916	119	119	70-130	0	25
Dibromomethane	0.0711	0.0813	0.0711	0.0804	114	113	70-130	1	25
1,2-Dichlorobenzene	0.0601	0.0811	0.0601	0.0846	135	141*	61-139	4	25
1,3-Dichlorobenzene	0.0601	0.0792	0.0601	0.0813	132	135	64-140	3	25
1,4-Dichlorobenzene	0.0601	0.0806	0.0601	0.0830	134	138*	64-137	3	25
Dichlorodifluoromethane	0.0495	0.0588	0.0495	0.0577	119	117	70-131	2	25
1,1-Dichloroethane	0.0405	0.0457	0.0405	0.0453	113	112	70-130	1	25
1,2-Dichloroethane	0.0405	0.0473	0.0405	0.0480	117	118	70-142	1	25
1,1-Dichloroethene	0.0396	0.0474	0.0396	0.0463	120	117	70-131	2	25
cis-1,2-Dichloroethene	0.0396	0.0465	0.0396	0.0451	117	114	70-130	3	25
trans-1,2-Dichloroethene	0.0396	0.0461	0.0396	0.0449	116	113	70-130	3	25
Dichlorofluoromethane	0.0421	0.0521	0.0421	0.0510	124	121	70-136	2	25
1,2-Dichloropropane	0.0462	0.0503	0.0462	0.0508	109	110	70-130	1	25
cis-1,3-Dichloropropene	0.0454	0.0517	0.0454	0.0522	114	115	70-130	1	25
trans-1,3-Dichloropropene	0.0454	0.0534	0.0454	0.0540	118	119	70-130	1	25
1,4-Dioxane	0.0360	0.0418	0.0360	0.0412	116	114	70-130	1	25
Ethyl Acetate	0.0360	0.0400	0.0360	0.0394	111	109	73-124	2	25
Ethyl Acrylate	0.0409	0.0456	0.0409	0.0452	111	110	71-126	1	25
Ethyl Methacrylate	0.0467	0.0527	0.0467	0.0531	113	114	67-130	1	25
Ethylbenzene	0.0434	0.0499	0.0434	0.0507	115	117	70-130	2	25
4-Ethyltoluene	0.0492	0.0610	0.0492	0.0621	124	126	69-139	2	25
Freon 113	0.0766	0.0777	0.0766	0.0749	101	98	70-130	4	25
Freon 114	0.0699	0.0778	0.0699	0.0747	111	107	70-130	4	25
Heptane	0.0410	0.0434	0.0410	0.0433	106	106	70-130	0	25
Hexachlorobutadiene	0.107	0.161	0.107	0.166	151	155	34-157	3	25
Hexachloroethane	0.0968	0.137	0.0968	0.138	142	142	38-163	0	25
Hexane	0.0352	0.0371	0.0352	0.0361	105	102	70-130	3	25
2-Hexanone	0.0410	0.0494	0.0410	0.0501	121	122	74-134	1	25
Isooctane	0.0467	0.0497	0.0467	0.0502	106	108	70-130	1	25
Methyl Acrylate	0.0352	0.0390	0.0352	0.0388	111	110	75-125	1	25
Methyl Iodide	0.0581	0.0638	0.0581	0.0634	110	109	70-130	1	25
Methyl Methacrylate	0.0409	0.0442	0.0409	0.0444	108	109	73-117	1	25
Alpha Methyl Styrene	0.0483	0.0645	0.0483	0.0643	134	133	56-142	0	25
Methyl t-Butyl Ether	0.0361	0.0389	0.0361	0.0377	108	104	70-130	3	25
4-Methyl-2-pentanone	0.0410	0.0455	0.0410	0.0462	111	113	79-131	2	25
Methylene Chloride	0.0347	0.0454	0.0347	0.0444	131	128	70-139	2	25
Octane	0.0467	0.0494	0.0467	0.0502	106	107	70-130	2	25
Pentane	0.0295	0.0304	0.0295	0.0298	103	101	70-130	2	25
Propene	0.0172	0.0181	0.0172	0.0178	105	103	78-126	2	25
Styrene	0.0426	0.0522	0.0426	0.0527	123	124	70-133	1	25
1,1,1,2-Tetrachloroethane	0.0687	0.0792	0.0687	0.0797	115	116	73-137	1	25
1,1,2,2-Tetrachloroethane	0.0687	0.0893	0.0687	0.0900	130	131	68-138	1	25
Tetrachloroethene	0.0678	0.0745	0.0678	0.0755	110	111	70-130	1	25
Toluene	0.0377	0.0425	0.0377	0.0428	113	114	70-130	1	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 01/27/2020 19:18

Group Number: 2083426

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
1,2,4-Trichlorobenzene	0.0742	0.129	0.0742	0.133	173*	179*	31-155	3	25
1,1,1-Trichloroethane	0.0546	0.0578	0.0546	0.0565	106	104	70-130	2	25
1,1,2-Trichloroethane	0.0546	0.0632	0.0546	0.0639	116	117	76-127	1	25
Trichloroethene	0.0537	0.0602	0.0537	0.0605	112	113	70-130	1	25
Trichlorofluoromethane	0.0562	0.0588	0.0562	0.0585	105	104	70-130	1	25
1,2,3-Trichloropropane	0.0603	0.0763	0.0603	0.0783	127	130	70-136	3	25
1,2,4-Trimethylbenzene	0.0492	0.0649	0.0492	0.0657	132	134	65-146	1	25
1,3,5-Trimethylbenzene	0.0492	0.0615	0.0492	0.0631	125	128	69-141	3	25
Vinyl Acetate	0.0352	0.0447	0.0352	0.0442	127	125	70-151	1	25
Vinyl Chloride	0.0256	0.0303	0.0256	0.0304	119	119	70-135	0	25
m/p-Xylene	0.0434	0.0498	0.0434	0.0507	115	117	78-119	2	25
o-Xylene	0.0434	0.0513	0.0434	0.0522	118	120	70-130	2	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13045 Group # 2083426 Sample # 1240617-18

Client: **Arcadis**					Matrix				Analyses Requested				For Lab Use Only			
Project Name/#: ERP-10954	Site ID #:								Preservation and Filtration Codes				SF #:			
Project Manager: Jerome Oertling	P.O. #: See Site List												SCR #:			
Sampler: Tim Maike	PWSID #: N/A															
Phone #: 973-368-5832	Quote #: 215198															
State where samples were collected: NY	For Compliance: Yes ☐ No ☒															
Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil ☐ Sediment ☐ Tissue ☐	Water: Potable ☐ NPDES ☐ Ground ☐ Surface ☐	Other: Air	Total # of Containers	BTEX/MTBE (TO-15)	TPH (C1-C4) (EPA 18/25)	TPH (C4-C10) (EPA 18/25)	EXTENDED LIST VOC (TO-15)				Remarks
CATOX INF	1/15/20	0815	X				X	1	X	X	X					
CATOX EFF	1/15/20	0810	X				X	1		X	X	X				

Preservation Codes

H = HCl, T = Thiosulfate, N = HNO_3, B = NaOH, S = H_2SO_4, P = H_3PO_4, F = Field Filtered, O = Other

Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category	☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: ______

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	1/15/20	1600			
			[signature]	1-16-2020	1609

Relinquished by Commercial Carrier: UPS ______ FedEx ______ Other ______

Temperature upon receipt N/A °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 272501

Group Number(s):

Client: Arcadis

20E3426

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	01/16/2020
Number of Packages:	1	Number of Projects:	2
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	Yes
Samples Intact:	Yes	Air Quality Flow Controllers Present:	No
Missing Samples:	No	Air Quality Returns:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Cory Jeremiah

2425 New Holland Pike
Lancaster, PA 17605-2425

T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

Report Date: February 24, 2020 17:39

Project: 10954

Account #: 13045
Group Number: 2087860
PO Number: 30007569.00003.C
Release Number: PM: OERTLING
State of Sample Origin: NY

Electronic Copy To	ARCADIS	Attn: Richard Hatch
Electronic Copy To	ARCADIS	Attn: Chad Colwell
Electronic Copy To	ARCADIS	Attn: Nicholas Beyrle

Respectfully Submitted,

Hannah L. Cottman
Project Manager

(717) 556-7383

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
CATOX INF Grab Air	02/12/2020 07:35	1259811
CATOX EFF Grab Air	02/12/2020 07:30	1259812

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: **CATOX INF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 02/13/2020 19:19
Collection Date/Time: 02/12/2020 07:35

ARCADIS
ELLE Sample #: AQ 1259811
ELLE Group #: 2087860
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	C1-C4 Hydrocarbons as hexane[1]	n.a.	< 20	20	< 5	5	1
07090	>C4-C10 Hydrocarbons hexane[1]	n.a.	< 20	20	< 5	5	1
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Benzene	71-43-2	0.020	0.00032	0.0063	0.00010	1
05265	Ethylbenzene	100-41-4	0.0016 J	0.0010	0.00037 J	0.00023	1
05265	Methyl t-Butyl Ether	1634-04-4	< 0.00072	0.00072	< 0.00020	0.00020	1
05265	Toluene	108-88-3	0.021	0.00045	0.0055	0.00012	1
05265	m/p-Xylene	179601-23-1	0.0033 J	0.0018	0.00076 J	0.00042	1
05265	o-Xylene	95-47-6	0.0035 J	0.0013	0.00080 J	0.00029	1

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M2004930AA	02/18/2020 15:04	Jeffrey B Smith	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2005030AA	02/19/2020 16:06	Jacob E Bailey	1

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 02/13/2020 19:19
Collection Date/Time: 02/12/2020 07:30

ARCADIS
ELLE Sample #: AQ 1259812
ELLE Group #: 2087860
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	C1-C4 Hydrocarbons as hexane[1]	n.a.	< 20	20	< 5	5	1
07090	>C4-C10 Hydrocarbons hexane[1]	n.a.	< 20	20	< 5	5	1
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Acetone	67-64-1	0.038	0.0013	0.016	0.00053	1
05265	Acetonitrile	75-05-8	0.0029 J	0.0014	0.0017 J	0.00082	1
05265	Acrolein	107-02-8	< 0.0013	0.0013	< 0.00057	0.00057	1
05265	Acrylonitrile	107-13-1	< 0.00043	0.00043	< 0.00020	0.00020	1
05265	Benzene	71-43-2	0.0031 J	0.00032	0.00099 J	0.00010	1
05265	Bromobenzene[1]	108-86-1	< 0.00064	0.00064	< 0.00010	0.00010	1
05265	Bromodichloromethane	75-27-4	< 0.00080	0.00080	< 0.00012	0.00012	1
05265	Bromoform	75-25-2	< 0.0018	0.0018	< 0.00017	0.00017	1
05265	Bromomethane	74-83-9	< 0.00070	0.00070	< 0.00018	0.00018	1
05265	1,3-Butadiene	106-99-0	< 0.00038	0.00038	< 0.00017	0.00017	1
05265	2-Butanone	78-93-3	0.010	0.00065	0.0034	0.00022	1
05265	tert-Butyl Alcohol	75-65-0	0.0017 J	0.00061	0.00057 J	0.00020	1
05265	Carbon Disulfide	75-15-0	< 0.00037	0.00037	< 0.00012	0.00012	1
05265	Carbon Tetrachloride	56-23-5	< 0.00088	0.00088	< 0.00014	0.00014	1
05265	Chlorobenzene	108-90-7	< 0.00055	0.00055	< 0.00012	0.00012	1
05265	Chlorodifluoromethane[1]	75-45-6	< 0.00053	0.00053	< 0.00015	0.00015	1
05265	Chloroethane	75-00-3	< 0.00047	0.00047	< 0.00018	0.00018	1
05265	Chloroform	67-66-3	0.0018 J	0.00042	0.00037 J	0.000087	1
05265	Chloromethane	74-87-3	< 0.00047	0.00047	< 0.00023	0.00023	1
05265	3-Chloropropene	107-05-1	< 0.00050	0.00050	< 0.00016	0.00016	1
05265	Cumene	98-82-8	< 0.0012	0.0012	< 0.00025	0.00025	1
05265	Dibromochloromethane	124-48-1	< 0.0012	0.0012	< 0.00014	0.00014	1
05265	1,2-Dibromoethane	106-93-4	< 0.0010	0.0010	< 0.00013	0.00013	1
05265	Dibromomethane[1]	74-95-3	< 0.0010	0.0010	< 0.00014	0.00014	1
05265	1,2-Dichlorobenzene	95-50-1	< 0.0011	0.0011	< 0.00019	0.00019	1
05265	1,3-Dichlorobenzene	541-73-1	< 0.0011	0.0011	< 0.00018	0.00018	1
05265	1,4-Dichlorobenzene	106-46-7	< 0.0010	0.0010	< 0.00017	0.00017	1
05265	Dichlorodifluoromethane	75-71-8	0.0019 J	0.00064	0.00039 J	0.00013	1
05265	1,1-Dichloroethane	75-34-3	< 0.00039	0.00039	< 0.000096	0.000096	1
05265	1,2-Dichloroethane	107-06-2	< 0.00020	0.00020	< 0.000050	0.000050	1
05265	1,1-Dichloroethene	75-35-4	< 0.00056	0.00056	< 0.00014	0.00014	1
05265	cis-1,2-Dichloroethene	156-59-2	< 0.00044	0.00044	< 0.00011	0.00011	1
05265	trans-1,2-Dichloroethene	156-60-5	< 0.00036	0.00036	< 0.000090	0.000090	1
05265	Dichlorofluoromethane[1]	75-43-4	< 0.00051	0.00051	< 0.00012	0.00012	1
05265	1,2-Dichloropropane	78-87-5	< 0.00044	0.00044	< 0.000096	0.000096	1
05265	cis-1,3-Dichloropropene	10061-01-5	< 0.00040	0.00040	< 0.000088	0.000088	1
05265	trans-1,3-Dichloropropene	10061-02-6	< 0.00050	0.00050	< 0.00011	0.00011	1
05265	1,4-Dioxane	123-91-1	< 0.00050	0.00050	< 0.00014	0.00014	1
05265	Ethyl Acetate[1]	141-78-6	< 0.00068	0.00068	< 0.00019	0.00019	1

