Pelton, Jason M (DEC)

From: Wu, Ernie <Ernie.Wu@tetratech.com>
Sent: Wednesday, August 21, 2019 1:52 PM
To: Pelton, Jason M (DEC); Karpinski, Steven (HEALTH); Lovejoy, John (NASSAU); Stein, Carol; Garbarini.Doug@epa.gov; rlenz@oysterbay-ny.gov
Cc: Murray, Brian S CIV NAVFAC MIDLANT, IPTNORTH; Fly, Lora B CIV NAVFAC MIDLANT, IPTNE (lora.fly@navy.mil); Brayack, David; Francisco, Ben
Subject: Q2, 2019 (June) Validated Data, OU2 Navy groundwater sampling
Attachments: Form1s_ RE WElls_Samples Jun6_11_2019.pdf; Revised_Form1s_Cluster5-4_5-5 _Cluster6All_collected_Jun_5-11_2019.pdf

All:

As per discussions between the Navy and NYSDEC, NYSDEC requested that the Navy submit the validated data as soon as the information is available.

Attached are the Form 1 validated data for Second Quarter 2019 from the following wells:

- Outpost well cluster BPOW 5 (BPOW 5-4 and BPOW 5-5)
- Outpost well cluster BPOW 6 (BPOW 6-1, 6-2, 6-3, 6-4, 6-5 and 6-6)
- RE Monitoring Wells (RE115D1, RE115D2, RE127D1, RE127D2, RE130D1, RE130D2, RE133D1 and RE133D2)

Form 1 data includes both VOCs and 1,4-dioxane results.
Samples were collected between 06/05/2019 to 06/11/2019.

Form 1 data associated with the OU2 2Q 2019 routine sampling event (from rest of the BPOW wells, RE wells and TT102 wells) will continue to be provided over the next several weeks as the data are validated.

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Report of Analysis

Client Sample ID:	BPOW6-1		
Lab Sample ID:	JC89535-1	**Date Sampled:**	06/05/19
Matrix:	AQ - Ground Water	**Date Received:**	06/06/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119843.D	1	06/10/19 21:17	BK	n/a	n/a	V1B5786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-1		
Lab Sample ID:	JC89535-1	**Date Sampled:**	06/05/19
Matrix:	AQ - Ground Water	**Date Received:**	06/06/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	83%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
1066-40-6	Silanol, trimethyl-	9.51	1.4	ug/l	JN	R
	Total TIC, Volatile		1.4	ug/l	J	R

(a) EPA 524.2 is not a certified method for non-potable water samples.
(b) Associated CCV outside of control limits high, sample was ND.

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Report of Analysis

Client Sample ID:	BPOW6-2		
Lab Sample ID:	JC89535-2	**Date Sampled:**	06/05/19
Matrix:	AQ - Ground Water	**Date Received:**	06/06/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119844.D	1	06/10/19 21:49	BK	n/a	n/a	V1B5786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-2		
Lab Sample ID:	JC89535-2	**Date Sampled:**	06/05/19
Matrix:	AQ - Ground Water	**Date Received:**	06/06/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	85%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) EPA 524.2 is not a certified method for non-potable water samples.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB060519RM1		
Lab Sample ID:	JC89535-3	**Date Sampled:**	06/05/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119845.D	1	06/10/19 22:20	BK	n/a	n/a	V1B5786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB060519RM1		
Lab Sample ID:	JC89535-3	**Date Sampled:**	06/05/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/06/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	85%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.69	1.2	ug/l	J
1066-40-6	Silanol, trimethyl-	9.51	4.9	ug/l	JN
	Total TIC, Volatile		4.9	ug/l	J N

(a) EPA 524.2 is not a certified method for non-potable water samples.
(b) Associated CCV outside of control limits high, sample was ND.

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89535X**	**Date Collected:**	**06/05/2019 12:15**	**Matrix:**	**WATER**
Lab Sample ID:	**481613001**	**Date Received:**	**06/12/2019 09:00**		
Client Sample:	**1X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW6-1**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1888372**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**06/26/2019 22:35**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**06/26/2019 07:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s062619.B\s6f2618.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	0.301	ug/L	0.100	0.100	0.200

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89535X**	**Date Collected:**	**06/05/2019 12:10**	**Matrix:**	**WATER**
Lab Sample ID:	**481613002**	**Date Received:**	**06/12/2019 09:00**		
Client Sample:	**2X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW6-2**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1891553**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**07/01/2019 16:55**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**07/01/2019 08:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s070119.B\s6g0111.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	0.257	ug/L	0.100	0.100	0.200

Report of Analysis

Client Sample ID:	BPOW6-3		
Lab Sample ID:	JC89526-1	**Date Sampled:**	06/06/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119840.D	1	06/10/19 19:44	BK	n/a	n/a	V1B5786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-3		
Lab Sample ID:	JC89526-1	**Date Sampled:**	06/06/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	84%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) EPA 524.2 is not a certified method for non-potable water samples.
(b) Associated CCV outside of control limits high, sample was ND.

