REMEDIAL ENGINEERING, P.C.
ENVIRONMENTAL ENGINEERS

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ISLANDIA, NEW YORK 11749
TEL: 631-232-2600
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September 26, 2016

Ms. Ioanna Munteanu-Ramnic
Division of Environmental Remediation
New York State Department of Environmental Conservation
47-40 21st Street
Long Island City, New York 11101

Re: August 25, 2016 Quarterly Groundwater Sampling Event and Request to Terminate Groundwater Monitoring Program
Kent & Wythe Owners LLC
Site Number C224159
149 Kent Avenue, Brooklyn, New York

Dear Ms. Munteanu-Ramnic:

In accordance with the Site Management Plan (SMP) for the Site dated August 2015, Roux Associates, Inc. conducted quarterly groundwater sampling at 149 Kent Avenue in Brooklyn, NY (Site) of behalf of Kent & Wythe Owners LLC. Sampling was conducted on August 25, 2016 by Roux Associates, Inc. (Roux Associates). Groundwater wells OW-3, OW-4, and OW-5 are shown on Figure 1. On July 15, 2016, wells OW-4 and OW-5 were inspected by a Roux field representative and were found to have been damaged from onsite construction activities rendering them unusable. Roux Associates informed the New York State Department of Environmental Conservation (NYSDEC) about the damaged wells and about the intent to install replacement wells for OW-4 and OW-5 in an email dated August 2, 2016. On August 18, 2016 wells OW-4R and OW-5R were successfully overdrilled and developed in the same locations and with the same construction as the original wells. On August 25, 2016, wells OW-4 and OW-5 were successfully sampled using a low-flow, bladder pump technique and analyzed by Alpha Analytical for volatile organic compounds (VOCs).

OW-3 was not sampled due to the well being destroyed by onsite construction activities, as discussed in the quarterly groundwater sampling event report sent to NYSDEC dated June 3, 2016 and the conference call with NYSDEC on July 13, 2016. VOC concentrations were non-detect or below NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGVs) each time the well was sampled in the past seven post-treatment rounds between March 2014 and July 2015. During the July 13, 2016 conference call, NYSDEC indicated that no additional groundwater monitoring was required at OW-3.

As described in the SMP for the Site dated August 2015, the constituents of concern for the Site in groundwater are chlorinated VOCs (CVOCs), primarily tetrachloroethylene (PCE). The remedy for the Site included removal of source material soil and installation of a permeable reactive barrier (PRB), comprised of zero valent iron (ZVI) injections completed in April 2014 and supplemental injections of ZVI and emulsified vegetable oil in April 2015.

At well OW-4, the highest concentration of PCE in groundwater was detected from samples collected on May 14, 2014 (38,000 µg/L). The PCE concentration at OW-4 dropped to 110 µg/L on August 25, 2016 (greater than 99% reduction). The TCE groundwater concentration at well OW-4 was 11 µg/L corresponding to a greater than 95% reduction as compared to the highest detected concentration. The 1,2-DCE groundwater concentration at well OW-4 was 7.7 µg/L corresponding to a greater than 98% reduction as compared to the highest detected concentration.

At well OW-5, the highest concentration of PCE in groundwater was detected from samples collected on March 6, 2015 (5,200 µg/L). The PCE groundwater concentration at well OW-5 was 340 µg/L on August 25, 2016 (greater than 93% reduction). The TCE and 1,2-DCE groundwater concentrations at well OW-5 on August 25, 2016 were 23 and 89 µg/L, respectively (both greater than a 94% reduction from the highest concentrations detected). As mentioned above, OW-3 had been destroyed previously and was not sampled.

Results of the baseline and post-remediation groundwater samples for VOCs (detections only) are compared to NYSDEC AWQSGVs and presented in Table 1. Additionally, the sampling analytical report from Alpha Laboratories (including the chain-of-custody) and field sampling sheets are included as Attachments 1 and 2, respectively. Results for this groundwater sampling event saw that reductions of over 93% for PCE, TCE, and 1,2-DCE from their highest concentrations observed were achieved. These results support that VOC concentrations have consistently been reduced at the Site by over 90% for the constituents of concern discussed herein throughout all 2016 groundwater sampling events.

As outlined in the SMP for the Site and the NYSDEC e-mail dated July 15, 2016, Roux Associates, Inc. requests, on behalf of Kent & Wythe Owners LLC, that the groundwater monitoring program referenced herein be terminated.

Please do not hesitate to contact Noelle Clarke, P.E. or David Bligh, P.E. at 631-232-2600, if you have questions or require additional information.

Sincerely,

ROUX ASSOCIATES, INC.

David T. Bligh, P.E.
Senior Engineer

REMEDIAL ENGINEERING, P.C.

Noelle M. Clarke, P.E.
Principal Engineer

Attachments

Table 1. Summary of Baseline and Post-Remediation Volatile Organic Compounds in Groundwater, 149 Kent Avenue, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	OW-3 1/23/2014	OW-3 3/10/2014	OW-3 DUP 3/10/2014	OW-3 4/14/2014	OW-3 7/23/2014	OW-3 10/30/2014	OW-3 1/29/2015	OW-3 4/30/2015
1,1-Dichloroethene	5		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
1,2-Dichloroethene (total)	5		NA	NA	NA	NA	NA	2.5 U	2.5 U	2.5 U
1,2-Dichloropropane	1		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dioxane	--		RV	RV	RV	RV	RV	RV	RV	RV
2-Butanone (MEK)	50		5 UJV	5 U	5 U	5 UJV	5 U	5 U	5 U	5 U
Acetone	50		5 UJV	5 UJV	5 UJV	5 UJV	2.9 J	1.8 J	5 UJV	5 U
Benzene	1		0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Chloroform	7		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
cis-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Tetrachloroethene	5		2.9	0.5 U	0.5 U	0.5 U	0.64	0.76	2.4	1.5
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Trichloroethene	5		0.63	0.5 U	0.5 U	0.5 U	0.5 U	0.58	0.5 U	0.5 U
Trichlorofluoromethane	5		2.5 U	4.7	4.7	3.5	2.5 U	2.5 UJV	2.5 U	2.5 U
Vinyl chloride	2		1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes (total)	5		NA	NA	NA	NA	2.5 U	2.5 U	2.5 U	2.5 U

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AWQSGVs - Ambient Water-Quality Standards and Guidance Values

µg/L -Micrograms per liter

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Bold data indicates that parameter was detected above the NYSDEC AWQSGVs

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Table 1. Summary of Baseline and Post-Remediation Volatile Organic Compounds in Groundwater, 149 Kent Avenue, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	OW-3 7/6/2015	OW-4 4/14/2014	OW-4 DUP 4/14/2014	OW-4 5/14/2014	OW-4 DUP 5/14/2014	OW-4 7/23/2014	OW-4 10/30/2014
1,1-Dichloroethene	5		0.5 U	250 UD	250 UD	200 UD	200 UD	120 UD	25 UD
1,2-Dichloroethene (total)	5		2.5 U	NA	NA	**340 JD**	**350 JD**	NA	**670 D**
1,2-Dichloropropane	1		1 U	500 UD	500 UD	400 UD	400 UD	250 UD	50 UD
1,4-Dioxane	--		RV	RVD	RVD	RVD	RVD	RVD	RVD
2-Butanone (MEK)	50		5 U	2500 UJVD	2500 UJVD	2000 UD	2000 UD	1200 UD	250 UD
Acetone	50		2.4 J	2500 UJVD	2500 UJVD	2000 UVD	2000 UVD	1200 UD	250 UD
Benzene	1		0.28 J	250 UD	250 UD	200 UD	**260 D**	120 UD	25 UD
Chloroform	7		2.5 U	1200 UD	1200 UD	1000 UD	1000 UD	620 UD	120 UD
cis-1,2-Dichloroethene	5		2.5 U	1200 UD	1200 UD	**340 JD**	**350 JD**	**240 JD**	**670 D**
Tetrachloroethene	5		1.9	**23000 D**	**31000 D**	**37000 D**	**38000 D**	**32000 D**	**2000 D**
trans-1,2-Dichloroethene	5		2.5 U	1200 UD	1200 UD	1000 UD	1000 UD	620 UD	120 UD
Trichloroethene	5		0.4 J	250 UD	250 UD	**170 JD**	**160 JD**	**130 D**	**99 D**
Trichlorofluoromethane	5		2.5 U	1200 UD	1200 UD	1000 UD	1000 UD	620 UD	120 UJVD
Vinyl chloride	2		1 U	500 UD	500 UD	400 UJVD	400 UJVD	250 UD	50 UD
Xylenes (total)	5		0.8 J	NA	NA	1000 UD	1000 UD	620 UD	120 UD

