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**Subject:** Form 1's - BPOW5-3, 5-4, 5-7 2Q 2017  
**Date:** Monday, July 17, 2017 2:57:52 PM  
**Attachments:** [Form 1s -BPOW 5-3,5-4,5-7 071417.pdf](#)

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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. On behalf of the Navy, please find attached the **Form 1** validated data for **Second Quarter 2017** from the following outpost wells: **BPOW 5-3, 5-4 and 5-7**. Form 1 data includes both VOCs and 1,4-dioxane results. Samples from these wells were collected between 5/11/17 and 5/16/17.

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## Report of Analysis

Client Sample ID: BPOW 5-4	Date Sampled: 05/12/17
Lab Sample ID: JC43282-1	Date Received: 05/12/17
Matrix: AQ - Ground 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 <sup>a</sup>	1B109481.D	1	05/17/17 23:18	BK	n/a	n/a	V1B5210
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	3.8	ug/l	
78-93-3	2-Butanone	ND	5.0	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.36	ug/l	
75-25-2	Bromoform	ND	0.50	0.40	ug/l	
74-83-9	Bromomethane	ND	0.50	0.081	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.39	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.27	ug/l	
75-00-3	Chloroethane	ND	0.50	0.071	ug/l	
67-66-3	Chloroform	ND	0.50	0.33	ug/l	
74-87-3	Chloromethane	ND	0.50	0.39	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.28	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.094	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.098	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.25	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.26	ug/l	
76-13-1	Freon 113	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	2.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	1.5	ug/l	
100-42-5	Styrene	ND	0.50	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.099	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.12	ug/l	
108-88-3	Toluene	ND	0.50	0.13	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

<b>Client Sample ID:</b> BPOW 5-4 <b>Lab Sample ID:</b> JC43282-1 <b>Matrix:</b> AQ - Ground Water <b>Method:</b> EPA 524.2 REV 4.1 <b>Project:</b> Navy Wells, OU2, Bethpage, NY	<b>Date Sampled:</b> 05/12/17 <b>Date Received:</b> 05/12/17 <b>Percent Solids:</b> 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	0.11	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	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	82%		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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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:	TB051217AR1	Date Sampled:	05/12/17
Lab Sample ID:	JC43282-2	Date Received:	05/12/17
Matrix:	AQ - Trip Blank 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 <sup>a</sup>	1B109482.D	1	05/17/17 23:49	BK	n/a	n/a	V1B5210
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	3.8	ug/l	
78-93-3	2-Butanone	ND	5.0	2.5	ug/l	
71-43-2	Benzene	ND	0.50	0.26	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.36	ug/l	
75-25-2	Bromoform	ND	0.50	0.40	ug/l	
74-83-9	Bromomethane	ND	0.50	0.081	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.39	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.27	ug/l	
75-00-3	Chloroethane	ND	0.50	0.071	ug/l	
67-66-3	Chloroform	ND	0.50	0.33	ug/l	
74-87-3	Chloromethane	ND	0.50	0.39	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.13	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.13	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.23	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.28	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.29	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.094	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.098	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.26	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.25	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.26	ug/l	
76-13-1	Freon 113	ND	1.0	0.27	ug/l	
591-78-6	2-Hexanone	ND	2.0	1.3	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.37	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	1.5	ug/l	
100-42-5	Styrene	ND	0.50	0.21	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.12	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.099	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.12	ug/l	
108-88-3	Toluene	ND	0.50	0.13	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

<b>Client Sample ID:</b> TB051217AR1 <b>Lab Sample ID:</b> JC43282-2 <b>Matrix:</b> AQ - Trip Blank Water <b>Method:</b> EPA 524.2 REV 4.1 <b>Project:</b> Navy Wells, OU2, Bethpage, NY	<b>Date Sampled:</b> 05/12/17 <b>Date Received:</b> 05/12/17 <b>Percent Solids:</b> 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	0.11	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	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	80%		70-130%		
CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q	
109-99-9	Furan, tetrahydro-	10.47	1.3	ug/l	JN	
	Total TIC, Volatile		1.3	ug/l	JN	

