

## Pelton, Jason M (DEC)

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**From:** Brian Caldwell <bcaldwell@Ensafe.com>  
**Sent:** Monday, August 27, 2018 3:47 PM  
**To:** Pelton, Jason M (DEC); Hesler, Donald (DEC); Karpinski, Steven (HEALTH); Lovejoy, John (NASSAU); thantu.lorenzo@epa.gov; Garbarini.Doug@epa.gov  
**Cc:** Murray, Brian S CIV NAVFAC MIDLANT, IPTNORTH; Fly, Lora B CIV NAVFAC MIDLANT, IPTNE (lora.fly@navy.mil)  
**Subject:** Bethpage OU2 - Q2 2018 Form 1 Results - RE116D1 and TT102 Cluster Monitoring Wells  
**Attachments:** Form 1\_sample RE116D1.pdf; TT well Form 1s\_May2018\_Katahdin.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 validated Form 1 pdfs for the 2Q 2018 Quarterly groundwater sampling for wells RE116D1 and the TT102 well cluster. This sampling and analyses was performed by Arcadis on behalf of the Navy.

Form 1 data includes both VOCs and 1,4-dioxane results.

**Samples were collected between 5/29/18 and 6/1/18.**

### **Brian Caldwell, PG CPG**

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## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4778-1  
**Client ID:** TB052918DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** P6069.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 31-MAY-18  
**Extracted By:** TTC  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG229354

**Analysis Date:** 31-MAY-18  
**Analyst:** TTC  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 11-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U J	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	2.0	ug/L	1	2	2.0	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	0.50	ug/L	1	.5	0.50	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 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:** SL4778-1  
**Client ID:** TB052918DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** P6069.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 31-MAY-18  
**Extracted By:** TTC  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG229354

**Analysis Date:** 31-MAY-18  
**Analyst:** TTC  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 11-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		95.9	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		106.	%				
Dibromofluoromethane		110.	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4778-2  
**Client ID:** TT102D  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** P6077.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 31-MAY-18  
**Extracted By:** TTC  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG229354

**Analysis Date:** 31-MAY-18  
**Analyst:** TTC  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 11-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U J	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	2.0	ug/L	1	2	2.0	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	0.50	ug/L	1	.5	0.50	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 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:** SL4778-2  
**Client ID:** TT102D  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** P6077.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 31-MAY-18  
**Extracted By:** TTC  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG229354

**Analysis Date:** 31-MAY-18  
**Analyst:** TTC  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 11-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		95.7	%				
Toluene-d8		101.	%				
1,2-Dichloroethane-d4		111.	%				
Dibromofluoromethane		109.	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4778-3  
**Client ID:** TT102D2  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** P6078.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 31-MAY-18  
**Extracted By:** TTC  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG229354

**Analysis Date:** 31-MAY-18  
**Analyst:** TTC  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 11-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
Chloromethane	U	1.0	ug/L	1	1	1.0	0.36
Vinyl Chloride	U	1.0	ug/L	1	1	1.0	0.25
Bromomethane	U	2.0	ug/L	1	2	2.0	0.49
Chloroethane	U	1.0	ug/L	1	1	1.0	0.55
1,1-Dichloroethene	U J	1.0	ug/L	1	1	1.0	0.35
Carbon Disulfide	U	1.0	ug/L	1	1	1.0	0.25
Freon-113	U	1.0	ug/L	1	1	1.0	0.31
Methylene Chloride	U	2.0	ug/L	1	2	2.0	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	0.50	ug/L	1	.5	0.50	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 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:** SL4778-3  
**Client ID:** TT102D2  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** P6078.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 31-MAY-18  
**Extracted By:** TTC  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG229354

**Analysis Date:** 31-MAY-18  
**Analyst:** TTC  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 11-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		97.8	%				
Toluene-d8		104.	%				
1,2-Dichloroethane-d4		116.	%				
Dibromofluoromethane		113.	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4778-2  
**Client ID:** TT102D  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** G3306.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 05-JUN-18  
**Extracted By:** KF  
**Extraction Method:** SW846 3520C  
**Lab Prep Batch:** WG229718

**Analysis Date:** 08-JUN-18  
**Analyst:** JCG  
**Analysis Method:** SW846 8270D SIM  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 12-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.25	ug/L	1	.25	0.25	0.084
1,4-Dioxane-D8		71.1	%				



## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4778-3  
**Client ID:** TT102D2  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4778  
**Lab File ID:** G3307.D