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 02/13/2020 19:19
Collection Date/Time: 02/12/2020 07:30

ARCADIS
ELLE Sample #: AQ 1259812
ELLE Group #: 2087860
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Ethyl Acrylate	140-88-5	< 0.00066	0.00066	< 0.00016	0.00016	1
05265	Ethyl Methacrylate[1]	97-63-2	< 0.00098	0.00098	< 0.00021	0.00021	1
05265	Ethylbenzene	100-41-4	0.0025 J	0.0010	0.00058 J	0.00023	1
05265	4-Ethyltoluene[1]	622-96-8	< 0.00093	0.00093	< 0.00019	0.00019	1
05265	Freon 113	76-13-1	< 0.00084	0.00084	< 0.00011	0.00011	1
05265	Freon 114	76-14-2	< 0.00084	0.00084	< 0.00012	0.00012	1
05265	Heptane	142-82-5	0.0066	0.00098	0.0016	0.00024	1
05265	Hexachlorobutadiene	87-68-3	< 0.0049	0.0049	< 0.00046	0.00046	1
05265	Hexachloroethane	67-72-1	< 0.0022	0.0022	< 0.00023	0.00023	1
05265	Hexane	110-54-3	0.099	0.00046	0.028	0.00013	1
05265	2-Hexanone[1]	591-78-6	< 0.00078	0.00078	< 0.00019	0.00019	1
05265	Isooctane	540-84-1	0.12	0.00061	0.026	0.00013	1
05265	Methyl Acrylate[1]	96-33-3	< 0.00049	0.00049	< 0.00014	0.00014	1
05265	Methyl Iodide	74-88-4	< 0.00070	0.00070	< 0.00012	0.00012	1
05265	Methyl Methacrylate	80-62-6	< 0.00066	0.00066	< 0.00016	0.00016	1
05265	Alpha Methyl Styrene[1]	98-83-9	< 0.00087	0.00087	< 0.00018	0.00018	1
05265	Methyl t-Butyl Ether	1634-04-4	< 0.00072	0.00072	< 0.00020	0.00020	1
05265	4-Methyl-2-pentanone	108-10-1	< 0.00061	0.00061	< 0.00015	0.00015	1
05265	Methylene Chloride	75-09-2	0.028	0.00069	0.0080	0.00020	1
05265	Octane[1]	111-65-9	< 0.0021	0.0021	< 0.00046	0.00046	1
05265	Pentane[1]	109-66-0	0.34	0.0038	0.12	0.0013	10
05265	Propene[1]	115-07-1	< 0.00034	0.00034	< 0.00020	0.00020	1
05265	Styrene	100-42-5	0.0049	0.00089	0.0011	0.00021	1
05265	1,1,1,2-Tetrachloroethane[1]	630-20-6	< 0.00096	0.00096	< 0.00014	0.00014	1
05265	1,1,2,2-Tetrachloroethane	79-34-5	< 0.00096	0.00096	< 0.00014	0.00014	1
05265	Tetrachloroethene	127-18-4	0.14	0.0014	0.021	0.00021	1
05265	Toluene	108-88-3	0.022	0.00045	0.0059	0.00012	1
05265	1,2,4-Trichlorobenzene	120-82-1	< 0.0028	0.0028	< 0.00038	0.00038	1
05265	1,1,1-Trichloroethane	71-55-6	< 0.00065	0.00065	< 0.00012	0.00012	1
05265	1,1,2-Trichloroethane	79-00-5	< 0.00052	0.00052	< 0.000096	0.000096	1
05265	Trichloroethene	79-01-6	< 0.00075	0.00075	< 0.00014	0.00014	1
05265	Trichlorofluoromethane	75-69-4	< 0.00067	0.00067	< 0.00012	0.00012	1
05265	1,2,3-Trichloropropane[1]	96-18-4	< 0.00084	0.00084	< 0.00014	0.00014	1
05265	1,2,4-Trimethylbenzene	95-63-6	0.0050 J	0.0014	0.0010 J	0.00028	1
05265	1,3,5-Trimethylbenzene	108-67-8	< 0.0016	0.0016	< 0.00032	0.00032	1
05265	Vinyl Acetate	108-05-4	< 0.00060	0.00060	< 0.00017	0.00017	1
05265	Vinyl Chloride	75-01-4	< 0.00033	0.00033	< 0.00013	0.00013	1
05265	m/p-Xylene	179601-23-1	0.0086 J	0.0018	0.0020 J	0.00042	1
05265	o-Xylene	95-47-6	0.0045 J	0.0013	0.0010 J	0.00029	1

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

The recovery for a target analyte(s) in the Laboratory Control Spike(s) is outside the QC acceptance limits as noted on the QC

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 02/13/2020 19:19
Collection Date/Time: 02/12/2020 07:30

ARCADIS
ELLE Sample #: AQ 1259812
ELLE Group #: 2087860
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF

Summary. Since the recovery is high and the target analyte(s) was not detected in the sample, the data is reported.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M2004930AA	02/18/2020 15:32	Jeffrey B Smith	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2005130AA	02/20/2020 17:40	Jacob E Bailey	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2005230AA	02/21/2020 13:32	Jacob E Bailey	10

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Reported: 02/24/2020 17:39

Group Number: 2087860

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
Batch number: F2005030AA	Sample number(s): 1259811			
Benzene	< 0.00035	0.00035	< 0.00011	0.00011
Ethylbenzene	< 0.00083	0.00083	< 0.00019	0.00019
Methyl t-Butyl Ether	< 0.00054	0.00054	< 0.00015	0.00015
Toluene	< 0.00045	0.00045	< 0.00012	0.00012
m/p-Xylene	< 0.0011	0.0011	< 0.00026	0.00026
o-Xylene	< 0.00083	0.00083	< 0.00019	0.00019
Batch number: F2005130AA	Sample number(s): 1259812			
Acetone	< 0.0013	0.0013	< 0.00053	0.00053
Acetonitrile	< 0.0014	0.0014	< 0.00083	0.00083
Acrolein	< 0.0014	0.0014	< 0.00062	0.00062
Acrylonitrile	< 0.00028	0.00028	< 0.00013	0.00013
Benzene	< 0.00035	0.00035	< 0.00011	0.00011
Bromobenzene	< 0.00064	0.00064	< 0.00010	0.00010
Bromodichloromethane	< 0.00080	0.00080	< 0.00012	0.00012
Bromoform	< 0.0018	0.0018	< 0.00017	0.00017
Bromomethane	< 0.00070	0.00070	< 0.00018	0.00018
1,3-Butadiene	< 0.00038	0.00038	< 0.00017	0.00017
2-Butanone	< 0.00062	0.00062	< 0.00021	0.00021
tert-Butyl Alcohol	< 0.00064	0.00064	< 0.00021	0.00021
Carbon Disulfide	< 0.00040	0.00040	< 0.00013	0.00013
Carbon Tetrachloride	< 0.00088	0.00088	< 0.00014	0.00014
Chlorobenzene	< 0.00060	0.00060	< 0.00013	0.00013
Chlorodifluoromethane	< 0.00053	0.00053	< 0.00015	0.00015
Chloroethane	< 0.00050	0.00050	< 0.00019	0.00019
Chloroform	< 0.00045	0.00045	< 0.000092	0.000092
Chloromethane	< 0.00050	0.00050	< 0.00024	0.00024
3-Chloropropene	< 0.00047	0.00047	< 0.00015	0.00015
Cumene	< 0.0012	0.0012	< 0.00024	0.00024
Dibromochloromethane	< 0.0011	0.0011	< 0.00013	0.00013
1,2-Dibromoethane	< 0.0010	0.0010	< 0.00013	0.00013
Dibromomethane	< 0.0010	0.0010	< 0.00014	0.00014
1,2-Dichlorobenzene	< 0.0012	0.0012	< 0.00020	0.00020
1,3-Dichlorobenzene	< 0.0011	0.0011	< 0.00019	0.00019
1,4-Dichlorobenzene	< 0.0010	0.0010	< 0.00017	0.00017
Dichlorodifluoromethane	< 0.00064	0.00064	< 0.00013	0.00013
1,1-Dichloroethane	< 0.00036	0.00036	< 0.000089	0.000089
1,2-Dichloroethane	< 0.00032	0.00032	< 0.000080	0.000080
1,1-Dichloroethene	< 0.00056	0.00056	< 0.00014	0.00014

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 02/24/2020 17:39

Group Number: 2087860

Method Blank (continued)

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
cis-1,2-Dichloroethene	< 0.00048	0.00048	< 0.00012	0.00012
trans-1,2-Dichloroethene	< 0.00034	0.00034	< 0.000086	0.000086
Dichlorofluoromethane	< 0.00046	0.00046	< 0.00011	0.00011
1,2-Dichloropropane	< 0.00060	0.00060	< 0.00013	0.00013
cis-1,3-Dichloropropene	< 0.00045	0.00045	< 0.00010	0.00010
trans-1,3-Dichloropropene	< 0.00054	0.00054	< 0.00012	0.00012
1,4-Dioxane	< 0.00061	0.00061	< 0.00017	0.00017
Ethyl Acetate	< 0.00090	0.00090	< 0.00025	0.00025
Ethyl Acrylate	< 0.00066	0.00066	< 0.00016	0.00016
Ethyl Methacrylate	< 0.00089	0.00089	< 0.00019	0.00019
Ethylbenzene	< 0.00083	0.00083	< 0.00019	0.00019
4-Ethyltoluene	< 0.00088	0.00088	< 0.00018	0.00018
Freon 113	< 0.00084	0.00084	< 0.00011	0.00011
Freon 114	< 0.00084	0.00084	< 0.00012	0.00012
Heptane	< 0.00094	0.00094	< 0.00023	0.00023
Hexachlorobutadiene	< 0.0050	0.0050	< 0.00047	0.00047
Hexachloroethane	< 0.0026	0.0026	< 0.00027	0.00027
Hexane	< 0.00046	0.00046	< 0.00013	0.00013
2-Hexanone	< 0.00074	0.00074	< 0.00018	0.00018
Isooctane	< 0.00061	0.00061	< 0.00013	0.00013
Methyl Acrylate	< 0.00049	0.00049	< 0.00014	0.00014
Methyl Iodide	< 0.00087	0.00087	< 0.00015	0.00015
Methyl Methacrylate	< 0.00061	0.00061	< 0.00015	0.00015
Alpha Methyl Styrene	< 0.00087	0.00087	< 0.00018	0.00018
Methyl t-Butyl Ether	< 0.00054	0.00054	< 0.00015	0.00015
4-Methyl-2-pentanone	< 0.00061	0.00061	< 0.00015	0.00015
Methylene Chloride	< 0.00087	0.00087	< 0.00025	0.00025
Octane	< 0.0019	0.0019	< 0.00040	0.00040
Propene	< 0.00028	0.00028	< 0.00016	0.00016
Styrene	< 0.00085	0.00085	< 0.00020	0.00020
1,1,1,2-Tetrachloroethane	< 0.0010	0.0010	< 0.00015	0.00015
1,1,2,2-Tetrachloroethane	< 0.0010	0.0010	< 0.00015	0.00015
Tetrachloroethene	< 0.0017	0.0017	< 0.00025	0.00025
Toluene	< 0.00045	0.00045	< 0.00012	0.00012
1,2,4-Trichlorobenzene	< 0.0028	0.0028	< 0.00038	0.00038
1,1,1-Trichloroethane	< 0.00065	0.00065	< 0.00012	0.00012
1,1,2-Trichloroethane	< 0.00065	0.00065	< 0.00012	0.00012
Trichloroethene	< 0.00097	0.00097	< 0.00018	0.00018
Trichlorofluoromethane	< 0.00084	0.00084	< 0.00015	0.00015
1,2,3-Trichloropropane	< 0.00084	0.00084	< 0.00014	0.00014
1,2,4-Trimethylbenzene	< 0.0014	0.0014	< 0.00028	0.00028
1,3,5-Trimethylbenzene	< 0.0016	0.0016	< 0.00032	0.00032
Vinyl Acetate	< 0.00056	0.00056	< 0.00016	0.00016
Vinyl Chloride	< 0.00031	0.00031	< 0.00012	0.00012
m/p-Xylene	< 0.0011	0.0011	< 0.00026	0.00026