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Table 1. Summary of Baseline and Post-Remediation Volatile Organic Compounds in Groundwater, 149 Kent Avenue, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** **Sample Date:**	OW-4 1/29/2015	OW-4 3/6/2015	OW-4 DUP 3/6/2015	OW-4 4/30/2015	OW-4 DUP 4/30/2015	OW-4 7/6/2015	OW-4 DUP 7/6/2015	OW-4 11/3/2015
1,1-Dichloroethene	5		12 UD	10 UD	10 UD	50 UD	100 UD	1.4 JD	2.5 UD	0.50 U
1,2-Dichloroethene (total)	5		**590 D**	**650 D**	**650 D**	**360 D**	**460 JD**	**670 D**	**710 D**	**16**
1,2-Dichloropropane	1		25 UD	20 UD	20 UD	100 UD	200 UD	**9.7 D**	5 UD	1.0 U
1,4-Dioxane	--		RVD	RVD	RVD	RVD	RVD	RVD	RVD	250 U
2-Butanone (MEK)	50		120 UD	100 UD	100 UD	500 UD	1000 UD	20 JD	20 JD	4.5 J
Acetone	50		120 UJVD	100 UVD	100 UD	500 UD	1000 UD	17 JD	25 UD	24
Benzene	1		12 UD	10 UD	10 UD	50 UD	100 UD	2.5 UD	2.5 UD	0.50 U
Chloroform	7		62 UD	50 UD	50 UD	250 UD	500 UD	12 UD	12 UD	2.3 J
cis-1,2-Dichloroethene	5		**590 D**	**650 D**	**650 D**	**360 D**	**460 JD**	**670 D**	**710 D**	**16**
Tetrachloroethene	5		**1600 D**	**1300 D**	**1500 D**	**10000 D**	**12000 D**	**190 D**	**240 D**	**32**
trans-1,2-Dichloroethene	5		62 UD	50 UD	50 UD	250 UD	500 UD	12 UD	12 UD	2.5 U
Trichloroethene	5		**130 D**	**150 D**	**130 D**	**200 D**	**250 D**	**150 D**	**36 D**	**7.3**
Trichlorofluoromethane	5		62 UD	50 UD	50 UD	250 UD	500 UD	12 UD	12 UD	2.5 U
Vinyl chloride	2		**16 JD**	**10 JD**	**6.7 JD**	100 UD	200 UD	1.6 JD	1.9 JD	0.47 J
Xylenes (total)	5		62 UD	50 UD	50 UD	250 UD	500 UD	12 UD	12 UD	2.5 U

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Table 1. Summary of Baseline and Post-Remediation Volatile Organic Compounds in Groundwater, 149 Kent Avenue, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	OW-4 2/2/2016	OW-4 DUP 2/2/2016	OW-4 4/29/2016	OW-4 DUP 4/29/2016	OW-4R 8/25/2016	OW-4R DUP 8/25/2016	OW-5 4/14/2014	OW-5 5/14/2014
1,1-Dichloroethene	5		0.16 J	0.17 J	0.17 J	0.16 J	1.2 U	1.0 U	2 UD	2.5 UD
1,2-Dichloroethene (total)	5		NA	NA	**95 J**	**71 J**	NA	NA	NA	12 UD
1,2-Dichloropropane	1		**1.3**	**1.3**	1.0 U	1.0 U	2.5 U	2.0 U	4 UD	**9.9 D**
1,4-Dioxane	--		NA	NA	250 U	250 U	NA	NA	RVD	RVD
2-Butanone (MEK)	50		5.8	6.4	5.0 U	5.0 U	12 U	10 U	20 UJVD	25 UD
Acetone	50		8	8.9	3.2 J	1.7 J	16	14	20 UJVD	25 UVD
Benzene	1		0.43 J	0.43 J	0.32 J	0.22 J	1.2 U	0.32 J	2 UD	2.5 UD
Chloroform	7		1.2 J	1.3 J	1.4 J	1.1 J	1.8 J	1.7 J	10 UD	3.8 JD
cis-1,2-Dichloroethene	5		**66**	**67**	**94**	**70**	**7.7**	**7.5**	10 UD	12 UD
Tetrachloroethene	5		**62**	**68**	**56**	**54**	**110**	**100**	**200 D**	**670 D**
trans-1,2-Dichloroethene	5		2.5 U	2.5 U	1.0 J	0.94 J	3.4 J	3.3 J	10 UD	12 UD
Trichloroethene	5		**16**	**17**	**15**	**14**	**11**	**10**	**7.2 D**	**7.7 D**
Trichlorofluoromethane	5		2.5 U	2.5 U	2.5 U	2.5 U	6.2 U	5.0 U	10 UD	12 UD
Vinyl chloride	2		2	2	**3.8**	**3.2**	0.26 J	0.26 J	4 UD	5 UJVD
Xylenes (total)	5		2.5 U	2.5 U	2.5 U	2.5 U	6.2 U	5.0 U	NA	12 UD

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Table 1. Summary of Baseline and Post-Remediation Volatile Organic Compounds in Groundwater, 149 Kent Avenue, Brooklyn, New York

Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	OW-5 7/23/2014	OW-5 DUP 7/23/2014	OW-5 10/30/2014	OW-5 DUP 10/30/2014	OW-5 1/29/2015	OW-5 DUP 1/29/2015	OW-5 3/6/2015
1,1-Dichloroethene	5		10 UD	10 UD	20 UD	20 UD	25 UD	50 UD	25 UD
1,2-Dichloroethene (total)	5		NA	NA	**120 D**	**120 D**	**350 D**	**400 D**	**370 D**
1,2-Dichloropropane	1		**80 D**	**89 D**	40 UD	40 UD	50 UD	100 UD	50 UD
1,4-Dioxane	--		RVD	RVD	RVD	RVD	RVD	RVD	RVD
2-Butanone (MEK)	50		100 UD	100 UJVD	200 UD	200 UD	250 UD	500 UD	250 UD
Acetone	50		24 JD	100 UJVD	200 UD	200 UD	250 UJVD	500 UJVD	250 UD
Benzene	1		10 UD	10 UD	20 UD	20 UD	25 UD	50 UD	25 UD
Chloroform	7		50 UD	50 UD	100 UD	100 UD	120 UD	250 UD	120 UD
cis-1,2-Dichloroethene	5		**310 D**	**290 D**	**120 D**	**120 D**	**350 D**	**400 D**	**370 D**
Tetrachloroethene	5		**1600 D**	**1600 D**	**1300 D**	**1500 D**	**3100 D**	**4200 D**	**5200 D**
trans-1,2-Dichloroethene	5		50 UD	50 UD	100 UD	100 UD	120 UD	250 UD	120 UD
Trichloroethene	5		**120 D**	**110 D**	**52 D**	**56 D**	**110 D**	**140 D**	**140 D**
Trichlorofluoromethane	5		50 UD	50 UD	100 UD	100 UD	120 UD	250 UD	120 UD
Vinyl chloride	2		20 UD	20 UD	40 UD	40 UD	50 UD	100 UD	50 UD
Xylenes (total)	5		50 UD	50 UD	100 UD	100 UD	120 UD	250 UD	120 UD