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-4		
Lab Sample ID:	JC89526-2	**Date Sampled:**	06/06/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119841.D	1	06/10/19 20:15	BK	n/a	n/a	V1B5786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-4		
Lab Sample ID:	JC89526-2	**Date Sampled:**	06/06/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	85%		70-130%
460-00-4	4-Bromofluorobenzene	88%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) EPA 524.2 is not a certified method for non-potable water samples.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB060619ALH1		
Lab Sample ID:	JC89526-3	**Date Sampled:**	06/06/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119842.D	1	06/10/19 20:46	BK	n/a	n/a	V1B5786
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone [b]	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB060619ALH1		
Lab Sample ID:	JC89526-3	**Date Sampled:**	06/06/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	84%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.69	1.2	ug/l	J
1066-40-6	Silanol, trimethyl-	9.51	1.5	ug/l	JN
	Total TIC, Volatile		1.5	ug/l	J N

(a) EPA 524.2 is not a certified method for non-potable water samples.
(b) Associated CCV outside of control limits high, sample was ND.

ND = Not detected MDL = Method Detection Limit
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N = Indicates presumptive evidence of a compound

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89526X**	**Date Collected:**	**06/06/2019 11:25**	**Matrix:**	**WATER**
Lab Sample ID:	**481611001**	**Date Received:**	**06/12/2019 09:00**		
Client Sample:	**1X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW6-3**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1891553**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**07/01/2019 16:29**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**07/01/2019 08:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s070119.B\s6g0110.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	0.221	ug/L	0.100	0.100	0.200

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89526X**	**Date Collected:**	**06/06/2019 11:20**	**Matrix:**	**WATER**
Lab Sample ID:	**481611002**	**Date Received:**	**06/12/2019 09:00**		
Client Sample:	**2X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW6-4**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1888372**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**06/26/2019 21:21**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**06/26/2019 07:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s062619.B\s6f2615.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	0.393	ug/L	0.100	0.100	0.200

Report of Analysis

Client Sample ID:	TB060719ALH1		
Lab Sample ID:	JC89541-1	**Date Sampled:**	06/07/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119858.D	1	06/11/19 15:27	BK	n/a	n/a	V1B5787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB060719ALH1		
Lab Sample ID:	JC89541-1	**Date Sampled:**	06/07/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	82%		70-130%
460-00-4	4-Bromofluorobenzene	85%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.69	1.4	ug/l	J
1066-40-6	Silanol, trimethyl-	9.50	3.4	ug/l	JN
	Total TIC, Volatile		3.4	ug/l	J N

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-5		
Lab Sample ID:	JC89541-2	**Date Sampled:**	06/07/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119859.D	1	06/11/19 15:58	BK	n/a	n/a	V1B5787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-5		
Lab Sample ID:	JC89541-2	**Date Sampled:**	06/07/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	80%		70-130%
460-00-4	4-Bromofluorobenzene	84%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
1066-40-6	Silanol, trimethyl-	~~9.50~~	~~1.5~~	~~ug/l~~	~~JN~~	R
	Total TIC, Volatile		~~1.5~~	~~ug/l~~	~~J~~	R

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-6		
Lab Sample ID:	JC89541-3	**Date Sampled:**	06/07/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119860.D	1	06/11/19 16:29	BK	n/a	n/a	V1B5787
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW6-6		
Lab Sample ID:	JC89541-3	**Date Sampled:**	06/07/19
Matrix:	AQ - Ground Water	**Date Received:**	06/07/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	81%		70-130%
460-00-4	4-Bromofluorobenzene	83%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	

(a) EPA 524.2 is not a certified method for non-potable water samples.