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 02/24/2020 17:39

Group Number: 2087860

Method Blank (continued)

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
o-Xylene	< 0.00083	0.00083	< 0.00019	0.00019
Batch number: F2005230AA	Sample number(s): 1259812			
Pentane	< 0.00038	0.00038	< 0.00013	0.00013
Batch number: M2004930AA	Sample number(s): 1259811-1259812			
C1-C4 Hydrocarbons as hexane	< 20	20	< 5	5
>C4-C10 Hydrocarbons hexane	< 20	20	< 5	5

LCS/LCSD

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F2005030AA	Sample number(s): 1259811								
Benzene	0.0319	0.0355	0.0319	0.0361	111	113	70-130	2	25
Ethylbenzene	0.0434	0.0440	0.0434	0.0438	101	101	70-130	0	25
Methyl t-Butyl Ether	0.0361	0.0322	0.0361	0.0312	89	86	70-130	3	25
Toluene	0.0377	0.0385	0.0377	0.0391	102	104	70-130	1	25
m/p-Xylene	0.0434	0.0414	0.0434	0.0423	95	97	78-119	2	25
o-Xylene	0.0434	0.0419	0.0434	0.0424	96	98	70-130	1	25
Batch number: F2005130AA	Sample number(s): 1259812								
Acetone	0.0238	0.0259	0.0238	0.0257	109	108	70-137	1	25
Acetonitrile	0.0168	0.0192	0.0168	0.0189	114	113	67-143	1	25
Acrolein	0.0229	0.0252	0.0229	0.0255	110	111	70-135	1	25
Acrylonitrile	0.0217	0.0233	0.0217	0.0238	108	110	70-131	2	25
Benzene	0.0319	0.0331	0.0319	0.0329	104	103	70-130	1	25
Bromobenzene	0.0642	0.0751	0.0642	0.0762	117	119	70-130	1	25
Bromodichloromethane	0.0670	0.0691	0.0670	0.0700	103	104	75-134	1	25
Bromoform	0.103	0.117	0.103	0.119	113	115	60-139	1	25
Bromomethane	0.0388	0.0414	0.0388	0.0425	107	109	70-134	3	25
1,3-Butadiene	0.0221	0.0211	0.0221	0.0220	96	99	70-131	4	25
2-Butanone	0.0295	0.0315	0.0295	0.0308	107	105	70-130	2	25
tert-Butyl Alcohol	0.0303	0.0335	0.0303	0.0332	111	109	67-145	1	25
Carbon Disulfide	0.0311	0.0327	0.0311	0.0327	105	105	70-130	0	25
Carbon Tetrachloride	0.0629	0.0636	0.0629	0.0629	101	100	70-130	1	25
Chlorobenzene	0.0460	0.0483	0.0460	0.0492	105	107	76-117	2	25
Chlorodifluoromethane	0.0354	0.0386	0.0354	0.0374	109	106	70-141	3	25
Chloroethane	0.0264	0.0286	0.0264	0.0295	108	112	70-131	3	25
Chloroform	0.0488	0.0522	0.0488	0.0512	107	105	70-130	2	25
Chloromethane	0.0207	0.0211	0.0207	0.0210	102	102	70-138	0	25
3-Chloropropene	0.0313	0.0384	0.0313	0.0379	123	121	70-156	1	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 02/24/2020 17:39

Group Number: 2087860

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Cumene	0.0492	0.0543	0.0492	0.0559	111	114	70-131	3	25
Dibromochloromethane	0.0852	0.0947	0.0852	0.0954	111	112	74-131	1	25
1,2-Dibromoethane	0.0768	0.0821	0.0768	0.0826	107	108	70-130	1	25
Dibromomethane	0.0711	0.0767	0.0711	0.0767	108	108	70-130	0	25
1,2-Dichlorobenzene	0.0601	0.0756	0.0601	0.0774	126	129	61-139	2	25
1,3-Dichlorobenzene	0.0601	0.0784	0.0601	0.0795	130	132	64-140	1	25
1,4-Dichlorobenzene	0.0601	0.0760	0.0601	0.0786	126	131	64-137	3	25
Dichlorodifluoromethane	0.0495	0.0545	0.0495	0.0537	110	109	70-131	2	25
1,1-Dichloroethane	0.0405	0.0420	0.0405	0.0414	104	102	70-130	1	25
1,2-Dichloroethane	0.0405	0.0425	0.0405	0.0425	105	105	70-142	0	25
1,1-Dichloroethene	0.0396	0.0410	0.0396	0.0418	103	105	70-131	2	25
cis-1,2-Dichloroethene	0.0396	0.0405	0.0396	0.0406	102	102	70-130	0	25
trans-1,2-Dichloroethene	0.0396	0.0422	0.0396	0.0414	106	105	70-130	2	25
Dichlorofluoromethane	0.0421	0.0469	0.0421	0.0469	112	111	70-136	0	25
1,2-Dichloropropane	0.0462	0.0481	0.0462	0.0472	104	102	70-130	2	25
cis-1,3-Dichloropropene	0.0454	0.0481	0.0454	0.0481	106	106	70-130	0	25
trans-1,3-Dichloropropene	0.0454	0.0492	0.0454	0.0492	108	108	70-130	0	25
1,4-Dioxane	0.0360	0.0391	0.0360	0.0402	109	112	70-130	3	25
Ethyl Acetate	0.0360	0.0368	0.0360	0.0360	102	100	73-124	2	25
Ethyl Acrylate	0.0409	0.0435	0.0409	0.0439	106	107	71-126	1	25
Ethyl Methacrylate	0.0467	0.0517	0.0467	0.0528	111	113	67-130	2	25
Ethylbenzene	0.0434	0.0452	0.0434	0.0459	104	106	70-130	2	25
4-Ethyltoluene	0.0492	0.0583	0.0492	0.0585	119	119	69-139	0	25
Freon 113	0.0766	0.0737	0.0766	0.0728	96	95	70-130	1	25
Freon 114	0.0699	0.0720	0.0699	0.0704	103	101	70-130	2	25
Heptane	0.0410	0.0398	0.0410	0.0408	97	100	70-130	2	25
Hexachlorobutadiene	0.107	0.146	0.107	0.167	137	156	34-157	13	25
Hexachloroethane	0.0968	0.122	0.0968	0.127	126	131	38-163	4	25
Hexane	0.0352	0.0348	0.0352	0.0344	99	98	70-130	1	25
2-Hexanone	0.0410	0.0480	0.0410	0.0481	117	118	74-134	0	25
Isooctane	0.0467	0.0477	0.0467	0.0474	102	101	70-130	1	25
Methyl Acrylate	0.0352	0.0366	0.0352	0.0363	104	103	75-125	1	25
Methyl Iodide	0.0581	0.0599	0.0581	0.0591	103	102	70-130	1	25
Methyl Methacrylate	0.0409	0.0427	0.0409	0.0428	104	104	73-117	0	25
Alpha Methyl Styrene	0.0483	0.0593	0.0483	0.0618	123	128	56-142	4	25
Methyl t-Butyl Ether	0.0361	0.0357	0.0361	0.0352	99	98	70-130	1	25
4-Methyl-2-pentanone	0.0410	0.0451	0.0410	0.0443	110	108	79-131	2	25
Methylene Chloride	0.0347	0.0418	0.0347	0.0421	120	121	70-139	1	25
Octane	0.0467	0.0467	0.0467	0.0472	100	101	70-130	1	25
Propene	0.0172	0.0173	0.0172	0.0177	101	103	78-126	2	25
Styrene	0.0426	0.0483	0.0426	0.0491	113	115	70-133	2	25
1,1,1,2-Tetrachloroethane	0.0687	0.0752	0.0687	0.0748	110	109	73-137	1	25
1,1,2,2-Tetrachloroethane	0.0687	0.0773	0.0687	0.0791	113	115	68-138	2	25
Tetrachloroethene	0.0678	0.0715	0.0678	0.0730	105	108	70-130	2	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Reported: 02/24/2020 17:39

Group Number: 2087860

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Toluene	0.0377	0.0387	0.0377	0.0400	103	106	70-130	3	25
1,2,4-Trichlorobenzene	0.0742	0.109	0.0742	0.121	146	163*	31-155	11	25
1,1,1-Trichloroethane	0.0546	0.0540	0.0546	0.0537	99	98	70-130	1	25
1,1,2-Trichloroethane	0.0546	0.0599	0.0546	0.0592	110	109	76-127	1	25
Trichloroethene	0.0537	0.0585	0.0537	0.0589	109	110	70-130	1	25
Trichlorofluoromethane	0.0562	0.0564	0.0562	0.0570	100	102	70-130	1	25
1,2,3-Trichloropropane	0.0603	0.0717	0.0603	0.0722	119	120	70-136	1	25
1,2,4-Trimethylbenzene	0.0492	0.0624	0.0492	0.0639	127	130	65-146	2	25
1,3,5-Trimethylbenzene	0.0492	0.0611	0.0492	0.0620	124	126	69-141	1	25
Vinyl Acetate	0.0352	0.0407	0.0352	0.0404	116	115	70-151	1	25
Vinyl Chloride	0.0256	0.0283	0.0256	0.0287	111	112	70-135	1	25
m/p-Xylene	0.0434	0.0457	0.0434	0.0464	105	107	78-119	1	25
o-Xylene	0.0434	0.0463	0.0434	0.0473	107	109	70-130	2	25
Batch number: F2005230AA	Sample number(s): 1259812								
Pentane	0.0295	0.0281	0.0295	0.0272	95	92	70-130	3	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # 13045 Group # 2007600 Sample # 1259811-12

Client: Arcadis		Matrix	Analyses Requested	For Lab Use Only
Project Name/#: ERP-10954	Site ID #:		Preservation and Filtration Codes	SF #:
Project Manager: Jerome Oertling	P.O. #: See Site List			SCR #:
Sampler: Tim Maier	PWSID #: N/A			
Phone #: 973-368-5832	Quote #: 215198			
State where samples were collected: NY	For Compliance: Yes ☐ No ☐			

Preservation Codes: H = HCl; T = Thiosulfate; N = HNO_3; B = NaOH; S = H_2SO_4; P = H_3PO_4; F = Field Filtered; O = Other

Sample Identification	Collection Date	Collection Time	Grab	Composite	Soil ☐ / Sediment ☐ / Tissue ☐	Water: Potable ☐ / NPDES ☐ / Ground ☐ / Surface ☐	Other: Air	Total # of Containers	BTEX/MTBE (TO-15)	TPH (C1-C4) (EPA 18/25)	TPH (C4-C10) (EPA 18/25)	EXTENDED LIST VOC (TO-15)	Remarks
CATOX INF	2/12/20	0735	X				X	1	X	X	X		
CATOX EFF	2/12/20	0730	X				X	1		X	X	X	