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Parameter (Concentrations in µg/L)	NYSDEC AWQSGVs (µg/L)	**Sample Designation:** / **Sample Date:**	OW-5 4/30/2015	OW-5 7/6/2015	OW-5 11/3/2015	OW-5 DUP 11/3/2015	OW-5 2/2/2016	OW-5 4/29/2016	OW-5R 8/25/2016
1,1-Dichloroethene	5		10 UD	2.5 UD	1.5 J	10 U	3.1 J	4.7 J	5.0 U
1,2-Dichloroethene (total)	5		**1700 D**	**470 JD**	**830 J**	**1000 J**	NA	**2500 J**	NA
1,2-Dichloropropane	1		20 UD	5 UD	10 U	20 U	10 U	25 U	10 U
1,4-Dioxane	--		RVD	RVD	2500 U	5000 U	NA	6200 U	NA
2-Butanone (MEK)	50		**120 D**	**280 D**	**1000**	**700**	50 U	120 U	50 U
Acetone	50		100 UD	**190 D**	**240**	**240**	50 U	120 U	50 U
Benzene	1		10 UD	2.5 UD	5.0 U	10 U	5.0 U	12 U	5.0 U
Chloroform	7		50 UD	12 UD	25 U	50 U	25 U	62 U	25 U
cis-1,2-Dichloroethene	5		**1700 D**	**470 D**	**810**	**980**	**1400**	**2500**	**89**
Tetrachloroethene	5		**420 D**	**200 D**	**720**	**1100**	**380**	**14**	**340**
trans-1,2-Dichloroethene	5		50 UD	4.2 JD	16 J	18 J	**16 J**	**26 J**	25 U
Trichloroethene	5		**24 D**	**16 D**	**370**	**450**	**150**	12 U	**23**
Trichlorofluoromethane	5		50 UD	12 UD	25 U	50 U	25 U	62 U	25 U
Vinyl chloride	2		**77 D**	**98 D**	**210**	**250**	**270**	**830**	2.0 J
Xylenes (total)	5		50 UD	12 UD	25 U	50 U	25 U	62 U	25 U

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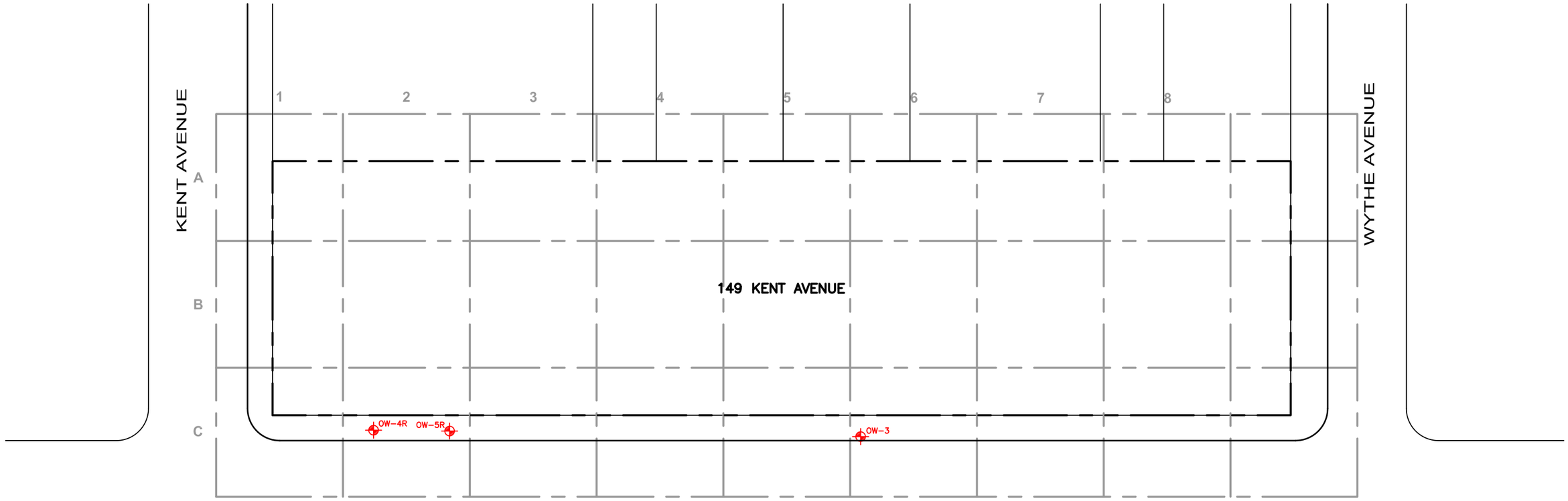

LEGEND

- PROPERTY LINE
- OW-3 — LOCATION AND DESIGNATION OF OFFSITE MONITORING WELL
- ALPHA–NUMERIC GRID LINE

NOTES

1. BASEMAP PREPARED BASED ON SURVEY DATA COLLECTED BY ANGLE OF ATTACK LAND SURVEYORS, LLC ON JUNE 1, 2013. MONITORING WELLS SURVEYED BY MONTROSE SURVEYING CO., LLP.
2. APLHA–NUMERIC GRID CELLS ARE SPACED EVERY 50 FEET.

40' 0 40'

Title:

SITE PLAN

149 KENT AVENUE
BROOKLYN, NEW YORK

Prepared For:

KENT & WYTHE OWNERS LLC

Remedial REMEDIAL ENGINEERING, P.C. *ENVIRONMENTAL ENGINEERS*	Compiled by: D.T.B.	Date: 21SEP16	FIGURE 1
	Prepared by: G.M.	Scale: AS SHOWN	
	Project Mgr: J.D.	Project: 2158.0001Y004	
	File: 2158.0001Y227.01.DWG		

V:\CAD\PROJECTS\2158Y\0001Y\227\2158.0001Y227.01.DWG

Sampling Analytical Report
Alpha Analytical

ANALYTICAL REPORT

Lab Number:	L1626649
Client:	Roux Associates, Inc. 209 Shafter Street Islandia, NY 11749-5074
ATTN:	David Bligh
Phone:	(631) 232-2600
Project Name:	149 KENT AVENUE
Project Number:	2158.0001Y004
Report Date:	08/31/16

Certifications & Approvals: MA (M-MA086), NY (11148), CT (PH-0574), NH (2003), NJ NELAP (MA935), RI (LAO00065), ME (MA00086), PA (68-03671), VA (460195), MD (348), IL (200077), NC (666), TX (T104704476), DOD (L2217), USDA (Permit #P-330-11-00240).

Eight Walkup Drive, Westborough, MA 01581-1019
508-898-9220 (Fax) 508-898-9193 800-624-9220 - www.alphalab.com

Project Name: 149 KENT AVENUE
Project Number: 2158.0001Y004

Lab Number: L1626649
Report Date: 08/31/16

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L1626649-01	OW-4	WATER	149 KENT AVENUE, BROOKLYN, NY	08/25/16 10:50	08/25/16
L1626649-02	OW-5	WATER	149 KENT AVENUE, BROOKLYN, NY	08/25/16 09:45	08/25/16
L1626649-03	DUP082516	WATER	149 KENT AVENUE, BROOKLYN, NY	08/25/16 10:55	08/25/16
L1626649-04	FIELD BLANK	WATER	149 KENT AVENUE, BROOKLYN, NY	08/25/16 11:00	08/25/16
L1626649-05	TRIP BLANK	WATER	149 KENT AVENUE, BROOKLYN, NY	08/25/16 00:00	08/25/16
L1626649-06	WC-DRUM	SOIL	149 KENT AVENUE, BROOKLYN, NY	08/25/16 11:10	08/25/16

Project Name: 149 KENT AVENUE
Project Number: 2158.0001Y004

Lab Number: L1626649
Report Date: 08/31/16

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY
For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.

