

Pelton, Jason M (DEC)

From: Wu, Ernie <Ernie.Wu@tetrattech.com>
Sent: Wednesday, March 13, 2019 5:39 PM
To: Pelton, Jason M (DEC); Karpinski, Steven (HEALTH); Lovejoy, John (NASSAU);
thantu.lorenzo@epa.gov; Garbarini.Doug@epa.gov; rlenz@oysterbay-ny.gov
Cc: Murray, Brian S CIV USN NAVFAC MIDLANT NOR (US); Fly, Lora B CIV NAVFAC MIDLANT, IPTNORTH;
Brayack, David; Francisco, Ben
Subject: Bethpage OU2 - Q4 2018 Form 1 Results
Attachments: Form 1_022819.pdf

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All:

Attached are the **Form 1** validated data for **Fourth Quarter 2018** from the following **monitoring wells**:

- RE109D1, RE109D2 and RE109D3
- RE121D1 and RE121D2
- TT102D, TT102D2

Form 1 data includes both VOCs and 1,4-dioxane results.
Samples were collected between **12/07/18 and 12/18/18**.

Ernie Wu | Project Manager | Environmental Scientist
Main: 757.461.3768 | Direct: 757.466.4901 | Fax: 757.461.4148
ernie.wu@tetrattech.com

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Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-1
Client ID: RE109D3
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7479.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 19-DEC-18
Extracted By: JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG243009

Analysis Date: 19-DEC-18
Analyst: JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		2.4	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	J	0.78	ug/L	1	1	1.0	0.21
Chloroform	U	1.0	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	J	0.67	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	J	0.34	ug/L	1	1	1.0	0.20
Trichloroethene		71	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	J	0.52	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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-1
Client ID: RE109D3
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7479.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 19-DEC-18
Extracted By: JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG243009

Analysis Date: 19-DEC-18
Analyst: JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		116.	%				
Dibromofluoromethane		111.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-2
Client ID: FB121718PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7471.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 19-DEC-18
Extracted By: JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG243009

Analysis Date: 19-DEC-18
Analyst: JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-2
Client ID: FB121718PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7471.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 19-DEC-18
Extracted By: JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG243009

Analysis Date: 19-DEC-18
Analyst: JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		106.	%				
1,2-Dichloroethane-d4		112.	%				
Dibromofluoromethane		110.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-3
Client ID: TB121718PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7469.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 19-DEC-18
Extracted By: JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG243009

Analysis Date: 19-DEC-18
Analyst: JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-3
Client ID: TB121718PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7469.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 19-DEC-18
Extracted By: JSS
Extraction Method: SW846 5030C
Lab Prep Batch: WG243009

Analysis Date: 19-DEC-18
Analyst: JSS
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		105.	%				
1,2-Dichloroethane-d4		113.	%				
Dibromofluoromethane		111.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-1
Client ID: RE121D1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7531.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		1.8	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113		8.1	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		1.2	ug/L	1	1	1.0	0.21
Chloroform	J	0.48	ug/L	1	1	1.0	0.32
Carbon Tetrachloride	J	0.36	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		37	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 J	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 J	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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-1
Client ID: RE121D1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7531.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		104.	%				
1,2-Dichloroethane-d4		117.	%				
Dibromofluoromethane		110.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-2DL
Client ID: RE121D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7530.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	20	ug/L	20	1	20.	7.2
Vinyl Chloride	U	20	ug/L	20	1	20.	5.0
Bromomethane	U	40	ug/L	20	2	40.	9.8
Chloroethane	U	20	ug/L	20	1	20.	11.
1,1-Dichloroethene	U	20	ug/L	20	1	20.	7.0
Carbon Disulfide	U	20	ug/L	20	1	20.	5.0
Freon-113	J	9.8	ug/L	20	1	20.	6.2
Methylene Chloride	U	100	ug/L	20	5	100	23.
Acetone	U	100	ug/L	20	5	100	44.
trans-1,2-Dichloroethene	U	20	ug/L	20	1	20.	5.0
1,1-Dichloroethane	U	20	ug/L	20	1	20.	4.2
cis-1,2-Dichloroethene	U	20	ug/L	20	1	20.	4.2
Chloroform	U	20	ug/L	20	1	20.	6.4
Carbon Tetrachloride	U	20	ug/L	20	1	20.	4.4
1,1,1-Trichloroethane	U	20	ug/L	20	1	20.	4.0
2-Butanone	U	100	ug/L	20	5	100	26.
Benzene	U	20	ug/L	20	1	20.	5.2
1,2-Dichloroethane	U	20	ug/L	20	1	20.	4.0
Trichloroethene		650	ug/L	20	1	20.	5.6
1,2-Dichloropropane	U	20	ug/L	20	1	20.	5.0
Bromodichloromethane	U	20	ug/L	20	1	20.	6.6
cis-1,3-Dichloropropene	U	20	ug/L	20	1	20.	3.8
Toluene	U	20	ug/L	20	1	20.	5.4
4-Methyl-2-Pentanone	U	100	ug/L	20	5	100	26.
Tetrachloroethene	U	20	ug/L	20	1	20.	8.0
trans-1,3-Dichloropropene	U	20	ug/L	20	1	20.	4.0
1,1,2-Trichloroethane	U	20	ug/L	20	1	20.	6.6
Dibromochloromethane	U	20	ug/L	20	1	20.	6.0
2-Hexanone	U	100	ug/L	20	5	100	34.
Chlorobenzene	U	20	ug/L	20	1	20.	4.4
Ethylbenzene	U	20	ug/L	20	1	20.	4.2
m+p-Xylenes	U	40	ug/L	20	2	40.	12.
o-Xylene	U	20	ug/L	20	1	20.	5.0
Styrene	U	20	ug/L	20	1	20.	4.6
Bromoform	U	20	ug/L	20	1	20.	4.6

