

Pelton, Jason M (DEC)

From: Zahradnik, Art <Art.Zahradnik@arcadis.com>
Sent: Monday, July 13, 2020 3:37 PM
To: Pelton, Jason M (DEC)
Cc: Scharf, Steven (DEC); Hesler, Donald (DEC); Hannon, ED [US] (AS); Stern, David; Wolfert, Mike; San Giovanni, Carlo; brian.s.murray@navy.mil; Brayack, David; Wu, Ernie
Subject: DELIVERABLE - Form 1 Data - Northrop Grumman Bethpage - OU2 2Q-2020 Groundwater Sampling
Attachments: Form1_BPOW1_2_3_4 cluster.pdf

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Good afternoon Jason,

On behalf of Northrop Grumman, Arcadis is submitting the attached Form 1 data. As per discussions between Northrop Grumman and NYSDEC, NYSDEC requested that Northrop Grumman submit the validated Form 1s as soon as the information is available.

The attached Form 1's are for the OU2 2Q 2020 routine sampling event (samples collected between 4/20/20 and 4/23/20) per the OU2 Groundwater Monitoring Plan (Arcadis 2016).

For your information, replicate sample REP042320BW1 was collected on BPOW4-1R.

Arcadis will provide Form 1s for the rest of OU2 2Q 2020 over the next several weeks, as they are validated.

Please let us know if you have any questions,

Thank you,

-Art

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Report of Analysis

Client Sample ID: TB042020BW1 Lab Sample ID: JD6288-1 Matrix: AQ - Trip Blank Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/20/20 Date Received: 04/21/20 Percent Solids: n/a
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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	94%		70-130%		
460-00-4	4-Bromofluorobenzene	92%		70-130%		
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
1066-40-6	Silanol, trimethyl-	9.17	.8	ug/l	JN	
	Total TIC, Volatile		.8	ug/l	J	

- (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 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: TB042020MW1 Lab Sample ID: JD6288-2 Matrix: AQ - Trip Blank Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/20/20 Date Received: 04/21/20 Percent Solids: n/a
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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	94%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1066-40-6	Silanol, trimethyl-	9.16	42	ug/l	JN
109-99-9	Furan, tetrahydro-	9.81	.57	ug/l	JN
	Total TIC, Volatile		42.57	ug/l	J

- (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 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

4.2
4

Report of Analysis

Client Sample ID: BPOW1-3 Lab Sample ID: JD6288-3 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/20/20 Date Received: 04/21/20 Percent Solids: n/a
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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	91%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1066-40-6	Silanol, trimethyl-	9.16	10	ug/l	JN
	Total TIC, Volatile		10	ug/l	J

- (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 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

Report of Analysis

Client Sample ID: BPOW1-1 Lab Sample ID: JD6288-4 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/20/20 Date Received: 04/21/20 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	0.85	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	93%		70-130%		
460-00-4	4-Bromofluorobenzene	91%		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 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

4.4
4

Report of Analysis

Client Sample ID: BPOW1-5 Lab Sample ID: JD6288-5 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/20/20 Date Received: 04/21/20 Percent Solids: n/a
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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	91%		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 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

4.5
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6288X
 Lab Sample ID: 509868001

 Client ID: BPOW1-3
 Batch ID: 1995282
 Run Date: 05/08/2020 20:03
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0835.D

Date Collected: 04/20/2020 12:05
 Date Received: 04/22/2020 08:45
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rtx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U	0.0800	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6288X
 Lab Sample ID: 509868002

 Client ID: BPOW1-1
 Batch ID: 1995282
 Run Date: 05/08/2020 21:17
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0838.D

Date Collected: 04/20/2020 14:10
 Date Received: 04/22/2020 08:45
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U	0.0800	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6288X
 Lab Sample ID: 509868003

 Client ID: BPOW1-5
 Batch ID: 1995282
 Run Date: 05/08/2020 22:55
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0842.D

Date Collected: 04/20/2020 12:47
 Date Received: 04/22/2020 08:45
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U	0.0800	ug/L	0.0400	0.0800	0.200

2

Report of Analysis

Client Sample ID: TB042220BW1	Date Sampled: 04/22/20
Lab Sample ID: JD6389-1	Date Received: 04/23/20
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
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	93%		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.