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

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

SDG Number: JC43282X  
 Lab Sample ID: 423199001  
  
 Client ID: BPOW 5-4  
 Batch ID: 1665630  
 Run Date: 05/19/2017 15:25  
 Prep Date: 05/19/2017 11:45  
 Data File: s051917.B\s6e1910.D

Date Collected: 05/12/2017 12:18  
 Date Received: 05/16/2017 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		1.12	ug/L	0.100	0.100	0.200

2



## Report of Analysis

<b>Client Sample ID:</b> BPOW 5-3		<b>Date Sampled:</b> 05/15/17
<b>Lab Sample ID:</b> JC43448-1		<b>Date Received:</b> 05/16/17
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 524.2 REV 4.1		
<b>Project:</b> Navy Wells, OU2, Bethpage, NY		

### VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.11	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	102%		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





## Report of Analysis

<b>Client Sample ID:</b> TB051517AR1		<b>Date Sampled:</b> 05/15/17
<b>Lab Sample ID:</b> JC43448-2		<b>Date Received:</b> 05/16/17
<b>Matrix:</b> AQ - Trip Blank Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 524.2 REV 4.1		
<b>Project:</b> Navy Wells, OU2, Bethpage, NY		

### VOA OU2 Outpost List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.11	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	103%		70-130%
460-00-4	4-Bromofluorobenzene	91%		70-130%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-99-9	Furan, tetrahydro-	10.47	1.2	ug/l	JN
	Total TIC, Volatile		1.2	ug/l	J <span style="color: red;">N</span>

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

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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

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

SDG Number: JC43446X  
 Lab Sample ID: 423480001  
  
 Client ID: BPOW 5-3  
 Batch ID: 1667329  
 Run Date: 06/06/2017 15:17  
 Prep Date: 06/06/2017 09:22  
 Data File: s060617.B\s6f0605.D

Date Collected: 05/15/2017 14:40  
 Date Received: 05/18/2017 09:00  
 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		1.28	ug/L	0.100	0.100	0.200

2



## Report of Analysis

<b>Client Sample ID:</b> BPOW 5-7		<b>Date Sampled:</b> 05/16/17
<b>Lab Sample ID:</b> JC43570-1		<b>Date Received:</b> 05/17/17
<b>Matrix:</b> AQ - Ground Water		<b>Percent Solids:</b> n/a
<b>Method:</b> EPA 524.2 REV 4.1		
<b>Project:</b> Navy Wells, OU2, Bethpage, NY		

**VOA OU2 Outpost List**

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethylene	ND	0.50	0.11	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	103%		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.

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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

<b>Client Sample ID:</b> TB051617AR1 <b>Lab Sample ID:</b> JC43570-2 <b>Matrix:</b> AQ - Trip Blank Water <b>Method:</b> EPA 524.2 REV 4.1 <b>Project:</b> Navy Wells, OU2, Bethpage, NY	<b>Date Sampled:</b> 05/16/17 <b>Date Received:</b> 05/17/17 <b>Percent Solids:</b> 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	0.11	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.056	ug/l	
	m,p-Xylene	ND	0.50	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.24	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	88%		70-130%

  

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
109-99-9	Furan, tetrahydro-	10.48	1.3	ug/l	JNB
	Total TIC, Volatile		<del>0</del> 1.3	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

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

SDG Number: JC43570X  
 Lab Sample ID: 423719001  
 Client Sample: 1X  
 Client ID: BPOW 5-7  
 Batch ID: 1667329  
 Run Date: 06/06/2017 16:33  
 Prep Date: 06/06/2017 09:22  
 Data File: s060617.B\s6f0608.D

Date Collected: 05/16/2017 15:50  
 Date Received: 05/20/2017 08:55  
 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	0.100	ug/L	0.100	0.100	0.200

2