**Sample Date:** 29-MAY-18  
**Received Date:** 30-MAY-18  
**Extract Date:** 05-JUN-18  
**Extracted By:** KF  
**Extraction Method:** SW846 3520C  
**Lab Prep Batch:** WG229718

**Analysis Date:** 08-JUN-18  
**Analyst:** JCG  
**Analysis Method:** SW846 8270D SIM  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 12-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		0.61	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		61.0	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4913-1  
**Client ID:** TB060118DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** P6353.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 09-JUN-18  
**Extracted By:** HG  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG230075

**Analysis Date:** 09-JUN-18  
**Analyst:** HG  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 18-JUN-18

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	2.0	ug/L	1	2	2.0	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	0.50	ug/L	1	.5	0.50	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:** SL4913-1  
**Client ID:** TB060118DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** P6353.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 09-JUN-18  
**Extracted By:** HG  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG230075

**Analysis Date:** 09-JUN-18  
**Analyst:** HG  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 18-JUN-18

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		96.9	%				
Toluene-d8		99.7	%				
1,2-Dichloroethane-d4		116.	%				
Dibromofluoromethane		112.	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4913-2  
**Client ID:** FB060118DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** P6355.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 09-JUN-18  
**Extracted By:** HG  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG230075

**Analysis Date:** 09-JUN-18  
**Analyst:** HG  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 18-JUN-18

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	2.0	ug/L	1	2	2.0	1.1
<b>Acetone</b>		13	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	0.50	ug/L	1	.5	0.50	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:** SL4913-2  
**Client ID:** FB060118DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** P6355.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 09-JUN-18  
**Extracted By:** HG  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG230075

**Analysis Date:** 09-JUN-18  
**Analyst:** HG  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 18-JUN-18

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		99.1	%				
Toluene-d8		102.	%				
1,2-Dichloroethane-d4		125.	%				
Dibromofluoromethane		113.	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4913-3  
**Client ID:** RE116D1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** P6360.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 09-JUN-18  
**Extracted By:** HG  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG230075

**Analysis Date:** 09-JUN-18  
**Analyst:** HG  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 18-JUN-18

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	2.0	ug/L	1	2	2.0	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	0.50	ug/L	1	.5	0.50	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
<b>Toluene</b>	J	0.54	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:** SL4913-3  
**Client ID:** RE116D1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** P6360.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 09-JUN-18  
**Extracted By:** HG  
**Extraction Method:** SW846 5030  
**Lab Prep Batch:** WG230075

**Analysis Date:** 09-JUN-18  
**Analyst:** HG  
**Analysis Method:** SW846 8260C  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 18-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,1,2,2-Tetrachloroethane	U	1.0	ug/L	1	1	1.0	0.38
P-Bromofluorobenzene		97.8	%				
Toluene-d8		99.6	%				
1,2-Dichloroethane-d4		120.	%				
Dibromofluoromethane		111.	%				

## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4913-2  
**Client ID:** FB060118DC1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** G3321.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 05-JUN-18  
**Extracted By:** KF  
**Extraction Method:** SW846 3520C  
**Lab Prep Batch:** WG229718

**Analysis Date:** 08-JUN-18  
**Analyst:** JCG  
**Analysis Method:** SW846 8270D SIM  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 15-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane	U	0.26	ug/L	1	.25	0.26	0.088
1,4-Dioxane-D8		59.0	%				



## Report of Analytical Results

**Client:** ARCADIS  
**Lab ID:** SL4913-3  
**Client ID:** RE116D1  
**Project:** Navy Wells-OU2 Groundwater Sampling  
**SDG:** SL4913  
**Lab File ID:** G3322.D

**Sample Date:** 01-JUN-18  
**Received Date:** 02-JUN-18  
**Extract Date:** 05-JUN-18  
**Extracted By:** KF  
**Extraction Method:** SW846 3520C  
**Lab Prep Batch:** WG229718

**Analysis Date:** 08-JUN-18  
**Analyst:** JCG  
**Analysis Method:** SW846 8270D SIM  
**Matrix:** AQ  
**% Solids:** NA  
**Report Date:** 15-JUN-18

Compound	Qualifier	Result	Units	Dilution	PQL	ADJ PQL	ADJ MDL
1,4-Dioxane		4.7	ug/L	1	.25	0.24	0.080
1,4-Dioxane-D8		52.3	%				