Project Name:	149 KENT AVENUE	**Lab Number:**	L1626649
Project Number:	2158.0001Y004	**Report Date:**	08/31/16

Case Narrative (continued)

Report Submission

All non-detect (ND) or estimated concentrations (J-qualified) have been quantitated to the limit noted in the MDL column.

Metals

L1626649-06: The sample has elevated detection limits for all elements, with the exception of mercury, due to the dilution required by matrix interferences encountered during analysis.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: Lisa Westerlind

Title: Technical Director/Representative Date: 08/31/16

ORGANICS

VOLATILES

Project Name: 149 KENT AVENUE
Project Number: 2158.0001Y004
Lab Number: L1626649
Report Date: 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-01 D
Client ID: OW-4
Sample Location: 149 KENT AVENUE, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/29/16 20:49
Analyst: PD

Date Collected: 08/25/16 10:50
Date Received: 08/25/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethane	ND		ug/l	6.2	1.8	2.5
Chloroform	1.8	J	ug/l	6.2	1.8	2.5
Carbon tetrachloride	ND		ug/l	1.2	0.34	2.5
1,2-Dichloropropane	ND		ug/l	2.5	0.33	2.5
Dibromochloromethane	ND		ug/l	1.2	0.37	2.5
1,1,2-Trichloroethane	ND		ug/l	3.8	1.2	2.5
Tetrachloroethene	110		ug/l	1.2	0.45	2.5
Chlorobenzene	ND		ug/l	6.2	1.8	2.5
Trichlorofluoromethane	ND		ug/l	6.2	1.8	2.5
1,2-Dichloroethane	ND		ug/l	1.2	0.33	2.5
1,1,1-Trichloroethane	ND		ug/l	6.2	1.8	2.5
Bromodichloromethane	ND		ug/l	1.2	0.48	2.5
trans-1,3-Dichloropropene	ND		ug/l	1.2	0.41	2.5
cis-1,3-Dichloropropene	ND		ug/l	1.2	0.36	2.5
1,1-Dichloropropene	ND		ug/l	6.2	1.8	2.5
Bromoform	ND		ug/l	5.0	1.6	2.5
1,1,2,2-Tetrachloroethane	ND		ug/l	1.2	0.36	2.5
Benzene	ND		ug/l	1.2	0.40	2.5
Toluene	ND		ug/l	6.2	1.8	2.5
Ethylbenzene	ND		ug/l	6.2	1.8	2.5
Chloromethane	ND		ug/l	6.2	1.8	2.5
Bromomethane	ND		ug/l	6.2	1.8	2.5
Vinyl chloride	0.26	J	ug/l	2.5	0.17	2.5
Chloroethane	ND		ug/l	6.2	1.8	2.5
1,1-Dichloroethene	ND		ug/l	1.2	0.36	2.5
trans-1,2-Dichloroethene	3.4	J	ug/l	6.2	1.8	2.5
Trichloroethene	11		ug/l	1.2	0.44	2.5
1,2-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-01 D Date Collected: 08/25/16 10:50

Client ID: OW-4 Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	6.2	1.8	2.5
Methyl tert butyl ether	ND		ug/l	6.2	1.8	2.5
p/m-Xylene	ND		ug/l	6.2	1.8	2.5
o-Xylene	ND		ug/l	6.2	1.8	2.5
Xylenes, Total	ND		ug/l	6.2	1.8	2.5
cis-1,2-Dichloroethene	7.7		ug/l	6.2	1.8	2.5
Dibromomethane	ND		ug/l	12	2.5	2.5
1,2,3-Trichloropropane	ND		ug/l	6.2	1.8	2.5
Styrene	ND		ug/l	6.2	1.8	2.5
Dichlorodifluoromethane	ND		ug/l	12	2.5	2.5
Acetone	16		ug/l	12	3.6	2.5
2-Butanone	ND		ug/l	12	4.8	2.5
4-Methyl-2-pentanone	ND		ug/l	12	2.5	2.5
Bromochloromethane	ND		ug/l	6.2	1.8	2.5
2,2-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,2-Dibromoethane	ND		ug/l	5.0	1.6	2.5
1,3-Dichloropropane	ND		ug/l	6.2	1.8	2.5
1,1,1,2-Tetrachloroethane	ND		ug/l	6.2	1.8	2.5
Bromobenzene	ND		ug/l	6.2	1.8	2.5
n-Butylbenzene	ND		ug/l	6.2	1.8	2.5
sec-Butylbenzene	ND		ug/l	6.2	1.8	2.5
tert-Butylbenzene	ND		ug/l	6.2	1.8	2.5
o-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
p-Chlorotoluene	ND		ug/l	6.2	1.8	2.5
1,2-Dibromo-3-chloropropane	ND		ug/l	6.2	1.8	2.5
Hexachlorobutadiene	ND		ug/l	6.2	1.8	2.5
Isopropylbenzene	ND		ug/l	6.2	1.8	2.5
p-Isopropyltoluene	ND		ug/l	6.2	1.8	2.5
Naphthalene	ND		ug/l	6.2	1.8	2.5
n-Propylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,3-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trichlorobenzene	ND		ug/l	6.2	1.8	2.5
1,3,5-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5
1,2,4-Trimethylbenzene	ND		ug/l	6.2	1.8	2.5

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-01 D Date Collected: 08/25/16 10:50

Client ID: OW-4 Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	96		70-130

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-02 D
Client ID: OW-5
Sample Location: 149 KENT AVENUE, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/29/16 21:23
Analyst: PD

Date Collected: 08/25/16 09:45
Date Received: 08/25/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	25	7.0	10
1,1-Dichloroethane	ND		ug/l	25	7.0	10
Chloroform	ND		ug/l	25	7.0	10
Carbon tetrachloride	ND		ug/l	5.0	1.3	10
1,2-Dichloropropane	ND		ug/l	10	1.3	10
Dibromochloromethane	ND		ug/l	5.0	1.5	10
1,1,2-Trichloroethane	ND		ug/l	15	5.0	10
Tetrachloroethene	340		ug/l	5.0	1.8	10
Chlorobenzene	ND		ug/l	25	7.0	10
Trichlorofluoromethane	ND		ug/l	25	7.0	10
1,2-Dichloroethane	ND		ug/l	5.0	1.3	10
1,1,1-Trichloroethane	ND		ug/l	25	7.0	10
Bromodichloromethane	ND		ug/l	5.0	1.9	10
trans-1,3-Dichloropropene	ND		ug/l	5.0	1.6	10
cis-1,3-Dichloropropene	ND		ug/l	5.0	1.4	10
1,1-Dichloropropene	ND		ug/l	25	7.0	10
Bromoform	ND		ug/l	20	6.5	10
1,1,2,2-Tetrachloroethane	ND		ug/l	5.0	1.4	10
Benzene	ND		ug/l	5.0	1.6	10
Toluene	7.7	J	ug/l	25	7.0	10
Ethylbenzene	ND		ug/l	25	7.0	10
Chloromethane	ND		ug/l	25	7.0	10
Bromomethane	ND		ug/l	25	7.0	10
Vinyl chloride	2.0	J	ug/l	10	0.70	10
Chloroethane	ND		ug/l	25	7.0	10
1,1-Dichloroethene	ND		ug/l	5.0	1.4	10
trans-1,2-Dichloroethene	ND		ug/l	25	7.0	10
Trichloroethene	23		ug/l	5.0	1.8	10
1,2-Dichlorobenzene	ND		ug/l	25	7.0	10
1,3-Dichlorobenzene	ND		ug/l	25	7.0	10