Turnaround Time Requested (TAT) (please check): Standard ☐ Rush ☐
(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Data Package Options (please check if required)

Type I (Validation/non-CLP)	☐	MA MCP	☐
Type III (Reduced non-CLP)	☐	CT RCP	☐
Type VI (Raw Data Only)	☐	TX TRRP-13	☐
NJ DKQP	☐	NYSDEC Category ☐ A or ☐ B	

EDD Required? Yes ☐ No ☐ If yes, format: ____________

Relinquished by:	Date	Time	Received by:	Date	Time
Tim Maier	2/12/20	1600			
			[signature]	2-13-20	1919

Relinquished by Commercial Carrier: UPS ______ FedEx ______ Other ______

Temperature upon receipt NA °C

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 275567

Group Number(s):

Client: Arcadis

2007060

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	02/13/2020
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	Yes
Samples Intact:	Yes	Air Quality Flow Controllers Present:	No
Missing Samples:	No	Air Quality Returns:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Melvin Sanchez

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

eurofins | Lancaster Laboratories Environmental

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

ANALYSIS REPORT

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

ARCADIS
Suite 600
630 Plaza Drive
Highlands Ranch CO 80129

Report Date: March 23, 2020 14:15

Project: 10954

Account #: 13045
Group Number: 2092059
PO Number: 30007569.00003.C
Release Number: PM: BEYRLE
State of Sample Origin: NY

Electronic Copy To	ARCADIS	Attn: Richard Hatch
Electronic Copy To	ARCADIS	Attn: Nicholas Beyrle
Electronic Copy To	ARCADIS	Attn: Chad Colwell

Respectfully Submitted,

Hannah L. Cottman
Project Manager

(717) 556-7383

To view our laboratory's current scopes of accreditation please go to https://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/certifications-and-accreditations-eurofins-lancaster-laboratories-environmental/ . Historical copies may be requested through your project manager.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

SAMPLE INFORMATION

Client Sample Description	Sample Collection Date/Time	ELLE#
CATOX INF Grab Air	03/11/2020 07:35	1279032
CATOX EFF Grab Air	03/11/2020 07:30	1279033

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Sample Description: **CATOX INF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 03/12/2020 19:00
Collection Date/Time: 03/11/2020 07:35

ARCADIS
ELLE Sample #: AQ 1279032
ELLE Group #: 2092059
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	C1-C4 Hydrocarbons as hexane[1]	n.a.	20 J	20	6 J	5	1
07090	>C4-C10 Hydrocarbons hexane[1]	n.a.	37	20	10	5	1
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Benzene	71-43-2	0.071	0.0032	0.022	0.0010	10
05265	Ethylbenzene	100-41-4	< 0.010	0.010	< 0.0023	0.0023	10
05265	Methyl t-Butyl Ether	1634-04-4	< 0.0072	0.0072	< 0.0020	0.0020	10
05265	Toluene	108-88-3	0.11	0.0045	0.028	0.0012	10
05265	m/p-Xylene	179601-23-1	< 0.018	0.018	< 0.0042	0.0042	10
05265	o-Xylene	95-47-6	0.026 J	0.013	0.0060 J	0.0029	10

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

MDL = Method Detection Limit

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M2007330AA	03/13/2020 13:04	Alexander D Sechrist	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2007830AA	03/18/2020 15:52	Jacob E Bailey	10

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 03/12/2020 19:00
Collection Date/Time: 03/11/2020 07:30

ARCADIS
ELLE Sample #: AQ 1279033
ELLE Group #: 2092059
Matrix: Air

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA 18 mod/EPA 25 mod**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
07090	C1-C4 Hydrocarbons as hexane[1]	n.a.	30 J	20	10 J	5	1
07090	>C4-C10 Hydrocarbons hexane[1]	n.a.	< 20	20	< 5	5	1
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Acetone	67-64-1	0.056	0.0013	0.024	0.00053	1
05265	Acetonitrile	75-05-8	0.0043 J	0.0014	0.0025 J	0.00082	1
05265	Acrolein	107-02-8	< 0.0013	0.0013	< 0.00057	0.00057	1
05265	Acrylonitrile	107-13-1	< 0.00043	0.00043	< 0.00020	0.00020	1
05265	Benzene	71-43-2	0.0046	0.00032	0.0014	0.00010	1
05265	Bromobenzene[1]	108-86-1	< 0.00064	0.00064	< 0.00010	0.00010	1
05265	Bromodichloromethane	75-27-4	< 0.00080	0.00080	< 0.00012	0.00012	1
05265	Bromoform	75-25-2	< 0.0018	0.0018	< 0.00017	0.00017	1
05265	Bromomethane	74-83-9	< 0.00070	0.00070	< 0.00018	0.00018	1
05265	1,3-Butadiene	106-99-0	< 0.00038	0.00038	< 0.00017	0.00017	1
05265	2-Butanone	78-93-3	0.020	0.00065	0.0066	0.00022	1
05265	tert-Butyl Alcohol	75-65-0	0.00066 J	0.00061	0.00022 J	0.00020	1
05265	Carbon Disulfide	75-15-0	< 0.00037	0.00037	< 0.00012	0.00012	1
05265	Carbon Tetrachloride	56-23-5	< 0.00088	0.00088	< 0.00014	0.00014	1
05265	Chlorobenzene	108-90-7	< 0.00055	0.00055	< 0.00012	0.00012	1
05265	Chlorodifluoromethane[1]	75-45-6	< 0.00053	0.00053	< 0.00015	0.00015	1
05265	Chloroethane	75-00-3	< 0.00047	0.00047	< 0.00018	0.00018	1
05265	Chloroform	67-66-3	< 0.00042	0.00042	< 0.000087	0.000087	1
05265	Chloromethane	74-87-3	< 0.00047	0.00047	< 0.00023	0.00023	1
05265	3-Chloropropene	107-05-1	< 0.00050	0.00050	< 0.00016	0.00016	1
05265	Cumene	98-82-8	< 0.0012	0.0012	< 0.00025	0.00025	1
05265	Dibromochloromethane	124-48-1	< 0.0012	0.0012	< 0.00014	0.00014	1
05265	1,2-Dibromoethane	106-93-4	< 0.0010	0.0010	< 0.00013	0.00013	1
05265	Dibromomethane[1]	74-95-3	< 0.0010	0.0010	< 0.00014	0.00014	1
05265	1,2-Dichlorobenzene	95-50-1	< 0.0011	0.0011	< 0.00019	0.00019	1
05265	1,3-Dichlorobenzene	541-73-1	< 0.0011	0.0011	< 0.00018	0.00018	1
05265	1,4-Dichlorobenzene	106-46-7	< 0.0010	0.0010	< 0.00017	0.00017	1
05265	Dichlorodifluoromethane	75-71-8	0.0019 J	0.00064	0.00039 J	0.00013	1
05265	1,1-Dichloroethane	75-34-3	< 0.00039	0.00039	< 0.000096	0.000096	1
05265	1,2-Dichloroethane	107-06-2	< 0.00020	0.00020	< 0.000050	0.000050	1
05265	1,1-Dichloroethene	75-35-4	< 0.00056	0.00056	< 0.00014	0.00014	1
05265	cis-1,2-Dichloroethene	156-59-2	< 0.00044	0.00044	< 0.00011	0.00011	1
05265	trans-1,2-Dichloroethene	156-60-5	< 0.00036	0.00036	< 0.000090	0.000090	1
05265	Dichlorofluoromethane[1]	75-43-4	< 0.00051	0.00051	< 0.00012	0.00012	1
05265	1,2-Dichloropropane	78-87-5	< 0.00044	0.00044	< 0.000096	0.000096	1
05265	cis-1,3-Dichloropropene	10061-01-5	< 0.00040	0.00040	< 0.000088	0.000088	1
05265	trans-1,3-Dichloropropene	10061-02-6	< 0.00050	0.00050	< 0.00011	0.00011	1
05265	1,4-Dioxane	123-91-1	< 0.00050	0.00050	< 0.00014	0.00014	1
05265	Ethyl Acetate[1]	141-78-6	< 0.00068	0.00068	< 0.00019	0.00019	1

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

ARCADIS
ELLE Sample #: AQ 1279033
ELLE Group #: 2092059
Matrix: Air

Project Name: **10954**

Submittal Date/Time: 03/12/2020 19:00
Collection Date/Time: 03/11/2020 07:30

CAT No.	Analysis Name	CAS Number	Final Result	MDL	Final Result	MDL	DF
Volatiles in Air	**EPA TO-15**		**mg/m3**	**mg/m3**	**ppm(v)**	**ppm(v)**	
05265	Ethyl Acrylate	140-88-5	< 0.00066	0.00066	< 0.00016	0.00016	1
05265	Ethyl Methacrylate[1]	97-63-2	< 0.00098	0.00098	< 0.00021	0.00021	1
05265	Ethylbenzene	100-41-4	0.0010 J	0.0010	0.00024 J	0.00023	1
05265	4-Ethyltoluene[1]	622-96-8	< 0.00093	0.00093	< 0.00019	0.00019	1
05265	Freon 113	76-13-1	< 0.00084	0.00084	< 0.00011	0.00011	1
05265	Freon 114	76-14-2	< 0.00084	0.00084	< 0.00012	0.00012	1
05265	Heptane	142-82-5	0.023	0.00098	0.0056	0.00024	1
05265	Hexachlorobutadiene	87-68-3	< 0.0049	0.0049	< 0.00046	0.00046	1
05265	Hexachloroethane	67-72-1	< 0.0022	0.0022	< 0.00023	0.00023	1
05265	Hexane	110-54-3	0.36	0.0092	0.10	0.0026	20
05265	2-Hexanone[1]	591-78-6	< 0.00078	0.00078	< 0.00019	0.00019	1
05265	Isooctane	540-84-1	0.26	0.00061	0.055	0.00013	1
05265	Methyl Acrylate[1]	96-33-3	< 0.00049	0.00049	< 0.00014	0.00014	1
05265	Methyl Iodide	74-88-4	< 0.00070	0.00070	< 0.00012	0.00012	1
05265	Methyl Methacrylate	80-62-6	< 0.00066	0.00066	< 0.00016	0.00016	1
05265	Alpha Methyl Styrene[1]	98-83-9	< 0.00087	0.00087	< 0.00018	0.00018	1
05265	Methyl t-Butyl Ether	1634-04-4	< 0.00072	0.00072	< 0.00020	0.00020	1
05265	4-Methyl-2-pentanone	108-10-1	< 0.00061	0.00061	< 0.00015	0.00015	1
05265	Methylene Chloride	75-09-2	< 0.00069	0.00069	< 0.00020	0.00020	1
05265	Octane[1]	111-65-9	< 0.0021	0.0021	< 0.00046	0.00046	1
05265	Pentane[1]	109-66-0	2.2	0.0077	0.74	0.0026	20
05265	Propene[1]	115-07-1	0.018	0.00034	0.011	0.00020	1
05265	Styrene	100-42-5	< 0.00089	0.00089	< 0.00021	0.00021	1
05265	1,1,1,2-Tetrachloroethane[1]	630-20-6	< 0.00096	0.00096	< 0.00014	0.00014	1
05265	1,1,2,2-Tetrachloroethane	79-34-5	< 0.00096	0.00096	< 0.00014	0.00014	1
05265	Tetrachloroethene	127-18-4	0.076	0.0014	0.011	0.00021	1
05265	Toluene	108-88-3	0.016	0.00045	0.0041	0.00012	1
05265	1,2,4-Trichlorobenzene	120-82-1	< 0.0028	0.0028	< 0.00038	0.00038	1
05265	1,1,1-Trichloroethane	71-55-6	< 0.00065	0.00065	< 0.00012	0.00012	1
05265	1,1,2-Trichloroethane	79-00-5	< 0.00052	0.00052	< 0.000096	0.000096	1
05265	Trichloroethene	79-01-6	< 0.00075	0.00075	< 0.00014	0.00014	1
05265	Trichlorofluoromethane	75-69-4	< 0.00067	0.00067	< 0.00012	0.00012	1
05265	1,2,3-Trichloropropane[1]	96-18-4	< 0.00084	0.00084	< 0.00014	0.00014	1
05265	1,2,4-Trimethylbenzene	95-63-6	0.0019 J	0.0014	0.00039 J	0.00028	1
05265	1,3,5-Trimethylbenzene	108-67-8	< 0.0016	0.0016	< 0.00032	0.00032	1
05265	Vinyl Acetate	108-05-4	< 0.00060	0.00060	< 0.00017	0.00017	1
05265	Vinyl Chloride	75-01-4	< 0.00033	0.00033	< 0.00013	0.00013	1
05265	m/p-Xylene	179601-23-1	0.0034 J	0.0018	0.00078 J	0.00042	1
05265	o-Xylene	95-47-6	0.0018 J	0.0013	0.00042 J	0.00029	1

The sample was collected in a Tedlar bag which is not the container referenced in the EPA method.