Report of Analytical Results

Client: ARCADIS

Lab ID: TL2602-2DL

Client ID: RE121D2

Project: Navy Wells OU2, Bethpage, NY

SDG: OU2-Navy-11

Lab File ID: W7530.D

Sample Date: 18-DEC-18

Received Date: 19-DEC-18

Extract Date: 21-DEC-18

Extracted By: HG/JR

Extraction Method: SW846 5030C

Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18

Analyst: HG/JR

Analysis Method: SW846 8260C

Matrix: AQ

% Solids: NA

Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	20	ug/L	20	1	20.	7.6
P-Bromofluorobenzene		106.	%				
Toluene-d8		105.	%				
1,2-Dichloroethane-d4		114.	%				
Dibromofluoromethane		111.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-2DL2
Client ID: RE121D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7534.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	2.0	ug/L	2	1	2.0	0.72
Vinyl Chloride	U	2.0	ug/L	2	1	2.0	0.50
Bromomethane	U	4.0	ug/L	2	2	4.0	0.98
Chloroethane	U	2.0	ug/L	2	1	2.0	1.1
1,1-Dichloroethene		3.3	ug/L	2	1	2.0	0.70
Carbon Disulfide	U	2.0	ug/L	2	1	2.0	0.50
Freon-113		10	ug/L	2	1	2.0	0.62
Methylene Chloride	U	10	ug/L	2	5	10.	2.3
Acetone	U	10	ug/L	2	5	10.	4.4
trans-1,2-Dichloroethene	U	2.0	ug/L	2	1	2.0	0.50
1,1-Dichloroethane	U	2.0	ug/L	2	1	2.0	0.42
cis-1,2-Dichloroethene		2.8	ug/L	2	1	2.0	0.42
Chloroform	J	1.9	ug/L	2	1	2.0	0.64
Carbon Tetrachloride		3.4	ug/L	2	1	2.0	0.44
1,1,1-Trichloroethane	U	2.0	ug/L	2	1	2.0	0.40
2-Butanone	U	10	ug/L	2	5	10.	2.6
Benzene	U	2.0	ug/L	2	1	2.0	0.52
1,2-Dichloroethane	U	2.0	ug/L	2	1	2.0	0.40
Trichloroethene	D	E 880	650 ug/L	2	1	2.0	0.56
1,2-Dichloropropane	U	2.0	ug/L	2	1	2.0	0.50
Bromodichloromethane	U	2.0	ug/L	2	1	2.0	0.66
cis-1,3-Dichloropropene	U	2.0	ug/L	2	1	2.0	0.38
Toluene	U	2.0	ug/L	2	1	2.0	0.54
4-Methyl-2-Pentanone	U J	10	ug/L	2	5	10.	2.6
Tetrachloroethene	U	2.0	ug/L	2	1	2.0	0.80
trans-1,3-Dichloropropene	U	2.0	ug/L	2	1	2.0	0.40
1,1,2-Trichloroethane	U	2.0	ug/L	2	1	2.0	0.66
Dibromochloromethane	U	2.0	ug/L	2	1	2.0	0.60
2-Hexanone	U J	10	ug/L	2	5	10.	3.4
Chlorobenzene	U	2.0	ug/L	2	1	2.0	0.44
Ethylbenzene	U	2.0	ug/L	2	1	2.0	0.42
m+p-Xylenes	U	4.0	ug/L	2	2	4.0	1.2
o-Xylene	U	2.0	ug/L	2	1	2.0	0.50
Styrene	U	2.0	ug/L	2	1	2.0	0.46
Bromoform	U	2.0	ug/L	2	1	2.0	0.46