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: TB042220MW1 Lab Sample ID: JD6389-2 Matrix: AQ - Trip Blank Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/22/20 Date Received: 04/23/20 Percent Solids: n/a
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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	92%		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-	9.15	43	ug/l	JN
109-99-9	Furan, tetrahydro-	9.80	.51	ug/l	JN
	Total TIC, Volatile		43.51	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 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

4.2
4

Report of Analysis

Client Sample ID: BPOW1-2	Date Sampled: 04/22/20
Lab Sample ID: JD6389-3	Date Received: 04/23/20
Matrix: AQ - Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Navy Wells OU2, Bethpage, NY	

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	0.42	0.50	0.20	ug/l	J
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	
1066-40-6	Silanol, trimethyl-	9.16	.5	ug/l	JN	
	Total TIC, Volatile		.5	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 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

Report of Analysis

Client Sample ID: BPOW1-6 Lab Sample ID: JD6389-5 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/22/20 Date Received: 04/23/20 Percent Solids: n/a
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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	96%		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.

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

4.5
4

Report of Analysis

Client Sample ID: BPOW1-4 Lab Sample ID: JD6389-6 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/22/20 Date Received: 04/23/20 Percent Solids: n/a
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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	101%		70-130%
460-00-4	4-Bromofluorobenzene	90%		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

4.6
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6389X
 Lab Sample ID: 510065001

 Client ID: BPOW1-2
 Batch ID: 1995282
 Run Date: 05/09/2020 01:19
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0848.D

Date Collected: 04/22/2020 11:07
 Date Received: 04/24/2020 08:30
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U	0.0800	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6389X
 Lab Sample ID: 510065003

 Client ID: BPOW1-6
 Batch ID: 1995282
 Run Date: 05/09/2020 02:08
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0850.D

Date Collected: 04/22/2020 13:35
 Date Received: 04/24/2020 08:30
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U	0.0800	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6389X
 Lab Sample ID: 510065004

 Client ID: BPOW1-4
 Batch ID: 1995282
 Run Date: 05/09/2020 02:56
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0852.D

Date Collected: 04/22/2020 14:10
 Date Received: 04/24/2020 08:30
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane	U	0.0800	ug/L	0.0400	0.0800	0.200

2

Report of Analysis

Client Sample ID: TB042120MW1 Lab Sample ID: JD6330-1 Matrix: AQ - Trip Blank Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/21/20 Date Received: 04/22/20 Percent Solids: n/a
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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	90%		70-130%		
460-00-4	4-Bromofluorobenzene	93%		70-130%		
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
1066-40-6	Silanol, trimethyl-	9.16	18	ug/l	JN	
109-99-9	Furan, tetrahydro-	9.81	.58	ug/l	JN	
	Total TIC, Volatile		18.58	ug/l	JN	

(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: BPOW2-1 Lab Sample ID: JD6330-5 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/21/20 Date Received: 04/22/20 Percent Solids: n/a
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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	91%		70-130%		
460-00-4	4-Bromofluorobenzene	90%		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

4.5
4

Report of Analysis

Client Sample ID: BPOW2-2 Lab Sample ID: JD6330-6 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/21/20 Date Received: 04/22/20 Percent Solids: n/a
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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	92%		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.

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

4.6
4

Report of Analysis

Client Sample ID: BPOW2-3 Lab Sample ID: JD6330-7 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/21/20 Date Received: 04/22/20 Percent Solids: n/a
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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	94%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
1066-40-6	Silanol, trimethyl-	0.16	2.5	ug/l	JN R
	Total TIC, Volatile		2.5	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 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

4.7
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6330X
 Lab Sample ID: 510009003

 Client ID: BPOW2-1
 Batch ID: 1995282
 Run Date: 05/09/2020 00:07
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0845.D

Date Collected: 04/21/2020 10:07
 Date Received: 04/23/2020 09:20
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rtx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		0.559	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6330X
 Lab Sample ID: 510009004

 Client ID: BPOW2-2
 Batch ID: 1995282
 Run Date: 05/09/2020 00:31
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0846.D

Date Collected: 04/21/2020 11:25
 Date Received: 04/23/2020 09:20
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		0.513	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6330X
 Lab Sample ID: 510009005