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-02 D Date Collected: 08/25/16 09:45

Client ID: OW-5 Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	25	7.0	10
Methyl tert butyl ether	ND		ug/l	25	7.0	10
p/m-Xylene	ND		ug/l	25	7.0	10
o-Xylene	ND		ug/l	25	7.0	10
Xylenes, Total	ND		ug/l	25	7.0	10
cis-1,2-Dichloroethene	89		ug/l	25	7.0	10
Dibromomethane	ND		ug/l	50	10.	10
1,2,3-Trichloropropane	ND		ug/l	25	7.0	10
Styrene	ND		ug/l	25	7.0	10
Dichlorodifluoromethane	ND		ug/l	50	10.	10
Acetone	ND		ug/l	50	15.	10
2-Butanone	ND		ug/l	50	19.	10
4-Methyl-2-pentanone	ND		ug/l	50	10.	10
Bromochloromethane	ND		ug/l	25	7.0	10
2,2-Dichloropropane	ND		ug/l	25	7.0	10
1,2-Dibromoethane	ND		ug/l	20	6.5	10
1,3-Dichloropropane	ND		ug/l	25	7.0	10
1,1,1,2-Tetrachloroethane	ND		ug/l	25	7.0	10
Bromobenzene	ND		ug/l	25	7.0	10
n-Butylbenzene	ND		ug/l	25	7.0	10
sec-Butylbenzene	ND		ug/l	25	7.0	10
tert-Butylbenzene	ND		ug/l	25	7.0	10
o-Chlorotoluene	ND		ug/l	25	7.0	10
p-Chlorotoluene	ND		ug/l	25	7.0	10
1,2-Dibromo-3-chloropropane	ND		ug/l	25	7.0	10
Hexachlorobutadiene	ND		ug/l	25	7.0	10
Isopropylbenzene	ND		ug/l	25	7.0	10
p-Isopropyltoluene	ND		ug/l	25	7.0	10
Naphthalene	ND		ug/l	25	7.0	10
n-Propylbenzene	ND		ug/l	25	7.0	10
1,2,3-Trichlorobenzene	ND		ug/l	25	7.0	10
1,2,4-Trichlorobenzene	ND		ug/l	25	7.0	10
1,3,5-Trimethylbenzene	ND		ug/l	25	7.0	10
1,2,4-Trimethylbenzene	ND		ug/l	25	7.0	10

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-02 D Date Collected: 08/25/16 09:45

Client ID: OW-5 Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	102		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: 149 KENT AVENUE
Project Number: 2158.0001Y004
Lab Number: L1626649
Report Date: 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-03 D
Client ID: DUP082516
Sample Location: 149 KENT AVENUE, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/29/16 21:58
Analyst: PD

Date Collected: 08/25/16 10:55
Date Received: 08/25/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	5.0	1.4	2
1,1-Dichloroethane	ND		ug/l	5.0	1.4	2
Chloroform	1.7	J	ug/l	5.0	1.4	2
Carbon tetrachloride	ND		ug/l	1.0	0.27	2
1,2-Dichloropropane	ND		ug/l	2.0	0.27	2
Dibromochloromethane	ND		ug/l	1.0	0.30	2
1,1,2-Trichloroethane	ND		ug/l	3.0	1.0	2
Tetrachloroethene	100		ug/l	1.0	0.36	2
Chlorobenzene	ND		ug/l	5.0	1.4	2
Trichlorofluoromethane	ND		ug/l	5.0	1.4	2
1,2-Dichloroethane	ND		ug/l	1.0	0.26	2
1,1,1-Trichloroethane	ND		ug/l	5.0	1.4	2
Bromodichloromethane	ND		ug/l	1.0	0.38	2
trans-1,3-Dichloropropene	ND		ug/l	1.0	0.33	2
cis-1,3-Dichloropropene	ND		ug/l	1.0	0.29	2
1,1-Dichloropropene	ND		ug/l	5.0	1.4	2
Bromoform	ND		ug/l	4.0	1.3	2
1,1,2,2-Tetrachloroethane	ND		ug/l	1.0	0.29	2
Benzene	0.32	J	ug/l	1.0	0.32	2
Toluene	ND		ug/l	5.0	1.4	2
Ethylbenzene	ND		ug/l	5.0	1.4	2
Chloromethane	ND		ug/l	5.0	1.4	2
Bromomethane	ND		ug/l	5.0	1.4	2
Vinyl chloride	0.26	J	ug/l	2.0	0.14	2
Chloroethane	ND		ug/l	5.0	1.4	2
1,1-Dichloroethene	ND		ug/l	1.0	0.28	2
trans-1,2-Dichloroethene	3.3	J	ug/l	5.0	1.4	2
Trichloroethene	10		ug/l	1.0	0.35	2
1,2-Dichlorobenzene	ND		ug/l	5.0	1.4	2
1,3-Dichlorobenzene	ND		ug/l	5.0	1.4	2

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-03 D Date Collected: 08/25/16 10:55

Client ID: DUP082516 Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	5.0	1.4	2
Methyl tert butyl ether	ND		ug/l	5.0	1.4	2
p/m-Xylene	ND		ug/l	5.0	1.4	2
o-Xylene	ND		ug/l	5.0	1.4	2
Xylenes, Total	ND		ug/l	5.0	1.4	2
cis-1,2-Dichloroethene	7.5		ug/l	5.0	1.4	2
Dibromomethane	ND		ug/l	10	2.0	2
1,2,3-Trichloropropane	ND		ug/l	5.0	1.4	2
Styrene	ND		ug/l	5.0	1.4	2
Dichlorodifluoromethane	ND		ug/l	10	2.0	2
Acetone	14		ug/l	10	2.9	2
2-Butanone	ND		ug/l	10	3.9	2
4-Methyl-2-pentanone	ND		ug/l	10	2.0	2
Bromochloromethane	ND		ug/l	5.0	1.4	2
2,2-Dichloropropane	ND		ug/l	5.0	1.4	2
1,2-Dibromoethane	ND		ug/l	4.0	1.3	2
1,3-Dichloropropane	ND		ug/l	5.0	1.4	2
1,1,1,2-Tetrachloroethane	ND		ug/l	5.0	1.4	2
Bromobenzene	ND		ug/l	5.0	1.4	2
n-Butylbenzene	ND		ug/l	5.0	1.4	2
sec-Butylbenzene	ND		ug/l	5.0	1.4	2
tert-Butylbenzene	ND		ug/l	5.0	1.4	2
o-Chlorotoluene	ND		ug/l	5.0	1.4	2
p-Chlorotoluene	ND		ug/l	5.0	1.4	2
1,2-Dibromo-3-chloropropane	ND		ug/l	5.0	1.4	2
Hexachlorobutadiene	ND		ug/l	5.0	1.4	2
Isopropylbenzene	ND		ug/l	5.0	1.4	2
p-Isopropyltoluene	ND		ug/l	5.0	1.4	2
Naphthalene	ND		ug/l	5.0	1.4	2
n-Propylbenzene	ND		ug/l	5.0	1.4	2
1,2,3-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trichlorobenzene	ND		ug/l	5.0	1.4	2
1,3,5-Trimethylbenzene	ND		ug/l	5.0	1.4	2
1,2,4-Trimethylbenzene	ND		ug/l	5.0	1.4	2

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-03 D Date Collected: 08/25/16 10:55

Client ID: DUP082516 Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	105		70-130
Dibromofluoromethane	96		70-130

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-04
Client ID: FIELD BLANK
Sample Location: 149 KENT AVENUE, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/29/16 19:41
Analyst: PD