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E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89541X**	**Date Collected:**	**06/07/2019 11:40**	**Matrix:**	**WATER**
Lab Sample ID:	**481624001**	**Date Received:**	**06/12/2019 09:00**		
Client Sample:	**2X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW6-5**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1888372**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**06/27/2019 03:23**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**06/26/2019 07:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s062619.B\s6f2630.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	0.278	ug/L	0.100	0.100	0.200

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89541X**	**Date Collected:**	**06/07/2019 12:05**	**Matrix:**	**WATER**
Lab Sample ID:	**481624002**	**Date Received:**	**06/12/2019 09:00**		
Client Sample:	**3X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW6-6**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1888372**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**06/27/2019 03:46**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**06/26/2019 07:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s062619.B\s6f2631.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	0.235	ug/L	0.100	0.100	0.200

Report of Analysis

Client Sample ID:	BPOW5-5		
Lab Sample ID:	JC89674-1	**Date Sampled:**	06/10/19
Matrix:	AQ - Water	**Date Received:**	06/11/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119875.D	1	06/13/19 16:51	BK	n/a	n/a	V1B5788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW5-5		
Lab Sample ID:	JC89674-1	**Date Sampled:**	06/10/19
Matrix:	AQ - Water	**Date Received:**	06/11/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	83%		70-130%
460-00-4	4-Bromofluorobenzene	89%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
1066-40-6	Silanol, trimethyl-	9.51	~~.88~~	~~ug/l~~	~~JN~~	R
	Total TIC, Volatile		~~.88~~	~~ug/l~~	~~J~~	

(a) EPA 524.2 is not a certified method for non-potable water samples.

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B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB061019RM1		
Lab Sample ID:	JC89674-2	**Date Sampled:**	06/10/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/11/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119874.D	1	06/13/19 16:20	BK	n/a	n/a	V1B5788
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB061019RM1		
Lab Sample ID:	JC89674-2	**Date Sampled:**	06/10/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/11/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	82%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.70	1.4	ug/l	J
1066-40-6	Silanol, trimethyl-	9.51	4.4	ug/l	JN
	Total TIC, Volatile		4.4	ug/l	J N

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N = Indicates presumptive evidence of a compound

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89674X**	**Date Collected:**	**06/10/2019 14:25**	**Matrix:**	**WATER**
Lab Sample ID:	**481959001**	**Date Received:**	**06/14/2019 09:00**		
Client Sample:	**1X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW5-5**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1888372**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**06/27/2019 04:10**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**06/26/2019 07:15**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s062619.B\s6f2632.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U B	2.19	ug/L	0.100	0.100	0.200

Report of Analysis

Client Sample ID:	BPOW5-4		
Lab Sample ID:	JC89792-1	**Date Sampled:**	06/11/19
Matrix:	AQ - Ground Water	**Date Received:**	06/12/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119922.D	1	06/20/19 12:56	BK	n/a	n/a	V1B5791
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	2.5	ug/l	J
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	J
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	J
75-25-2	Bromoform	ND	0.50	0.27	ug/l	J
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	J
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	J
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.22	ug/l	
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	J
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	J
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
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J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	BPOW5-4		
Lab Sample ID:	JC89792-1	**Date Sampled:**	06/11/19
Matrix:	AQ - Ground Water	**Date Received:**	06/12/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	79%		70-130%
460-00-4	4-Bromofluorobenzene	87%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
1066-40-6	Silanol, trimethyl-	~~9.52~~	~~3~~	~~ug/l~~	~~JNB~~	R
	Total TIC, Volatile		0	ug/l		

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RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB061119DI1		
Lab Sample ID:	JC89792-2	**Date Sampled:**	06/11/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/12/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 [a]	1B119929.D	1	06/20/19 16:33	BK	n/a	n/a	V1B5791
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	5.4	5.0	2.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.43	ug/l	
71-43-2	Benzene	ND	0.50	0.16	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.13	ug/l	
75-25-2	Bromoform	ND	0.50	0.27	ug/l	
74-83-9	Bromomethane	ND	0.50	0.18	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.18	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.093	ug/l	
75-00-3	Chloroethane	ND	0.50	0.080	ug/l	
67-66-3	Chloroform	ND	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.19	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.18	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.19	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.14	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.21	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	ND	1.0	0.34	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.24	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	0.42	2.0	0.22	ug/l	J
100-42-5	Styrene	ND	0.50	0.069	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.22	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.23	ug/l	
108-88-3	Toluene	ND	0.50	0.11	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	TB061119DI1		
Lab Sample ID:	JC89792-2	**Date Sampled:**	06/11/19
Matrix:	AQ - Trip Blank Water	**Date Received:**	06/12/19
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.20	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.15	ug/l	
	m,p-Xylene	ND	0.50	0.14	ug/l	
95-47-6	o-Xylene	ND	0.50	0.076	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	78%		70-130%
460-00-4	4-Bromofluorobenzene	86%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.70	.93	ug/l	J
1066-40-6	Silanol, trimethyl-	9.52	35	ug/l	JNB
	Total TIC, Volatile		0	ug/l	N