MDL = Method Detection Limit

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Sample Description: **CATOX EFF Grab Air**
10954
138-50 Hillside Ave - Jamaica, NY

Project Name: **10954**

Submittal Date/Time: 03/12/2020 19:00
Collection Date/Time: 03/11/2020 07:30

ARCADIS
ELLE Sample #: AQ 1279033
ELLE Group #: 2092059
Matrix: Air

Sample Comments

State of New York Certification No. 10670

[1] = This analyte was not on the laboratory's NYSDOH Scope of Accreditation at the time of analysis.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
07090	BTEX/MTBE/Hydrocarbons by GC	EPA 18 mod/EPA 25 mod	1	M2007330AA	03/13/2020 13:32	Alexander D Sechrist	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2007830AA	03/18/2020 14:21	Jacob E Bailey	1
05265	TO-15 VOA Ext. List Tedlar	EPA TO-15	1	F2007830AA	03/18/2020 19:56	Jacob E Bailey	20

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Reported: 03/23/2020 14:15

Group Number: 2092059

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
Batch number: F2007830AA	Sample number(s): 1279032-1279033			
Acetone	< 0.0013	0.0013	< 0.00053	0.00053
Acetonitrile	< 0.0014	0.0014	< 0.00083	0.00083
Acrolein	< 0.0014	0.0014	< 0.00062	0.00062
Acrylonitrile	< 0.00028	0.00028	< 0.00013	0.00013
Benzene	< 0.00035	0.00035	< 0.00011	0.00011
Bromobenzene	< 0.00064	0.00064	< 0.00010	0.00010
Bromodichloromethane	< 0.00080	0.00080	< 0.00012	0.00012
Bromoform	< 0.0018	0.0018	< 0.00017	0.00017
Bromomethane	< 0.00070	0.00070	< 0.00018	0.00018
1,3-Butadiene	< 0.00038	0.00038	< 0.00017	0.00017
2-Butanone	< 0.00062	0.00062	< 0.00021	0.00021
tert-Butyl Alcohol	< 0.00064	0.00064	< 0.00021	0.00021
Carbon Disulfide	< 0.00040	0.00040	< 0.00013	0.00013
Carbon Tetrachloride	< 0.00088	0.00088	< 0.00014	0.00014
Chlorobenzene	< 0.00060	0.00060	< 0.00013	0.00013
Chlorodifluoromethane	< 0.00053	0.00053	< 0.00015	0.00015
Chloroethane	< 0.00050	0.00050	< 0.00019	0.00019
Chloroform	< 0.00045	0.00045	< 0.000092	0.000092
Chloromethane	< 0.00050	0.00050	< 0.00024	0.00024
3-Chloropropene	< 0.00047	0.00047	< 0.00015	0.00015
Cumene	< 0.0012	0.0012	< 0.00024	0.00024
Dibromochloromethane	< 0.0011	0.0011	< 0.00013	0.00013
1,2-Dibromoethane	< 0.0010	0.0010	< 0.00013	0.00013
Dibromomethane	< 0.0010	0.0010	< 0.00014	0.00014
1,2-Dichlorobenzene	< 0.0012	0.0012	< 0.00020	0.00020
1,3-Dichlorobenzene	< 0.0011	0.0011	< 0.00019	0.00019
1,4-Dichlorobenzene	< 0.0010	0.0010	< 0.00017	0.00017
Dichlorodifluoromethane	< 0.00064	0.00064	< 0.00013	0.00013
1,1-Dichloroethane	< 0.00036	0.00036	< 0.000089	0.000089
1,2-Dichloroethane	< 0.00032	0.00032	< 0.000080	0.000080
1,1-Dichloroethene	< 0.00056	0.00056	< 0.00014	0.00014
cis-1,2-Dichloroethene	< 0.00048	0.00048	< 0.00012	0.00012
trans-1,2-Dichloroethene	< 0.00034	0.00034	< 0.000086	0.000086
Dichlorofluoromethane	< 0.00046	0.00046	< 0.00011	0.00011
1,2-Dichloropropane	< 0.00060	0.00060	< 0.00013	0.00013
cis-1,3-Dichloropropene	< 0.00045	0.00045	< 0.00010	0.00010
trans-1,3-Dichloropropene	< 0.00054	0.00054	< 0.00012	0.00012
1,4-Dioxane	< 0.00061	0.00061	< 0.00017	0.00017
Ethyl Acetate	< 0.00090	0.00090	< 0.00025	0.00025

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 03/23/2020 14:15

Group Number: 2092059

Method Blank (continued)

Analysis Name	Result mg/m3	MDL mg/m3	Result ppm(v)	MDL ppm(v)
Ethyl Acrylate	< 0.00066	0.00066	< 0.00016	0.00016
Ethyl Methacrylate	< 0.00089	0.00089	< 0.00019	0.00019
Ethylbenzene	< 0.00083	0.00083	< 0.00019	0.00019
4-Ethyltoluene	< 0.00088	0.00088	< 0.00018	0.00018
Freon 113	< 0.00084	0.00084	< 0.00011	0.00011
Freon 114	< 0.00084	0.00084	< 0.00012	0.00012
Heptane	< 0.00094	0.00094	< 0.00023	0.00023
Hexachlorobutadiene	< 0.0050	0.0050	< 0.00047	0.00047
Hexachloroethane	< 0.0026	0.0026	< 0.00027	0.00027
Hexane	< 0.00046	0.00046	< 0.00013	0.00013
2-Hexanone	< 0.00074	0.00074	< 0.00018	0.00018
Isooctane	< 0.00061	0.00061	< 0.00013	0.00013
Methyl Acrylate	< 0.00049	0.00049	< 0.00014	0.00014
Methyl Iodide	< 0.00087	0.00087	< 0.00015	0.00015
Methyl Methacrylate	< 0.00061	0.00061	< 0.00015	0.00015
Alpha Methyl Styrene	< 0.00087	0.00087	< 0.00018	0.00018
Methyl t-Butyl Ether	< 0.00054	0.00054	< 0.00015	0.00015
4-Methyl-2-pentanone	< 0.00061	0.00061	< 0.00015	0.00015
Methylene Chloride	< 0.00087	0.00087	< 0.00025	0.00025
Octane	< 0.0019	0.0019	< 0.00040	0.00040
Pentane	< 0.00038	0.00038	< 0.00013	0.00013
Propene	< 0.00028	0.00028	< 0.00016	0.00016
Styrene	< 0.00085	0.00085	< 0.00020	0.00020
1,1,1,2-Tetrachloroethane	< 0.0010	0.0010	< 0.00015	0.00015
1,1,2,2-Tetrachloroethane	< 0.0010	0.0010	< 0.00015	0.00015
Tetrachloroethene	< 0.0017	0.0017	< 0.00025	0.00025
Toluene	< 0.00045	0.00045	< 0.00012	0.00012
1,2,4-Trichlorobenzene	< 0.0028	0.0028	< 0.00038	0.00038
1,1,1-Trichloroethane	< 0.00065	0.00065	< 0.00012	0.00012
1,1,2-Trichloroethane	< 0.00065	0.00065	< 0.00012	0.00012
Trichloroethene	< 0.00097	0.00097	< 0.00018	0.00018
Trichlorofluoromethane	< 0.00084	0.00084	< 0.00015	0.00015
1,2,3-Trichloropropane	< 0.00084	0.00084	< 0.00014	0.00014
1,2,4-Trimethylbenzene	< 0.0014	0.0014	< 0.00028	0.00028
1,3,5-Trimethylbenzene	< 0.0016	0.0016	< 0.00032	0.00032
Vinyl Acetate	< 0.00056	0.00056	< 0.00016	0.00016
Vinyl Chloride	< 0.00031	0.00031	< 0.00012	0.00012
m/p-Xylene	< 0.0011	0.0011	< 0.00026	0.00026
o-Xylene	< 0.00083	0.00083	< 0.00019	0.00019
Batch number: M2007330AA	Sample number(s): 1279032-1279033			
C1-C4 Hydrocarbons as hexane	< 20	20	< 5	5
>C4-C10 Hydrocarbons hexane	< 20	20	< 5	5

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Reported: 03/23/2020 14:15

Group Number: 2092059

LCS/LCSD

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F2007830AA	Sample number(s): 1279032-1279033								
Acetone	0.0238	0.0265	0.0238	0.0256	112	108	70-137	4	25
Acetonitrile	0.0168	0.0182	0.0168	0.0187	108	111	67-143	3	25
Acrolein	0.0229	0.0273	0.0229	0.0265	119	115	70-135	3	25
Acrylonitrile	0.0217	0.0235	0.0217	0.0232	108	107	70-131	1	25
Benzene	0.0319	0.0336	0.0319	0.0330	105	103	70-130	2	25
Bromobenzene	0.0642	0.0576	0.0642	0.0595	90	93	70-130	3	25
Bromodichloromethane	0.0670	0.0661	0.0670	0.0660	99	99	75-134	0	25
Bromoform	0.103	0.0929	0.103	0.0846	90	82	60-139	9	25
Bromomethane	0.0388	0.0464	0.0388	0.0449	119	116	70-134	3	25
1,3-Butadiene	0.0221	0.0232	0.0221	0.0229	105	104	70-131	1	25
2-Butanone	0.0295	0.0319	0.0295	0.0321	108	109	70-130	0	25
tert-Butyl Alcohol	0.0303	0.0343	0.0303	0.0352	113	116	67-145	2	25
Carbon Disulfide	0.0311	0.0348	0.0311	0.0338	112	109	70-130	3	25
Carbon Tetrachloride	0.0629	0.0624	0.0629	0.0626	99	100	70-130	0	25
Chlorobenzene	0.0460	0.0431	0.0460	0.0427	94	93	76-117	1	25
Chlorodifluoromethane	0.0354	0.0392	0.0354	0.0388	111	110	70-141	1	25
Chloroethane	0.0264	0.0303	0.0264	0.0296	115	112	70-131	2	25
Chloroform	0.0488	0.0516	0.0488	0.0523	106	107	70-130	1	25
Chloromethane	0.0207	0.0217	0.0207	0.0216	105	105	70-138	0	25
3-Chloropropene	0.0313	0.0409	0.0313	0.0409	131	131	70-156	0	25
Cumene	0.0492	0.0493	0.0492	0.0497	100	101	70-131	1	25
Dibromochloromethane	0.0852	0.0864	0.0852	0.0833	101	98	74-131	4	25
1,2-Dibromoethane	0.0768	0.0750	0.0768	0.0763	98	99	70-130	2	25
Dibromomethane	0.0711	0.0756	0.0711	0.0730	106	103	70-130	4	25
1,2-Dichlorobenzene	0.0601	0.0495	0.0601	0.0518	82	86	61-139	4	25
1,3-Dichlorobenzene	0.0601	0.0543	0.0601	0.0544	90	90	64-140	0	25
1,4-Dichlorobenzene	0.0601	0.0533	0.0601	0.0557	89	93	64-137	4	25
Dichlorodifluoromethane	0.0495	0.0561	0.0495	0.0556	114	112	70-131	1	25
1,1-Dichloroethane	0.0405	0.0422	0.0405	0.0423	104	104	70-130	0	25
1,2-Dichloroethane	0.0405	0.0414	0.0405	0.0409	102	101	70-142	1	25
1,1-Dichloroethene	0.0396	0.0449	0.0396	0.0442	113	111	70-131	2	25
cis-1,2-Dichloroethene	0.0396	0.0424	0.0396	0.0423	107	107	70-130	0	25
trans-1,2-Dichloroethene	0.0396	0.0429	0.0396	0.0435	108	110	70-130	1	25
Dichlorofluoromethane	0.0421	0.0487	0.0421	0.0490	116	116	70-136	1	25
1,2-Dichloropropane	0.0462	0.0466	0.0462	0.0449	101	97	70-130	4	25
cis-1,3-Dichloropropene	0.0454	0.0471	0.0454	0.0449	104	99	70-130	5	25
trans-1,3-Dichloropropene	0.0454	0.0472	0.0454	0.0460	104	101	70-130	3	25
1,4-Dioxane	0.0360	0.0391	0.0360	0.0381	109	106	70-130	3	25
Ethyl Acetate	0.0360	0.0370	0.0360	0.0372	103	103	73-124	0	25
Ethyl Acrylate	0.0409	0.0425	0.0409	0.0412	104	101	71-126	3	25
Ethyl Methacrylate	0.0467	0.0522	0.0467	0.0505	112	108	67-130	3	25
Ethylbenzene	0.0434	0.0411	0.0434	0.0412	95	95	70-130	0	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: ARCADIS
Reported: 03/23/2020 14:15