 Client ID: BPOW2-3
 Batch ID: 1995282
 Run Date: 05/09/2020 00:55
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0847.D

Date Collected: 04/21/2020 11:57
 Date Received: 04/23/2020 09:20
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		3.04	ug/L	0.0400	0.0800	0.200

2

Report of Analysis

Client Sample ID: BPOW3-2		Date Sampled: 04/23/20
Lab Sample ID: JD6452-6		Date Received: 04/24/20
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
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	95%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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

Report of Analysis

Client Sample ID: BPOW3-1		Date Sampled: 04/23/20
Lab Sample ID: JD6452-7		Date Received: 04/24/20
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
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	92%		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-	9.15	2.6	ug/l	JN
	Total TIC, Volatile		2.6	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 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

4.7
4

Report of Analysis

Client Sample ID: TB042320BW1		Date Sampled: 04/23/20
Lab Sample ID: JD6452-8		Date Received: 04/24/20
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
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	96%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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

4.8
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6452X
 Lab Sample ID: 510215005

 Client ID: BPOW3-1
 Batch ID: 1995282
 Run Date: 05/09/2020 06:10
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0860.D

Date Collected: 04/23/2020 15:05
 Date Received: 04/28/2020 08:45
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		0.541	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6452X
 Lab Sample ID: 510215006

 Client ID: BPOW3-2
 Batch ID: 1995282
 Run Date: 05/09/2020 06:36
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0861.D

Date Collected: 04/23/2020 16:05
 Date Received: 04/28/2020 08:45
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		2.66	ug/L	0.0400	0.0800	0.200

2

Report of Analysis

Client Sample ID: TB042120BW1	Date Sampled: 04/21/20
Lab Sample ID: JD6330-2	Date Received: 04/22/20
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
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	91%		70-130%
460-00-4	4-Bromofluorobenzene	90%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
1066-40-6	Silanol, trimethyl-	9.16	25	ug/l	JN
109-99-9	Furan, tetrahydro-	9.81	.55	ug/l	JN
	Total TIC, Volatile		25.55	ug/l	JN

(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

4.2
4

Report of Analysis

Client Sample ID: BPOW3-3	Date Sampled: 04/21/20
Lab Sample ID: JD6330-3	Date Received: 04/22/20
Matrix: AQ - Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
Project: Navy Wells OU2, Bethpage, NY	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B123219.D	1	04/27/20 14:47	BK	n/a	n/a	V1B5969
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	0.34	1.0	0.34	ug/l	J
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

4.3
 4

Report of Analysis

Client Sample ID: BPOW3-3	Date Sampled: 04/21/20
Lab Sample ID: JD6330-3	Date Received: 04/22/20
Matrix: AQ - Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
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	93%		70-130%
460-00-4	4-Bromofluorobenzene	91%		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

Report of Analysis

Client Sample ID: BPOW3-4		Date Sampled: 04/21/20
Lab Sample ID: JD6330-4		Date Received: 04/22/20
Matrix: AQ - Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Navy Wells OU2, Bethpage, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B123220.D	1	04/27/20 15:18	BK	n/a	n/a	V1B5969
Run #2 ^a	1B123247.D	10	04/28/20 15:40	BK	n/a	n/a	V1B5970

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

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	0.87	0.50	0.17	ug/l	
74-87-3	Chloromethane	ND	0.50	0.13	ug/l	
56-23-5	Carbon tetrachloride	2.0	0.50	0.24	ug/l	
75-34-3	1,1-Dichloroethane	0.48	0.50	0.22	ug/l	J
75-35-4	1,1-Dichloroethylene	3.7	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	1.9	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.16	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.18	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.076	ug/l	
76-13-1	Freon 113	3.7	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	0.34	0.50	0.22	ug/l	J
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.13	ug/l	
79-00-5	1,1,2-Trichloroethane	1.2	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

4.4
4

Report of Analysis

Client Sample ID: BPOW3-4		Date Sampled: 04/21/20
Lab Sample ID: JD6330-4		Date Received: 04/22/20
Matrix: AQ - Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Navy Wells OU2, Bethpage, NY		

VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	171 ^b	5.0	2.0	ug/l	D
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	97%	93%	70-130%
460-00-4	4-Bromofluorobenzene	95%	89%	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) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
 RL = Reporting Limit

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

4.4
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6330X
 Lab Sample ID: 510009001

 Client ID: BPOW3-3
 Batch ID: 1995282
 Run Date: 05/08/2020 23:19
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0843.D

Date Collected: 04/21/2020 11:22
 Date Received: 04/23/2020 09:20
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		7.33	ug/L	0.0400	0.0800	0.200

2

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6330X
 Lab Sample ID: 510009002

 Client ID: BPOW3-4
 Batch ID: 1995282
 Run Date: 05/08/2020 23:43
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0844.D

Date Collected: 04/21/2020 11:50
 Date Received: 04/23/2020 09:20
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		5.87	ug/L	0.0400	0.0800	0.200

2

Report of Analysis

Client Sample ID: BPOW4-1R Lab Sample ID: JD6452-5 Matrix: AQ - Ground Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/23/20 Date Received: 04/24/20 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	1.4	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	97%		70-130%
460-00-4	4-Bromofluorobenzene	90%		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

4.5
4

Report of Analysis

Client Sample ID: TB042320BW1	Date Sampled: 04/23/20
Lab Sample ID: JD6452-8	Date Received: 04/24/20
Matrix: AQ - Trip Blank Water	Percent Solids: n/a
Method: EPA 524.2 REV 4.1	
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	96%		70-130%
460-00-4	4-Bromofluorobenzene	89%		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

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6452X
 Lab Sample ID: 510215004

 Client ID: BPOW4-1R
 Batch ID: 1995282
 Run Date: 05/09/2020 04:56
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0857.D

Date Collected: 04/23/2020 10:57
 Date Received: 04/28/2020 08:45
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		3.43	ug/L	0.0400	0.0800	0.200

2

Report of Analysis

Client Sample ID: TB042220BW1		Date Sampled: 04/22/20
Lab Sample ID: JD6389-1		Date Received: 04/23/20
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
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	93%		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.

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

4.1
4

Report of Analysis

Client Sample ID: BPOW4-2R		Date Sampled: 04/22/20
Lab Sample ID: JD6389-4		Date Received: 04/23/20
Matrix: AQ - Water		Percent Solids: n/a
Method: EPA 524.2 REV 4.1		
Project: Navy Wells OU2, Bethpage, NY		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	1B123254.D	1	04/28/20 19:18	BK	n/a	n/a	V1B5970
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	0.28	0.50	0.24	ug/l	J
75-34-3	1,1-Dichloroethane	ND	0.50	0.22	ug/l	
75-35-4	1,1-Dichloroethylene	0.59	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	0.21	0.50	0.14	ug/l	J
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	28.1	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	0.67	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

4.4
4

Report of Analysis

Client Sample ID: BPOW4-2R Lab Sample ID: JD6389-4 Matrix: AQ - Water Method: EPA 524.2 REV 4.1 Project: Navy Wells OU2, Bethpage, NY	Date Sampled: 04/22/20 Date Received: 04/23/20 Percent Solids: n/a
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VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	2.8	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	96%		70-130%
460-00-4	4-Bromofluorobenzene	87%		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

4.4
4

**Semi-Volatile
Certificate of Analysis
Sample Summary**

SDG Number: JD6389X
 Lab Sample ID: 510065002

 Client ID: BPOW4-2R
 Batch ID: 1995282
 Run Date: 05/09/2020 01:44
 Prep Date: 05/08/2020 07:30
 Data File: s050820.B\s6e0849.D

Date Collected: 04/22/2020 13:27
 Date Received: 04/24/2020 08:30
 Client: ACTL003
 Method: EPA 522
 Inst: MSD6.I
 Analyst: JMB3
 Aliquot: 100 mL
 Rx-624

Matrix: WATER

 Project: ACTL00316
 SOP Ref: GL-OA-E-073
 Dilution: 1
 Inj. Vol: 1 uL
 Final Volume: 2 mL

CAS No.	Parname	Qualifier	Result	Units	MDL	LOD	LOQ
123-91-1	1,4-Dioxane		2.14	ug/L	0.0400	0.0800	0.200

2