(a) EPA 524.2 is not a certified method for non-potable water samples.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

2

Semi-Volatile
Certificate of Analysis
Sample Summary

SDG Number:	**JC89792X**	**Date Collected:**	**06/11/2019 12:05**	**Matrix:**	**WATER**
Lab Sample ID:	**482593001**	**Date Received:**	**06/21/2019 08:55**		
Client Sample:	**1X**	**Client:**	**ACTL003**	**Project:**	**ACTL00316**
Client ID:	**BPOW5-4**	**Method:**	**EPA 522**	**SOP Ref:**	**GL-OA-E-073**
Batch ID:	**1894093**	**Inst:**	**MSD6.I**	**Dilution:**	**1**
Run Date:	**07/09/2019 18:39**	**Analyst:**	**JMB3**	**Inj. Vol:**	**1 uL**
Prep Date:	**07/09/2019 11:30**	**Aliquot:**	**100 mL**	**Final Volume:**	**2 mL**
Data File:	**s070919.B\s6g0907.D**		**Rtx-624**		

CAS No.	Parmname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	B	1.07	ug/L	0.100	0.100	0.200

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-1RA
Client ID: TB060519ALH1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9470.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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ANALYTICAL SERVICES

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-1RA
Client ID: TB060519ALH1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9470.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		103.	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		131.	%				
Dibromofluoromethane		112.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-2RA
Client ID: FB060519ALH1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9471.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone		6.3	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-2RA
Client ID: FB060519ALH1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9471.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		103.	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-3RA
Client ID: RE115D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9472.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene		3.4	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		6.8	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	J	0.39	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene		1.9	ug/L	1	1	1.0	0.21
Chloroform		2.7	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	J	0.51	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	J	0.35	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene		110	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	J	0.58	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-3RA
Client ID: RE115D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9472.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		97.7	%				
Toluene-d8		96.9	%				
1,2-Dichloroethane-d4		132.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-4DLRA
Client ID: RE115D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9495.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	10	ug/L	10	1	10.	3.6
Vinyl Chloride	U	10	ug/L	10	1	10.	2.5
Bromomethane	U	20	ug/L	10	2	20.	4.9
Chloroethane	U	10	ug/L	10	1	10.	5.5
1,1-Dichloroethene		19	ug/L	10	1	10.	3.5
Carbon Disulfide	U	10	ug/L	10	1	10.	2.5
Freon-113		38	ug/L	10	1	10.	3.1
Methylene Chloride	U	50	ug/L	10	5	50.	11.
Acetone	U	50	ug/L	10	5	50.	22.
trans-1,2-Dichloroethene	U	10	ug/L	10	1	10.	2.5
1,1-Dichloroethane	U	10	ug/L	10	1	10.	2.1
cis-1,2-Dichloroethene	U	10	ug/L	10	1	10.	2.1
Chloroform	U	10	ug/L	10	1	10.	3.2
Carbon Tetrachloride	U	10	ug/L	10	1	10.	2.2
1,1,1-Trichloroethane	U	10	ug/L	10	1	10.	2.0
2-Butanone	U	50	ug/L	10	5	50.	13.
Benzene	U	10	ug/L	10	1	10.	2.6
1,2-Dichloroethane	U	10	ug/L	10	1	10.	2.0
Trichloroethene		480	ug/L	10	1	10.	2.8
1,2-Dichloropropane	U	10	ug/L	10	1	10.	2.5
Bromodichloromethane	U	10	ug/L	10	1	10.	3.3
cis-1,3-Dichloropropene	U	10	ug/L	10	1	10.	1.9
Toluene	U	10	ug/L	10	1	10.	2.7
4-Methyl-2-Pentanone	U	50	ug/L	10	5	50.	13.
Tetrachloroethene	U	10	ug/L	10	1	10.	4.0
trans-1,3-Dichloropropene	U	10	ug/L	10	1	10.	2.0
1,1,2-Trichloroethane	U	10	ug/L	10	1	10.	3.3
Dibromochloromethane	U	10	ug/L	10	1	10.	3.0
2-Hexanone	U	50	ug/L	10	5	50.	17.
Chlorobenzene	U	10	ug/L	10	1	10.	2.2
Ethylbenzene	U	10	ug/L	10	1	10.	2.1
m+p-Xylenes	U	20	ug/L	10	2	20.	5.9
o-Xylene	U	10	ug/L	10	1	10.	2.5
Styrene	U	10	ug/L	10	1	10.	2.3
Bromoform	U	10	ug/L	10	1	10.	2.3