Date Collected: 08/25/16 11:00
Date Received: 08/25/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-04 Date Collected: 08/25/16 11:00

Client ID: FIELD BLANK Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-04 Date Collected: 08/25/16 11:00

Client ID: FIELD BLANK Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	101		70-130
Toluene-d8	100		70-130
4-Bromofluorobenzene	103		70-130
Dibromofluoromethane	96		70-130

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-05
Client ID: TRIP BLANK
Sample Location: 149 KENT AVENUE, BROOKLYN, NY
Matrix: Water
Analytical Method: 1,8260C
Analytical Date: 08/29/16 20:15
Analyst: PD

Date Collected: 08/25/16 00:00
Date Received: 08/25/16
Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
Methylene chloride	ND		ug/l	2.5	0.70	1
1,1-Dichloroethane	ND		ug/l	2.5	0.70	1
Chloroform	ND		ug/l	2.5	0.70	1
Carbon tetrachloride	ND		ug/l	0.50	0.13	1
1,2-Dichloropropane	ND		ug/l	1.0	0.13	1
Dibromochloromethane	ND		ug/l	0.50	0.15	1
1,1,2-Trichloroethane	ND		ug/l	1.5	0.50	1
Tetrachloroethene	ND		ug/l	0.50	0.18	1
Chlorobenzene	ND		ug/l	2.5	0.70	1
Trichlorofluoromethane	ND		ug/l	2.5	0.70	1
1,2-Dichloroethane	ND		ug/l	0.50	0.13	1
1,1,1-Trichloroethane	ND		ug/l	2.5	0.70	1
Bromodichloromethane	ND		ug/l	0.50	0.19	1
trans-1,3-Dichloropropene	ND		ug/l	0.50	0.16	1
cis-1,3-Dichloropropene	ND		ug/l	0.50	0.14	1
1,1-Dichloropropene	ND		ug/l	2.5	0.70	1
Bromoform	ND		ug/l	2.0	0.65	1
1,1,2,2-Tetrachloroethane	ND		ug/l	0.50	0.14	1
Benzene	ND		ug/l	0.50	0.16	1
Toluene	ND		ug/l	2.5	0.70	1
Ethylbenzene	ND		ug/l	2.5	0.70	1
Chloromethane	ND		ug/l	2.5	0.70	1
Bromomethane	ND		ug/l	2.5	0.70	1
Vinyl chloride	ND		ug/l	1.0	0.07	1
Chloroethane	ND		ug/l	2.5	0.70	1
1,1-Dichloroethene	ND		ug/l	0.50	0.14	1
trans-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Trichloroethene	ND		ug/l	0.50	0.18	1
1,2-Dichlorobenzene	ND		ug/l	2.5	0.70	1
1,3-Dichlorobenzene	ND		ug/l	2.5	0.70	1

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-05 Date Collected: 08/25/16 00:00

Client ID: TRIP BLANK Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor
Volatile Organics by GC/MS - Westborough Lab						
1,4-Dichlorobenzene	ND		ug/l	2.5	0.70	1
Methyl tert butyl ether	ND		ug/l	2.5	0.70	1
p/m-Xylene	ND		ug/l	2.5	0.70	1
o-Xylene	ND		ug/l	2.5	0.70	1
Xylenes, Total	ND		ug/l	2.5	0.70	1
cis-1,2-Dichloroethene	ND		ug/l	2.5	0.70	1
Dibromomethane	ND		ug/l	5.0	1.0	1
1,2,3-Trichloropropane	ND		ug/l	2.5	0.70	1
Styrene	ND		ug/l	2.5	0.70	1
Dichlorodifluoromethane	ND		ug/l	5.0	1.0	1
Acetone	ND		ug/l	5.0	1.5	1
2-Butanone	ND		ug/l	5.0	1.9	1
4-Methyl-2-pentanone	ND		ug/l	5.0	1.0	1
Bromochloromethane	ND		ug/l	2.5	0.70	1
2,2-Dichloropropane	ND		ug/l	2.5	0.70	1
1,2-Dibromoethane	ND		ug/l	2.0	0.65	1
1,3-Dichloropropane	ND		ug/l	2.5	0.70	1
1,1,1,2-Tetrachloroethane	ND		ug/l	2.5	0.70	1
Bromobenzene	ND		ug/l	2.5	0.70	1
n-Butylbenzene	ND		ug/l	2.5	0.70	1
sec-Butylbenzene	ND		ug/l	2.5	0.70	1
tert-Butylbenzene	ND		ug/l	2.5	0.70	1
o-Chlorotoluene	ND		ug/l	2.5	0.70	1
p-Chlorotoluene	ND		ug/l	2.5	0.70	1
1,2-Dibromo-3-chloropropane	ND		ug/l	2.5	0.70	1
Hexachlorobutadiene	ND		ug/l	2.5	0.70	1
Isopropylbenzene	ND		ug/l	2.5	0.70	1
p-Isopropyltoluene	ND		ug/l	2.5	0.70	1
Naphthalene	ND		ug/l	2.5	0.70	1
n-Propylbenzene	ND		ug/l	2.5	0.70	1
1,2,3-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trichlorobenzene	ND		ug/l	2.5	0.70	1
1,3,5-Trimethylbenzene	ND		ug/l	2.5	0.70	1
1,2,4-Trimethylbenzene	ND		ug/l	2.5	0.70	1

Project Name: 149 KENT AVENUE **Lab Number:** L1626649

Project Number: 2158.0001Y004 **Report Date:** 08/31/16

SAMPLE RESULTS

Lab ID: L1626649-05 Date Collected: 08/25/16 00:00

Client ID: TRIP BLANK Date Received: 08/25/16

Sample Location: 149 KENT AVENUE, BROOKLYN, NY Field Prep: Not Specified

Parameter	Result	Qualifier	Units	RL	MDL	Dilution Factor

Volatile Organics by GC/MS - Westborough Lab

Surrogate	% Recovery	Qualifier	Acceptance Criteria
1,2-Dichloroethane-d4	100		70-130
Toluene-d8	99		70-130
4-Bromofluorobenzene	104		70-130
Dibromofluoromethane	95		70-130

Project Name: 149 KENT AVENUE
Project Number: 2158.0001Y004

Lab Number: L1626649
Report Date: 08/31/16

Sample Receipt and Container Information

Were project specific reporting limits specified? YES

Reagent H2O Preserved Vials Frozen on: 26-AUG-16 16:33

Cooler Information Custody Seal

Cooler	
A	Absent

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1626649-01A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-01B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-01C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-02A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-02B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-02C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-03A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-03B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-03C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-04A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-04B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-04C	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-05A	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-05B	Vial HCl preserved	A	N/A	4.1	Y	Absent	NYTCL-8260(14)
L1626649-06A	5 gram Encore Sampler	A	N/A	4.1	Y	Absent	NYTCL-8260HLW(2)
L1626649-06B	5 gram Encore Sampler	A	N/A	4.1	Y	Absent	NYTCL-8260HLW(2)
L1626649-06C	5 gram Encore Sampler	A	N/A	4.1	Y	Absent	NYTCL-8260HLW(2)
L1626649-06D	Plastic 2oz unpreserved for TS	A	N/A	4.1	Y	Absent	TS(7)
L1626649-06E	Metals Only - Glass 60mL/2oz unp	A	N/A	4.1	Y	Absent	BE-TI(180),AS-TI(180),BA-TI(180),AG-TI(180),AL-TI(180),CR-TI(180),NI-TI(180),TL-TI(180),CU-TI(180),PB-TI(180),SB-TI(180),SE-TI(180),ZN-TI(180),CO-TI(180),V-TI(180),FE-TI(180),HG-T(28),MG-TI(180),MN-TI(180),CA-TI(180),CD-TI(180),K-TI(180),NA-TI(180)
L1626649-06F	Vial Large Septa unpreserved (4o	A	N/A	4.1	Y	Absent	TCLP-EXT-ZHE(14)