Group Number: 2092059

LCS/LCSD (continued)

Analysis Name	LCS Spike Added mg/m3	LCS Conc mg/m3	LCSD Spike Added mg/m3	LCSD Conc mg/m3	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
4-Ethyltoluene	0.0492	0.0475	0.0492	0.0491	97	100	69-139	3	25
Freon 113	0.0766	0.0751	0.0766	0.0736	98	96	70-130	2	25
Freon 114	0.0699	0.0758	0.0699	0.0746	108	107	70-130	2	25
Heptane	0.0410	0.0410	0.0410	0.0415	100	101	70-130	1	25
Hexachlorobutadiene	0.107	0.0922	0.107	0.0928	86	87	34-157	1	25
Hexachloroethane	0.0968	0.0864	0.0968	0.0839	89	87	38-163	3	25
Hexane	0.0352	0.0363	0.0352	0.0366	103	104	70-130	1	25
2-Hexanone	0.0410	0.0434	0.0410	0.0438	106	107	74-134	1	25
Isooctane	0.0467	0.0487	0.0467	0.0487	104	104	70-130	0	25
Methyl Acrylate	0.0352	0.0373	0.0352	0.0379	106	108	75-125	2	25
Methyl Iodide	0.0581	0.0621	0.0581	0.0628	107	108	70-130	1	25
Methyl Methacrylate	0.0409	0.0413	0.0409	0.0405	101	99	73-117	2	25
Alpha Methyl Styrene	0.0483	0.0418	0.0483	0.0414	87	86	56-142	1	25
Methyl t-Butyl Ether	0.0361	0.0380	0.0361	0.0375	105	104	70-130	1	25
4-Methyl-2-pentanone	0.0410	0.0420	0.0410	0.0410	103	100	79-131	2	25
Methylene Chloride	0.0347	0.0440	0.0347	0.0434	127	125	70-139	1	25
Octane	0.0467	0.0472	0.0467	0.0479	101	102	70-130	1	25
Pentane	0.0295	0.0303	0.0295	0.0304	103	103	70-130	0	25
Propene	0.0172	0.0183	0.0172	0.0191	106	111	78-126	4	25
Styrene	0.0426	0.0418	0.0426	0.0403	98	95	70-133	4	25
1,1,1,2-Tetrachloroethane	0.0687	0.0641	0.0687	0.0621	93	91	73-137	3	25
1,1,2,2-Tetrachloroethane	0.0687	0.0586	0.0687	0.0582	85	85	68-138	1	25
Tetrachloroethene	0.0678	0.0669	0.0678	0.0654	99	96	70-130	2	25
Toluene	0.0377	0.0371	0.0377	0.0362	98	96	70-130	2	25
1,2,4-Trichlorobenzene	0.0742	0.0738	0.0742	0.0770	99	104	31-155	4	25
1,1,1-Trichloroethane	0.0546	0.0557	0.0546	0.0549	102	101	70-130	1	25
1,1,2-Trichloroethane	0.0546	0.0540	0.0546	0.0534	99	98	76-127	1	25
Trichloroethene	0.0537	0.0558	0.0537	0.0547	104	102	70-130	2	25
Trichlorofluoromethane	0.0562	0.0578	0.0562	0.0566	103	101	70-130	2	25
1,2,3-Trichloropropane	0.0603	0.0524	0.0603	0.0536	87	89	70-136	2	25
1,2,4-Trimethylbenzene	0.0492	0.0451	0.0492	0.0460	92	94	65-146	2	25
1,3,5-Trimethylbenzene	0.0492	0.0473	0.0492	0.0480	96	98	69-141	1	25
Vinyl Acetate	0.0352	0.0428	0.0352	0.0428	122	122	70-151	0	25
Vinyl Chloride	0.0256	0.0285	0.0256	0.0290	112	113	70-135	1	25
m/p-Xylene	0.0434	0.0410	0.0434	0.0419	94	97	78-119	2	25
o-Xylene	0.0434	0.0405	0.0434	0.0407	93	94	70-130	0	25

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-6766 • www.EurofinsUS.com/LancLabsEnv

Quality Control Summary

Client Name: ARCADIS
Group Number: 2092059
Reported: 03/23/2020 14:15

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories Environmental

Acct. # B045 Group # 2092059 Sample # 12790 32-33

Client: Arcadis

Project Name/#: ERP-10954 | Site ID #:

Project Manager: Jerome Oertling | P.O. #: See Site List

Sampler: Tim Maike | PWSID #: N/A

Phone #: 973-368-5832 | Quote #: 215198

State where samples were collected: NY | For Compliance: Yes ☐ No ☒

Matrix: Soil ☐ Sediment ☐ Tissue ☐ | Water: Potable ☐ Ground ☐ NPDES ☐ Surface ☐ | Other: Air

Analyses Requested / Preservation and Filtration Codes

Sample Identification	Date	Time	Grab	Composite	Soil	Water	Other: Air	Total # of Containers	BTEX/MTBE (TO-15)	TPH (C1-C4) (EPA 18/25)	TPH (C4-C10) (EPA 18/25)	EXTENDED LIST VOC (TO-15)						Remarks
CATOX INF	3/11/20	0735	X				X	1	X	X	X							
CATOX EFF	3/11/20	0730	X				X	1		X	X	X						

For Lab Use Only

SF #: ____________

SCR #: ____________

Preservation Codes

H = HCl T = Thiosulfate
$N = HNO_3$ B = NaOH
$S = H_2SO_4$ $P = H_3PO_4$
F = Field Filtered O = Other

Turnaround Time Requested (TAT) (please check): Standard ☒ Rush ☐

(Rush TAT is subject to laboratory approval and surcharges.)

Date results are needed:

Rush results requested by (please check): E-Mail ☐ Phone ☐

E-mail Address:

Phone:

Relinquished by	Date	Time	Received by	Date	Time
Relinquished by: Tim [signature]	3/11/20	1600	Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by:		
Relinquished by:			Received by: [signature]	3-12-20	1900

Relinquished by Commercial Carrier:

UPS _______ FedEx _______ Other _______

Temperature upon receipt NA °C

Data Package Options (please check if required)

Type I (Validation/non-CLP) ☐ MA MCP ☐
Type III (Reduced non-CLP) ☐ CT RCP ☐
Type VI (Raw Data Only) ☐ TX TRRP-13 ☐
NJ DKQP ☐ NYSDEC Category ☐ A or ☐ B

EDD Required? Yes ☐ No ☐ If yes, format: ____________

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 278661

Group Number(s): 2092059

Client: Arcadis

Delivery and Receipt Information

Delivery Method:	ELLE Courier	Arrival Date:	03/12/2020
Number of Packages:	1	Number of Projects:	1
State/Province of Origin:	NY		

Arrival Condition Summary

Shipping Container Sealed:	No	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	No	Sample Date/Times match COC:	Yes
Samples Chilled:	N/A	Total Trip Blank Qty:	0
Paperwork Enclosed:	Yes	Air Quality Samples Present:	Yes
Samples Intact:	Yes	Air Quality Flow Controllers Present:	No
Missing Samples:	No	Air Quality Returns:	No
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Ann-Marie Phillips

2425 New Holland Pike
Lancaster, PA 17605-2425
T | 717-656-2300
F | 717-656-2681
www.LancasterLabs.com

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

BMQL	Below Minimum Quantitation Level	**mL**	milliliter(s)
C	degrees Celsius	**MPN**	Most Probable Number
cfu	colony forming units	**N.D.**	non-detect
CP Units	cobalt-chloroplatinate units	**ng**	nanogram(s)
F	degrees Fahrenheit	**NTU**	nephelometric turbidity units
g	gram(s)	**pg/L**	picogram/liter
IU	International Units	**RL**	Reporting Limit
kg	kilogram(s)	**TNTC**	Too Numerous To Count
L	liter(s)	**µg**	microgram(s)
lb.	pound(s)	**µL**	microliter(s)
m3	cubic meter(s)	**umhos/cm**	micromhos/cm
meq	milliequivalents	**MCL**	Maximum Contamination Limit
mg	milligram(s)		

<	less than
>	greater than
ppm	parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.
ppb	parts per billion
Dry weight basis	Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as “analyze immediately” are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

eurofins | Lancaster Laboratories Environmental

Data Qualifiers

Qualifier	Definition
C	Result confirmed by reanalysis
D1	Indicates for dual column analyses that the result is reported from column 1
D2	Indicates for dual column analyses that the result is reported from column 2
E	Concentration exceeds the calibration range
K1	Initial Calibration Blank is above the QC limit and the sample result is ND
K2	Continuing Calibration Blank is above the QC limit and the sample result is ND
K3	Initial Calibration Verification is above the QC limit and the sample result is ND
K4	Continuing Calibration Verification is above the QC limit and the sample result is ND
J (or G, I, X)	Estimated value >= the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P	Concentration difference between the primary and confirmation column >40%. The lower result is reported.
P^	Concentration difference between the primary and confirmation column > 40%. The higher result is reported.
U	Analyte was not detected at the value indicated
V	Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference.
W	The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.
Z	Laboratory Defined - see analysis report

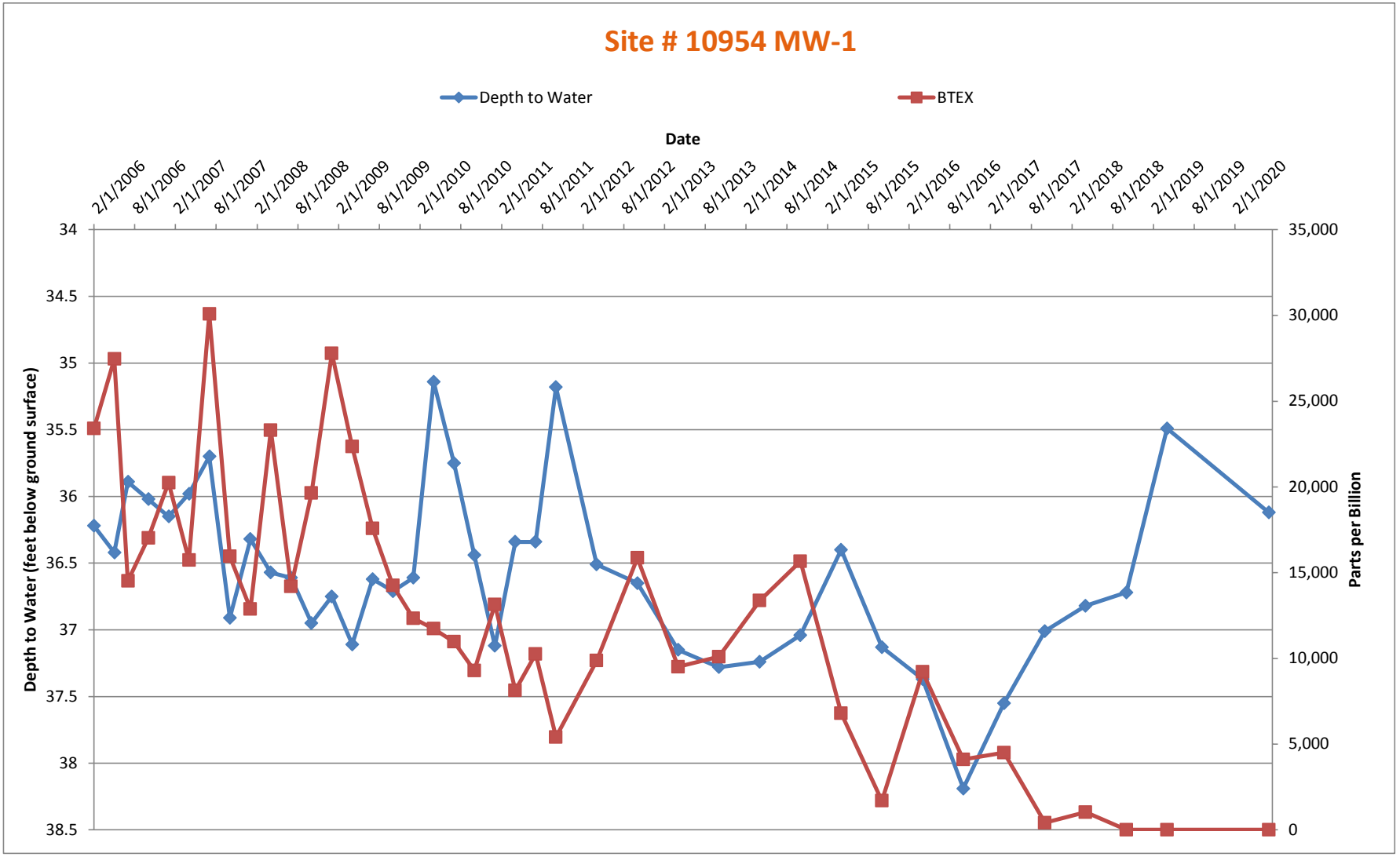
Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods.
Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