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ANALYTICAL SERVICES

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-4DL.RA
Client ID: RE115D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9495.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	10	ug/L	10	1	10.	3.8
P-Bromofluorobenzene		97.2	%				
Toluene-d8		99.1	%				
1,2-Dichloroethane-d4		131.	%				
Dibromofluoromethane		116.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-4RA
Client ID: RE115D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9501.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene		17	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	J	32	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane		1.8	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene		2.8	ug/L	1	1	1.0	0.21
Chloroform		1.3	ug/L	1	1	1.0	0.32
Carbon Tetrachloride		1.8	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane		1.4	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene 480 D	~~E~~	~~630~~	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	J	0.92	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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ANALYTICAL SERVICES

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-4RA
Client ID: RE115D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: W9501.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		95.4	%				
Toluene-d8		97.7	%				
1,2-Dichloroethane-d4		127.	%				
Dibromofluoromethane		114.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-2
Client ID: FB060519ALH1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: G6441.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 10-JUN-19
Extracted By: KD/AC
Extraction Method: SW846 3520C
Lab Prep Batch: WG254599

Analysis Date: 11-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 12-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.085
1,4-Dioxane-D8		55.6	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-3
Client ID: RE115D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: G6442.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 10-JUN-19
Extracted By: KD/AC
Extraction Method: SW846 3520C
Lab Prep Batch: WG254599

Analysis Date: 11-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 12-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		5.0	ug/L	1	.25	0.23	0.079
1,4-Dioxane-D8		55.6	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5594-4
Client ID: RE115D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5594
Lab File ID: G6443.D

Sample Date: 05-JUN-19
Received Date: 06-JUN-19
Extract Date: 10-JUN-19
Extracted By: KD/AC
Extraction Method: SW846 3520C
Lab Prep Batch: WG254599

Analysis Date: 11-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 12-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		8.0	ug/L	1	.25	0.23	0.079
1,4-Dioxane-D8		66.6	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-1RA
Client ID: RE133D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: T1234.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 17-JUN-19
Extracted By: HG
Extraction Method: SW846 5030C
Lab Prep Batch: WG255072

Analysis Date: 17-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 02-JUL-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U J	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-1RA
Client ID: RE133D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: T1234.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 17-JUN-19
Extracted By: HG
Extraction Method: SW846 5030C
Lab Prep Batch: WG255072

Analysis Date: 17-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 02-JUL-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		105.	%				
Toluene-d8		105.	%				
1,2-Dichloroethane-d4		127.	%				
Dibromofluoromethane		126.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-2RA
Client ID: RE133D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: T1235.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 17-JUN-19
Extracted By: HG
Extraction Method: SW846 5030C
Lab Prep Batch: WG255072

Analysis Date: 17-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 02-JUL-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U J	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-2RA
Client ID: RE133D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: T1235.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 17-JUN-19
Extracted By: HG
Extraction Method: SW846 5030C
Lab Prep Batch: WG255072

Analysis Date: 17-JUN-19
Analyst: HG
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 02-JUL-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		101.	%				
Toluene-d8		101.	%				
1,2-Dichloroethane-d4		124.	%				
Dibromofluoromethane		126.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-3RA
Client ID: FB060619PP1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: W9473.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene		2.2	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-3RA
Client ID: FB060619PP1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: W9473.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		134.	%				
Dibromofluoromethane		117.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-4RA
Client ID: TB060619PP1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: W9474.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-4RA
Client ID: TB060619PP1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: W9474.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		134.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-1
Client ID: RE133D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: G6438.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 10-JUN-19
Extracted By: KD/AC
Extraction Method: SW846 3520C
Lab Prep Batch: WG254599