*Values in parentheses indicate holding time in days

Project Name: 149 KENT AVENUE
Project Number: 2158.0001Y004

Lab Number: L1626649
Report Date: 08/31/16

Container Information

Container ID	Container Type	Cooler	pH	Temp deg C	Pres	Seal	Analysis(*)
L1626649-06G	Glass 250ml/8oz unpreserved	A	N/A	4.1	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),PH-9045(1),NYTCL-8082(14),REACTCN(14)
L1626649-06H	Glass 500ml/16oz unpreserved	A	N/A	4.1	Y	Absent	IGNIT-1030(14),NYTCL-8270(14),REACTS(14),PH-9045(1),NYTCL-8082(14),REACTCN(14)
L1626649-06Q	Plastic 120ml HNO3 preserved Fil	A	<2	4.1	Y	Absent	CD-CI(180),AS-CI(180),BA-CI(180),HG-C(28),PB-CI(180),CR-CI(180),SE-CI(180),AG-CI(180)
L1626649-06R	Amber 1000ml unpreserved Extract	A	N/A	4.1	Y	Absent	TCLP-8270(14),HERB-TCLP*(14),PEST-TCLP*(14)
L1626649-06R9	Tumble Vessel	A	N/A	4.1	Y	Absent	-
L1626649-06S	Vial unpreserved split	A	N/A	4.1	Y	Absent	TCLP-VOA(14)
L1626649-06T	Vial unpreserved split	A	N/A	4.1	Y	Absent	TCLP-VOA(14)
L1626649-06X	Vial MeOH preserved split	A	N/A	4.1	Y	Absent	NYTCL-8260HLW(14)
L1626649-06Y	Vial Water preserved split	A	N/A	4.1	Y	Absent	NYTCL-8260HLW(14)
L1626649-06Z	Vial Water preserved split	A	N/A	4.1	Y	Absent	NYTCL-8260HLW(14)

*Values in parentheses indicate holding time in days

Project Name:	149 KENT AVENUE	**Lab Number:**	L1626649
Project Number:	2158.0001Y004	**Report Date:**	08/31/16

GLOSSARY

Acronyms

EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Footnotes

1	- The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Data Qualifiers

A	- Spectra identified as "Aldol Condensation Product".
B	- The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the

Report Format: DU Report with 'J' Qualifiers

Project Name:	149 KENT AVENUE	**Lab Number:**	L1626649
Project Number:	2158.0001Y004	**Report Date:**	08/31/16

Data Qualifiers

reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).

C - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.

D - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.

E - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.

G - The concentration may be biased high due to matrix interferences (i.e, co-elution) with non-target compound(s). The result should be considered estimated.

H - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.

I - The lower value for the two columns has been reported due to obvious interference.

M - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.

NJ - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where the identification is based on a mass spectral library search.

P - The RPD between the results for the two columns exceeds the method-specified criteria.

Q - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)

R - Analytical results are from sample re-analysis.

RE - Analytical results are from sample re-extraction.

S - Analytical results are from modified screening analysis.

J - Estimated value. The Target analyte concentration is below the quantitation limit (RL), but above the Method Detection Limit (MDL) or Estimated Detection Limit (EDL) for SPME-related analyses. This represents an estimated concentration for Tentatively Identified Compounds (TICs).

ND - Not detected at the method detection limit (MDL) for the sample, or estimated detection limit (EDL) for SPME-related analyses.

Report Format: DU Report with 'J' Qualifiers

Project Name:	149 KENT AVENUE	**Lab Number:**	L1626649
Project Number:	2158.0001Y004	**Report Date:**	08/31/16

REFERENCES

1 Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IV, 2007.

121 Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WEF. Standard Methods Online.

LIMITATION OF LIABILITIES

Alpha Analytical performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical be held liable for any incidental, consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding time and splitting of samples in the field.

Certification Information

The following analytes are not included in our Primary NELAP Scope of Accreditation:

Westborough Facility
EPA 624: m/p-xylene, o-xylene
EPA 8260C: NPW: 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene, Azobenzene; SCM: Iodomethane (methyl iodide), Methyl methacrylate, 1,2,4,5-Tetramethylbenzene; 4-Ethyltoluene.
EPA 8270D: NPW: Dimethylnaphthalene,1,4-Diphenylhydrazine; SCM: Dimethylnaphthalene,1,4-Diphenylhydrazine.
EPA 300: DW: Bromide
EPA 6860: NPW and SCM: Perchlorate
EPA 9010: NPW and SCM: Amenable Cyanide Distillation
EPA 9012B: NPW: Total Cyanide
EPA 9050A: NPW: Specific Conductance
SM3500: NPW: Ferrous Iron
SM4500: NPW: Amenable Cyanide, Dissolved Oxygen; SCM: Total Phosphorus, TKN, NO2, NO3.
SM5310C: DW: Dissolved Organic Carbon

Mansfield Facility
SM 2540D: TSS
EPA 3005A NPW
EPA 8082A: NPW: PCB: 1, 5, 31, 87,101, 110, 141, 151, 153, 180, 183, 187.
EPA TO-15: Halothane, 2,4,4-Trimethyl-2-pentene, 2,4,4-Trimethyl-1-pentene, Thiophene, 2-Methylthiophene, 3-Methylthiophene, 2-Ethylthiophene, 1,2,3-Trimethylbenzene, Indan, Indene, 1,2,4,5-Tetramethylbenzene, Benzothiophene, 1-Methylnaphthalene.
Biological Tissue Matrix: ***EPA 3050B***

The following analytes are included in our Massachusetts DEP Scope of Accreditation

Westborough Facility:

Drinking Water
EPA 300.0: Nitrate-N, Fluoride, Sulfate; **EPA 353.2**: Nitrate-N, Nitrite-N; **SM4500NO3-F**: Nitrate-N, Nitrite-N; **SM4500F-C, SM4500CN-CE, EPA 180.1, SM2130B, SM4500Cl-D, SM2320B, SM2540C, SM4500H-B**
EPA 332: Perchlorate; **EPA 524.2:** THMs and VOCs; **EPA 504.1:** EDB, DBCP.
Microbiology: **SM9215B; SM9223-P/A, SM9223B-Colilert-QT,SM9222D**.

Non-Potable Water
SM4500H,B, EPA 120.1, SM2510B, SM2540C, SM2320B, SM4500CL-E, SM4500F-BC, SM4500NH3-BH, **EPA 350.1**: Ammonia-N, **LACHAT 10-107-06-1-B**: Ammonia-N, **SM4500NO3-F, EPA 353.2**: Nitrate-N**, EPA 351.1, SM4500P-E, SM4500P-B, E, SM4500SO4-E, SM5220D, EPA 410.4, SM5210B, SM5310C, SM4500CL-D, EPA 1664, EPA 420.1, SM4500-CN-CE, SM2540D.**
EPA 624: Volatile Halocarbons & Aromatics,
EPA 608: Chlordane, Toxaphene, Aldrin, alpha-BHC, beta-BHC, gamma-BHC, delta-BHC, Dieldrin, DDD, DDE, DDT, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin, Endrin Aldehyde, Heptachlor, Heptachlor Epoxide, PCBs
EPA 625: SVOC (Acid/Base/Neutral Extractables), **EPA 600/4-81-045**: PCB-Oil.
Microbiology: **SM9223B-Colilert-QT; Enterolert-QT, SM9222D-MF**.

Mansfield Facility:

Drinking Water
EPA 200.7: Ba, Be, Cd, Cr, Cu, Ni, Na, Ca. **EPA 200.8:** Sb, As, Ba, Be, Cd, Cr, Cu, Pb, Ni, Se, TL. **EPA 245.1** Hg.