APPENDIX C

Hydrographs

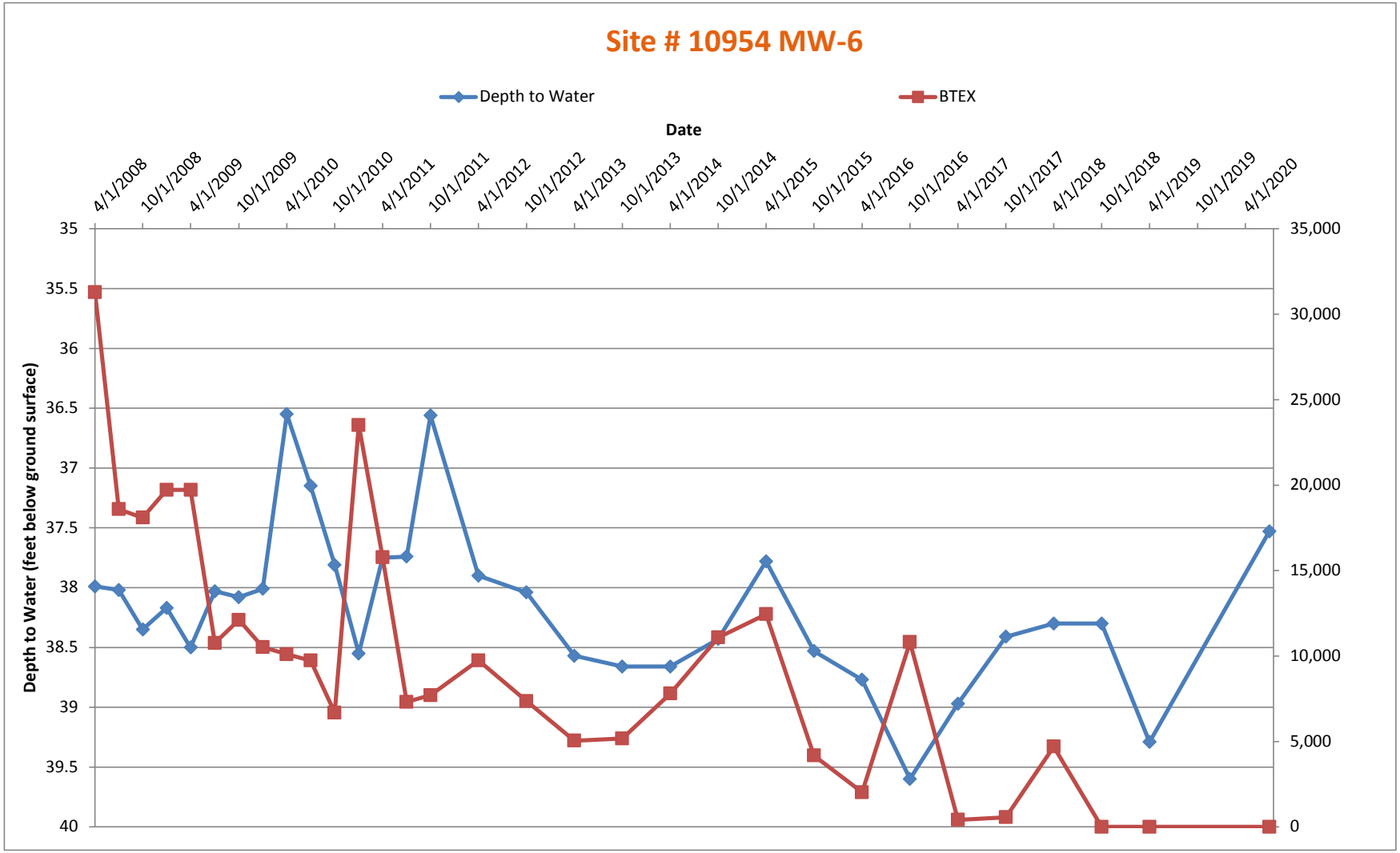
MW-1 Hydrograph
February 6, 2006 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



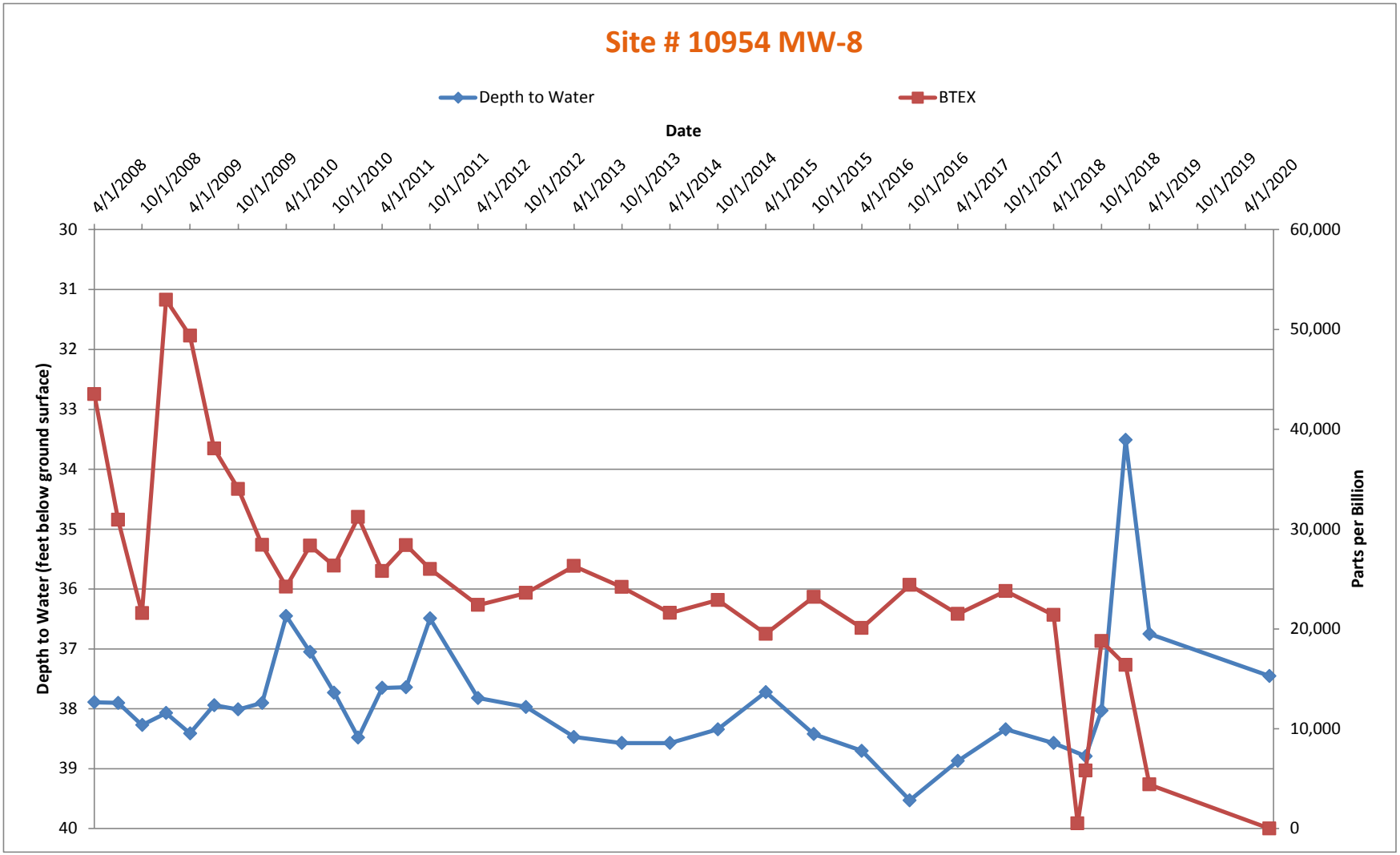
MW-6 Hydrograph
February 6, 2006 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



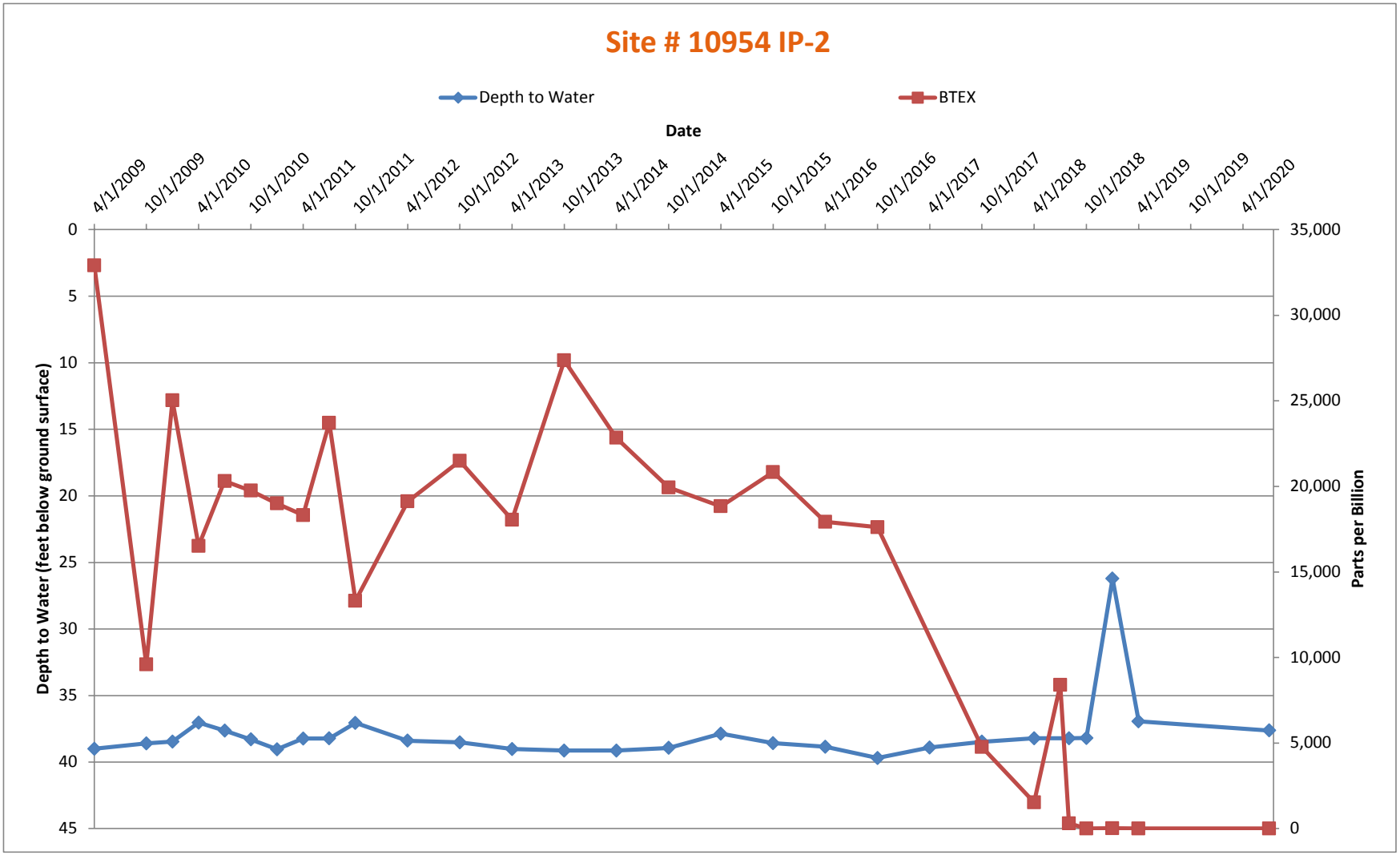
MW-8 Hydrograph
April 30, 2008 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