Analysis Date: 11-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 28-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	J	0.19	ug/L	1	.25	0.23	0.079
1,4-Dioxane-D8		63.0	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-2
Client ID: RE133D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5664
Lab File ID: G6439.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 10-JUN-19
Extracted By: KD/AC
Extraction Method: SW846 3520C
Lab Prep Batch: WG254599

Analysis Date: 11-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 28-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.24	ug/L	1	.25	0.24	0.081
1,4-Dioxane-D8		62.2	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5664-3
Client ID: FB060619PP1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5664
Lab File ID: G6440.D

Sample Date: 06-JUN-19
Received Date: 07-JUN-19
Extract Date: 10-JUN-19
Extracted By: KD/AC
Extraction Method: SW846 3520C
Lab Prep Batch: WG254599

Analysis Date: 11-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 12-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.086
1,4-Dioxane-D8		53.4	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-1
Client ID: FB061019MM1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9468.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.40	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene		1.1	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-1
Client ID: FB061019MM1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9468.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-2
Client ID: TB061019MM1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9467.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.47	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-2
Client ID: TB061019MM1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9467.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		101.	%				
Toluene-d8		103.	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-3
Client ID: RE130D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9480.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-3
Client ID: RE130D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9480.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		105.	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4	*	136.	%				
Dibromofluoromethane		114.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-4
Client ID: RE130D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9481.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.38	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

1.0 UB

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-4
Client ID: RE130D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: W9481.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254862

Analysis Date: 13-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		131.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-1
Client ID: FB061019MM1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: G6471.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: LR/JPH
Extraction Method: SW846 3520C
Lab Prep Batch: WG254866

Analysis Date: 14-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.085
1,4-Dioxane-D8		57.6	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-3
Client ID: RE130D1
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: G6472.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: LR/JPH
Extraction Method: SW846 3520C
Lab Prep Batch: WG254866

Analysis Date: 14-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.24	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		56.9	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5775-4
Client ID: RE130D2
Project: OU2 - Navy, Bethpage, NY
SDG: SM5775
Lab File ID: G6473.D

Sample Date: 10-JUN-19
Received Date: 11-JUN-19
Extract Date: 13-JUN-19
Extracted By: LR/JPH
Extraction Method: SW846 3520C
Lab Prep Batch: WG254866

Analysis Date: 14-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.24	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		57.6	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-1
Client ID: TB061119MM1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9491.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	J	0.72	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.47	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-1
Client ID: TB061119MM1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9491.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		103.	%				
1,2-Dichloroethane-d4		132.	%				
Dibromofluoromethane		113.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-2
Client ID: FB061119MM1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9492.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	J	0.80	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	J	0.28	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	J	3.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	J	0.53	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-2
Client ID: FB061119MM1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9492.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		100.	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		127.	%				
Dibromofluoromethane		111.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-3
Client ID: RE127D1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9499.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound		Qualifier	Result		Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane		U	1.0		ug/L	1	1	1.0	0.36
Vinyl Chloride		U	1.0		ug/L	1	1	1.0	0.25
Bromomethane		U	2.0		ug/L	1	2	2.0	0.49
Chloroethane		U	1.0		ug/L	1	1	1.0	0.55
1,1-Dichloroethene		U	1.0		ug/L	1	1	1.0	0.35
Carbon Disulfide	1.0	~~J~~	0.56	UB	ug/L	1	1	1.0	0.25
Freon-113		U	1.0		ug/L	1	1	1.0	0.31
Methylene Chloride		U	5.0		ug/L	1	5	5.0	1.1
Acetone		U	5.0		ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene		U	1.0		ug/L	1	1	1.0	0.25
1,1-Dichloroethane		U	1.0		ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene		U	1.0		ug/L	1	1	1.0	0.21
Chloroform		U	1.0		ug/L	1	1	1.0	0.32
Carbon Tetrachloride		U	1.0		ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane		U	1.0		ug/L	1	1	1.0	0.20
2-Butanone		U	5.0		ug/L	1	5	5.0	1.3
Benzene		U	1.0		ug/L	1	1	1.0	0.26
1,2-Dichloroethane		U	1.0		ug/L	1	1	1.0	0.20
Trichloroethene		U	1.0		ug/L	1	1	1.0	0.28
1,2-Dichloropropane		U	1.0		ug/L	1	1	1.0	0.25
Bromodichloromethane		U	1.0		ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene		U	1.0		ug/L	1	1	1.0	0.19
Toluene		U	1.0		ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone		U	5.0		ug/L	1	5	5.0	1.3
Tetrachloroethene		U	1.0		ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene		U	1.0		ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane		U	1.0		ug/L	1	1	1.0	0.33
Dibromochloromethane		U	1.0		ug/L	1	1	1.0	0.30
2-Hexanone		U	5.0		ug/L	1	5	5.0	1.7
Chlorobenzene		U	1.0		ug/L	1	1	1.0	0.22
Ethylbenzene		U	1.0		ug/L	1	1	1.0	0.21
m+p-Xylenes		U	2.0		ug/L	1	2	2.0	0.59
o-Xylene		U	1.0		ug/L	1	1	1.0	0.25
Styrene		U	1.0		ug/L	1	1	1.0	0.23
Bromoform		U	1.0		ug/L	1	1	1.0	0.23