Non-Potable Water
EPA 200.7: Al, Sb, As, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Sr, TL, Ti, V, Zn.
EPA 200.8: Al, Sb, As, Be, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, TL, Zn.
EPA 245.1 Hg.
SM2340B

For a complete listing of analytes and methods, please contact your Alpha Project Manager.

ALPHA ANALYTICAL

Westborough, MA 01581
8 Walkup Dr.
TEL: 508-898-9220
FAX: 508-898-9193

Mansfield, MA 02048
320 Forbes Blvd
TEL: 508-822-9300
FAX: 508-822-3288

NEW YORK CHAIN OF CUSTODY

Service Centers
Mahwah, NJ 07430: 35 Whitney Rd, Suite 5
Albany, NY 12205: 14 Walker Way
Tonawanda, NY 14150: 275 Cooper Ave, Suite 105

Page 1 of 1

Date Rec'd in Lab: 8/26/16

ALPHA Job #: L626649

Client Information

Client: Roux Associates, Inc.
Address: 209 Shafter Street
Islandia, New York, 11749
Phone: 631-232-2600
Fax:
Email: dbligh@rouxinc.com

Project Information

Project Name: 149 Kent Avenue
Project Location: 149 Kent Avenue, Brooklyn, NY
Project #: 2158.0001y004
(Use Project name as Project #) ☐
Project Manager: David Bligh
ALPHAQuote #:

Turn-Around Time

Standard ☑ Due Date:
Rush (only if pre approved) ☐ # of Days:

Deliverables

☐ ASP-A ☑ ASP-B
☐ EQuIS (1 File) ☐ EQuIS (4 File)
☐ Other

Regulatory Requirement

☐ NY TOGS ☑ NY Part 375
☑ AWQ Standards ☐ NY CP-51
☐ NY Restricted Use ☐ Other
☐ NY Unrestricted Use
☐ NYC Sewer Discharge

Billing Information

☑ Same as Client Info
PO #

Disposal Site Information

Please identify below location of applicable disposal facilities.
Disposal Facility:
☐ NJ ☐ NY
☐ Other:

These samples have been previously analyzed by Alpha ☐

Other project specific requirements/comments:
please 'CC' Lcurnutte@rouxinc.com

Please specify Metals or TAL.

ANALYSIS

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	VOC 8260C	SVOC	Total Hg, Total Metals	pH, Ig, REACTS, PCB	TCLP VOC	TCLP Complete List	TS		Total Bottles
26649-01	OW-4	8/25/16	1050	water	YC	X								3
02	OW-5		0945	water	YC	X								3
03	DUP082516		1055	water	YC	X								3
04	FIELD BLANK		1100	water	YC	X								3
05	TRIP BLANK			water	JB	X								2
06	WC-DRUM	8/25/16	1110	soil	YC	X	X	X	X	X	X	X		8

Sample Filtration
☐ Done
☐ Lab to do
Preservation
☐ Lab to do
(Please Specify below)

Sample Specific Comments

Container Type	V/G	A	A	A	A	V	P		
Preservative	B/A	A	A	A	A	A	A		

Preservative Code:
A = None
B = HCl
C = HNO_3
D = H_2SO_4
E = NaOH
F = MeOH
G = $NaHSO_4$
H = $Na_2S_2O_3$
K/E = Zn Ac/NaOH
O = Other

Container Code
P = Plastic
A = Amber Glass
V = Vial
G = Glass
B = Bacteria Cup
C = Cube
O = Other
E = Encore
D = BOD Bottle

Westboro: Certification No: MA935
Mansfield: Certification No: MA015

Relinquished By:	Date/Time	Received By:	Date/Time
L.Curnutte	8/25/16 11:35		8/25/16 1135
	8/25/16 1800	Tom Tobin	8-25-16 1800
Tom Tobin	8-26-16 0300		8/26/16 0300

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. BY EXECUTING THIS COC, THE CLIENT HAS READ AND AGREES TO BE BOUND BY ALPHA'S TERMS & CONDITIONS.

Form No: 01-25 (rev. 30-Sept-2013)

Field Sampling Sheets

Well Sampling Data Form

Client: L & M Development **Project Number:** 2158.0001Y004

Site Location: 149 Kent Ave, Brooklyn, NY

Well No: OW-4 Weather: 75°F, PC, SW@5-10

Date: 8/25/16 Purge Water Disposal: Drum

Sampled By: LC Well Diameter / Type: 2" PVC

Depth to Water(ft): 10.45

Depth to Product (ft): Volume of Water to Remove (gal):

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 1010 Purge Rate: ~100 mL/min

End Purging: 1055 Volume of Water Removed (gal): ~2 gal

Method of Purge: Bladder Method of Sampling: low-flow

Physical Appearance/ Comments: Mostly clear w/ slight brown murkiness throughout. Slightly milky color at times. No odor or sheen.

Samples Collected: (analyses / no. bottles) OW-4, DUP082516 @1050 @1055

Time: Laboratory : Alpha

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O_2 mg/L (w/in 10%)
1015	10.55	~100	-82	0.609	323	9.51	17.71	1.13
1020	10.45	~100	-113	0.606	243	9.66	16.99	1.01
1025	10.45		-122	0.602	265	9.64	16.59	0.98
1030	" "		-128	0.598	188	9.64	16.73	0.95
1035	" "		-135	0.593	192	9.66	16.86	0.91
1040	" "		-139	0.588	218	9.68	16.96	0.90
1045	" "		-142	0.584	170	9.70	16.93	0.89
End 1050	" "	↓	-144	0.582	163	9.71	16.95	0.88

Well Sampling Data Form

Client: L & M Development **Project Number:** 2158.0001Y004

Site Location: 149 Kent Ave, Brooklyn, NY

Well No: OW-5 Weather: 75°F, PC, SW@5-10

Date: 8/25/16 Purge Water Disposal: Drum

Sampled By: LC Well Diameter / Type: 2" PVC

Depth to Water(ft): 10.30

Depth to Product (ft): N/A Volume of Water to Remove (gal):

well diameter:	1 in	2 in	4 in	6 in	8 in
gallons per foot:	0.041	0.163	0.653	1.469	2.611

Start Purging: 0845 Purge Rate: ~100 mL/min

End Purging: 0945 Volume of Water Removed (gal): ~2.0 gal

Method of Purge: Bladder Method of Sampling: low-flow

Physical Appearance/ Comments: Brown, very murky @ begin. After 5 min, clear w/ brown tint. No odor or sheen.

Samples Collected: (analyses / no. bottles) OW-5 @ 0945 (VOC's only)

Time: 0945 Laboratory : Alpha

Field Measurements:

Time	DTW ft	Flow Rate ml/min	ORP mV (+/- 10 mV)	Conductivity mS/m - S/m (w/in 3%)	Turbidity NTU (w/in %10)	pH SU (+/- 0.1)	Temperature C° - F° (w/in 3%)	Dissolved O_2 mg/L (w/in 10%)
0850	10.40	~100	60	0.719	>1000	6.73	18.27	1.52
0855	10.33		-25	0.712	668	7.00	18.24	1.47
0900	" "		-60	0.703	480	7.14	18.22	1.23
0905	" "		-78	0.694	492	7.24	18.11	1.15
0910	" "		-90	0.677	393	7.29	17.80	1.16
0915	" "		-95	0.669	375	7.32	17.61	1.08
0920	" "		-99	0.660	309	7.34	17.44	1.05
0925	" "		-101	0.652	259	7.35	17.45	1.03
0930	" "		-103	0.646	231	7.37	17.40	1.01
0935	" "		-106	0.642	193	7.40	17.42	0.99
End 0940	" "		-108	0.640	185	7.41	17.45	0.98