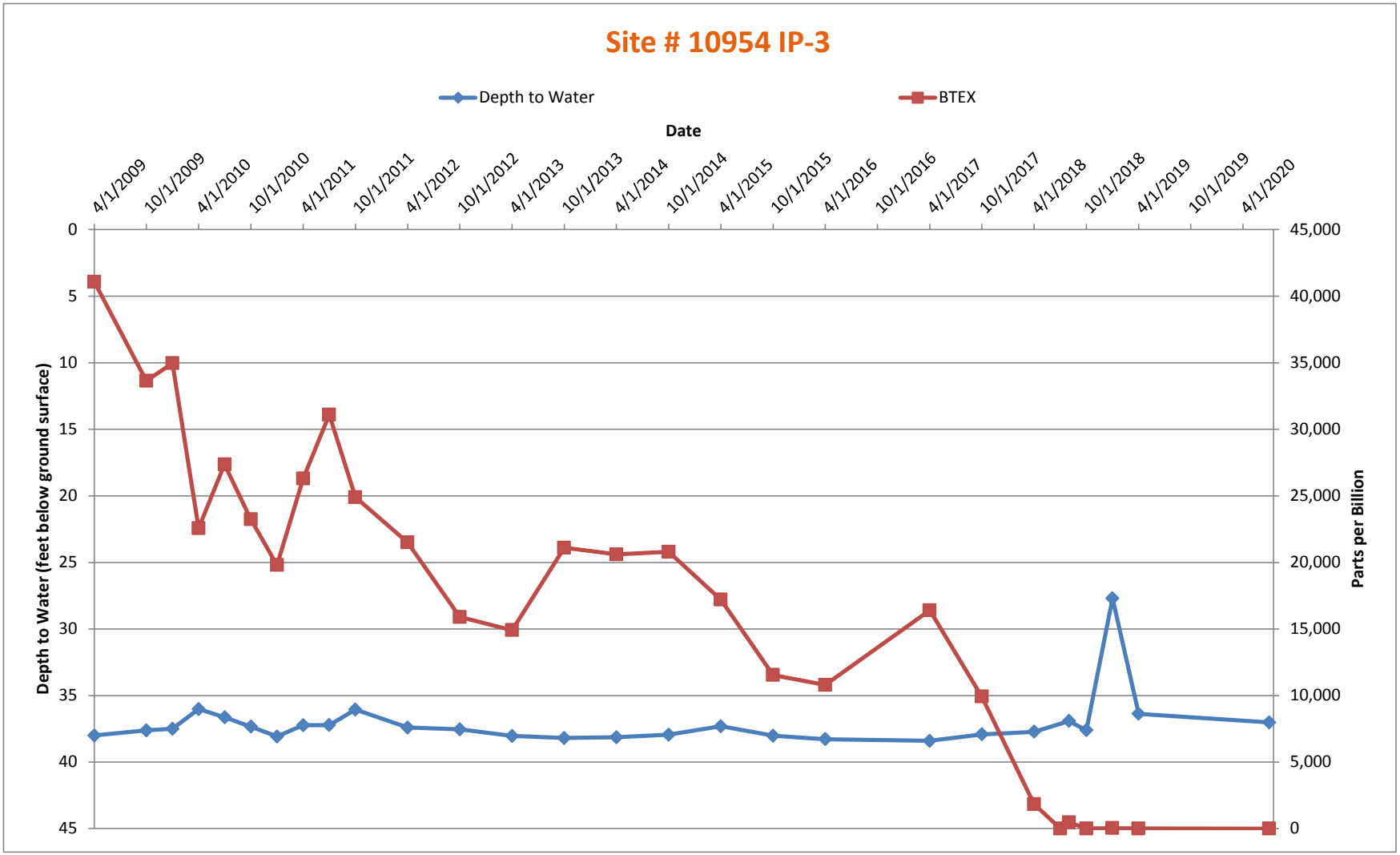
IP-2 Hydrograph
April 8, 2009 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



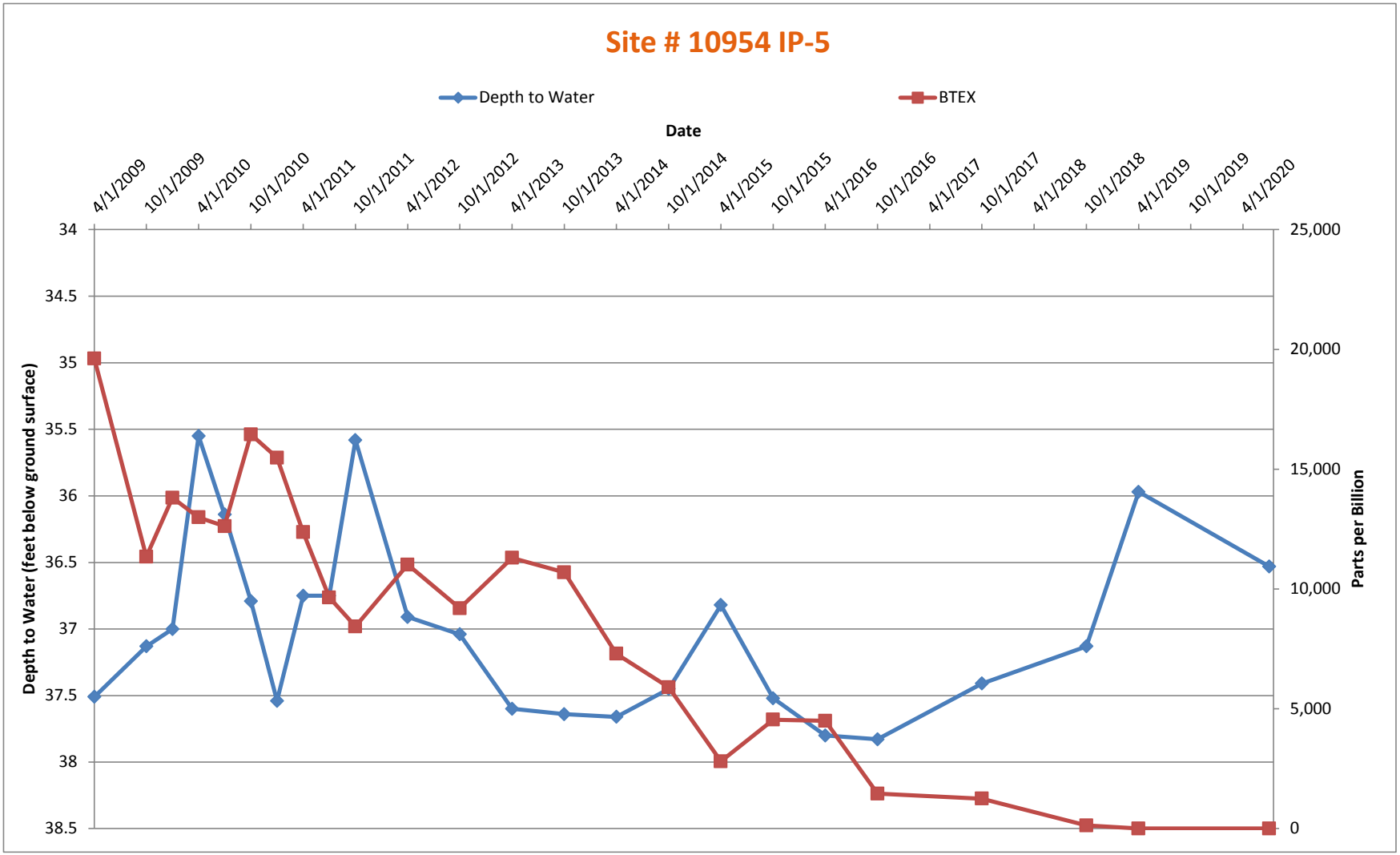
IP-3 Hydrograph
April 8, 2009 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



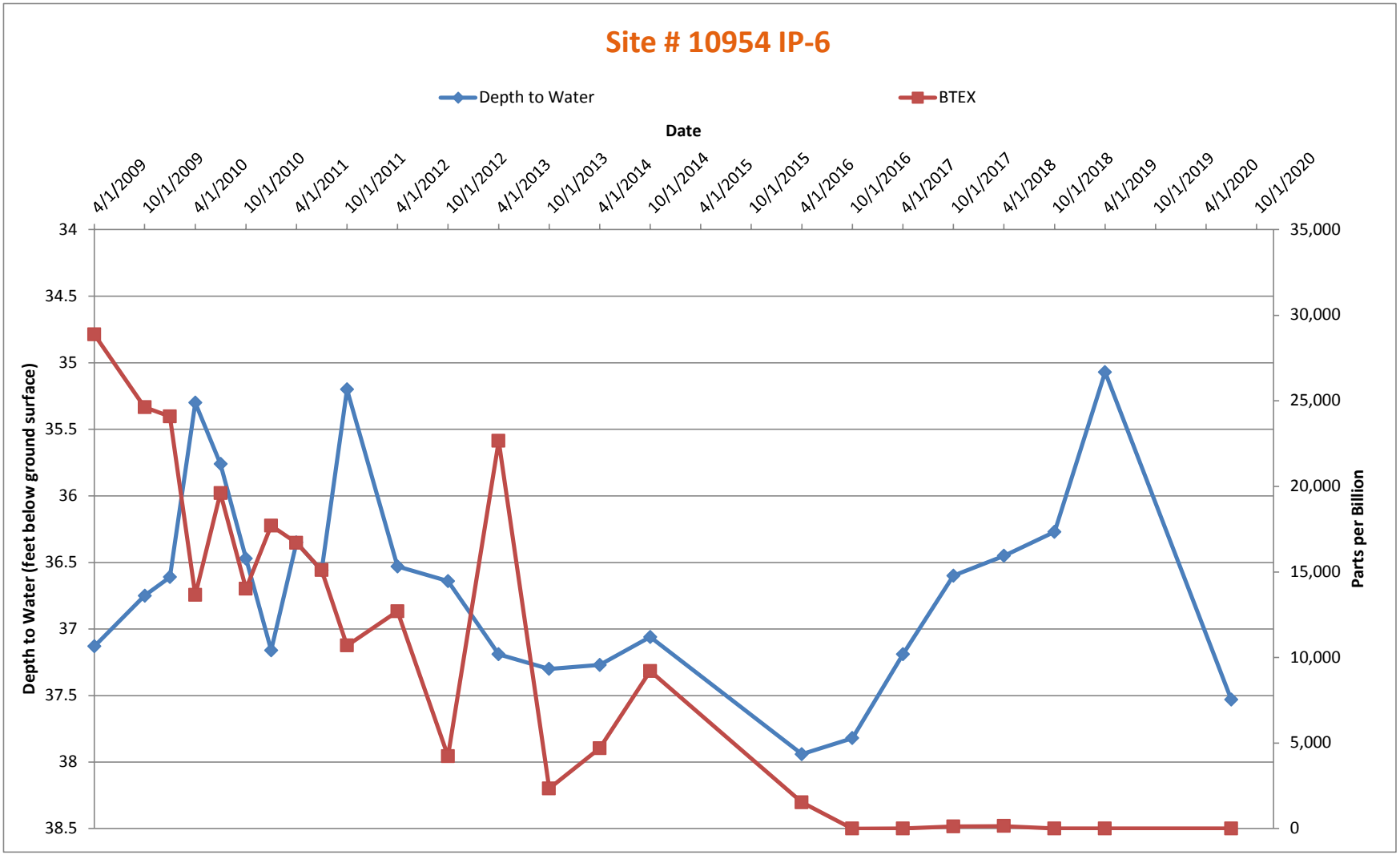
IP-5 Hydrograph
April 8, 2009 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



IP-6 Hydrograph
April 8, 2009 through July 28, 2020

Mobil Branded Service Station
Former Mobil #10954 (17-HMB)
138-50 Hillside Avenue
Jamaica, New York



Arcadis of New York, Inc.

One HSBC Plaza

100 Chestnut Street

Suite 1020

Rochester

New York 14604

Tel 585 662 4044

Fax 585 385 4198

www.arcadis.com