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-2DL2
Client ID: RE121D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7534.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	2.0	ug/L	2	1	2.0	0.76
P-Bromofluorobenzene		103.	%				
Toluene-d8		103.	%				
1,2-Dichloroethane-d4		115.	%				
Dibromofluoromethane		111.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-3
Client ID: FB121818PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7525.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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 J	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 J	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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-3
Client ID: FB121818PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7525.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		104.	%				
1,2-Dichloroethane-d4		112.	%				
Dibromofluoromethane		110.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-4
Client ID: TB121818PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7528.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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 J	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 J	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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-4
Client ID: TB121818PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7528.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		103.	%				
1,2-Dichloroethane-d4		114.	%				
Dibromofluoromethane		110.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-1
Client ID: RE109D3
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5193.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 26-DEC-18
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		7.6	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		66.0	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2542-2
Client ID: FB121718PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5194.D

Sample Date: 17-DEC-18
Received Date: 18-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 26-DEC-18
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		64.8	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-1
Client ID: RE121D1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5450.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 17-JAN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		12	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		76.0	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-2
Client ID: RE121D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5451.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 17-JAN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		5.0	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		48.4	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2602-3
Client ID: FB121818PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5452.D

Sample Date: 18-DEC-18
Received Date: 19-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 17-JAN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-1
Client ID: RE109D1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7532.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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	J	0.69	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		30	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	J	0.54	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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-1
Client ID: RE109D1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7532.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		104.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		118.	%				
Dibromofluoromethane		110.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-2
Client ID: RE109D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7533.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		1.5	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	J	0.40	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		44	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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-2
Client ID: RE109D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7533.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		104.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		116.	%				
Dibromofluoromethane		111.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-3
Client ID: TB121918PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7526.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-3
Client ID: TB121918PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7526.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		103.	%				
1,2-Dichloroethane-d4		111.	%				
Dibromofluoromethane		110.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-4
Client ID: FB121918PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7527.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-4
Client ID: FB121918PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: W7527.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: HG/JR
Extraction Method: SW846 5030C
Lab Prep Batch: WG243262

Analysis Date: 21-DEC-18
Analyst: HG/JR
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		104.	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		116.	%				
Dibromofluoromethane		112.	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-1
Client ID: RE109D1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5455.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 17-JAN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		6.4	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		67.4	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-2
Client ID: RE109D2
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5456.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 17-JAN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		7.1	ug/L	1	.25	0.24	0.081
1,4-Dioxane-D8		68.4	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2657-4
Client ID: FB121918PP1
Project: Navy Wells OU2, Bethpage, NY
SDG: OU2-Navy-11
Lab File ID: G5457.D

Sample Date: 19-DEC-18
Received Date: 20-DEC-18
Extract Date: 21-DEC-18
Extracted By: JMS
Extraction Method: SW846 3520C
Lab Prep Batch: WG243293

Analysis Date: 17-JAN-19
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 18-JAN-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		67.1	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2215-2
Client ID: TT102D
Project: Navy Wells-OU2, Bethpage, NY
SDG: TL2215
Lab File ID: G5108.D

Sample Date: 07-DEC-18
Received Date: 10-DEC-18
Extract Date: 10-DEC-18
Extracted By: AC/LR
Extraction Method: SW846 3520C
Lab Prep Batch: WG242407

Analysis Date: 12-DEC-18
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 03-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		0.46	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		55.0	%				

Report of Analytical Results

Client: ARCADIS
Lab ID: TL2215-3
Client ID: TT102D2
Project: Navy Wells-OU2, Bethpage, NY
SDG: TL2215
Lab File ID: G5107.D

Sample Date: 07-DEC-18
Received Date: 10-DEC-18
Extract Date: 10-DEC-18
Extracted By: AC/LR
Extraction Method: SW846 3520C
Lab Prep Batch: WG242407

Analysis Date: 12-DEC-18
Analyst: JCG
Analysis Method: SW846 8270D SIM
Matrix: AQ
% Solids: NA
Report Date: 03-JAN-19

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.24	ug/L	1	.25	0.24	0.082
1,4-Dioxane-D8		64.0	%				

Report of Analysis

Client Sample ID: TB120718DC1		Date Sampled: 12/07/18
Lab Sample ID: JC79689-1		Date Received: 12/13/18
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Work Order # TL2215		

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	100%		70-130%
460-00-4	4-Bromofluorobenzene	94%		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.

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

4.1
4

Report of Analysis

Client Sample ID: TT102D	Date Sampled: 12/07/18
Lab Sample ID: JC79689-2	Date Received: 12/13/18
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Work Order # TL2215	

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	98%		70-130%
460-00-4	4-Bromofluorobenzene	92%		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.

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

4.2
4

Report of Analysis

Client Sample ID: TT102D2		Date Sampled: 12/07/18
Lab Sample ID: JC79689-3		Date Received: 12/13/18
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Work Order # TL2215		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B117665.D	1	12/19/18 15:49	BK	n/a	n/a	V1B5672
Run #2							

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

Report of Analysis

Client Sample ID: TT102D2	Date Sampled: 12/07/18
Lab Sample ID: JC79689-3	Date Received: 12/13/18
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Work Order # TL2215	

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	95%		70-130%
460-00-4	4-Bromofluorobenzene	92%		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.

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

4.3
4