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-3
Client ID: RE127D1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9499.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		100.	%				
Toluene-d8		103.	%				
1,2-Dichloroethane-d4		130.	%				
Dibromofluoromethane		114.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-4
Client ID: RE127D2
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9500.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide 1.0	~~J~~	~~0.43~~ UB	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	5.0	ug/L	1	5	5.0	1.1
Acetone	U	5.0	ug/L	1	5	5.0	2.2
trans-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.25
1,1-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.21
cis-1,2-Dichloroethene	U	1.0	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	U	1.0	ug/L	1	1	1.0	0.22
1,1,1-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.20
2-Butanone	U	5.0	ug/L	1	5	5.0	1.3
Benzene	U	1.0	ug/L	1	1	1.0	0.26
1,2-Dichloroethane	U	1.0	ug/L	1	1	1.0	0.20
Trichloroethene	U	1.0	ug/L	1	1	1.0	0.28
1,2-Dichloropropane	U	1.0	ug/L	1	1	1.0	0.25
Bromodichloromethane	U	1.0	ug/L	1	1	1.0	0.33
cis-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.19
Toluene	U	1.0	ug/L	1	1	1.0	0.27
4-Methyl-2-Pentanone	U	5.0	ug/L	1	5	5.0	1.3
Tetrachloroethene	U	1.0	ug/L	1	1	1.0	0.40
trans-1,3-Dichloropropene	U	1.0	ug/L	1	1	1.0	0.20
1,1,2-Trichloroethane	U	1.0	ug/L	1	1	1.0	0.33
Dibromochloromethane	U	1.0	ug/L	1	1	1.0	0.30
2-Hexanone	U	5.0	ug/L	1	5	5.0	1.7
Chlorobenzene	U	1.0	ug/L	1	1	1.0	0.22
Ethylbenzene	U	1.0	ug/L	1	1	1.0	0.21
m+p-Xylenes	U	2.0	ug/L	1	2	2.0	0.59
o-Xylene	U	1.0	ug/L	1	1	1.0	0.25
Styrene	U	1.0	ug/L	1	1	1.0	0.23
Bromoform	U	1.0	ug/L	1	1	1.0	0.23

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ANALYTICAL SERVICES

Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-4
Client ID: RE127D2
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: W9500.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 14-JUN-19
Extracted By: JR/JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG254926

Analysis Date: 14-JUN-19
Analyst: JR/JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		102.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		127.	%				
Dibromofluoromethane		114.	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-2
Client ID: FB061119MM1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: G6474.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 13-JUN-19
Extracted By: LR/JPH
Extraction Method: SW846 3520C
Lab Prep Batch: WG254866

Analysis Date: 14-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.085
1,4-Dioxane-D8		61.0	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-3
Client ID: RE127D1
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: G6475.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 13-JUN-19
Extracted By: LR/JPH
Extraction Method: SW846 3520C
Lab Prep Batch: WG254866

Analysis Date: 14-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	J	0.11	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		54.0	%				

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Report of Analytical Results

Client: ARCADIS
Lab ID: SM5836-4
Client ID: RE127D2
Project: OU2 - NAVY, Bethpage, NY
SDG: SM5836
Lab File ID: G6476.D

Sample Date: 11-JUN-19
Received Date: 12-JUN-19
Extract Date: 13-JUN-19
Extracted By: LR/JPH
Extraction Method: SW846 3520C
Lab Prep Batch: WG254866

Analysis Date: 14-JUN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 17-JUN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	J	0.094	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		55.5	%				

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