

Scharf, Steven (DEC)

From: Brian Caldwell <bcaldwell@Ensafec.com>
Sent: Wednesday, April 20, 2016 10:02 AM
To: Wilkie, Henry (DEC); Scharf, Steven (DEC); Karpinski, Steven (HEALTH); DeFranco, Joseph (NASSAU)
Cc: Bethoney, Charlotte (HEALTH); Fly, Lora B CIV NAVFAC MIDLANT, IPTNORTH; mboufis@bethpagewater.com; pschimmel@bethpagewater.com; Allan Jenkins
Subject: BWD Pilot Study Week #4 lab results
Attachments: pl 6 voc 4 15 16.pdf; samples 1 4 dioxane 4 15 16.pdf

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All –

On behalf of the Navy, please find attached the analytical results for the BWD Pilot Study week #4. Only well 6-1 was pumped during week 4.

Regards,

Brian

*Brian Caldwell, PG CPG
EnSafe/Resolution Consultants
Senior Hydrogeologist
308 North Peters Road, Suite 200
Knoxville TN 37922
Office: (865) 693-3623
Cell: (865) 803-6295*



Sample Information:

Type : Potable Water
 Origin: Raw Well
 Routine

LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Bethpage Water District
25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No N-03876

Received : 04/15/2016 10:56 AM Location: Well 6-1

Collected By : PS99

Lab No. : 1604E54-001

Client Sample ID. : N-03876

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/19/2016



Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Sample Information:

Type : Potable Water

Origin: Raw Well

Routine

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25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No N-03876

Received : 04/15/2016 10:56 AM Location: Well 6-1

Collected By : PS99

Lab No. : 1604E54-001

Client Sample ID. : N-03876

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 0.50		1	µg/L		04/18/2016 10:14 PM	Container-01 of 02
Bromoform	< 0.50		1	µg/L		04/18/2016 10:14 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Chloroform	< 0.50		1	µg/L		04/18/2016 10:14 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/18/2016 10:14 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/18/2016 10:14 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
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 r = Reporting limit below calibration range. Value estimated.
 S = Recovery outside of control limits for this analyte
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 Date Reported : 4/19/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

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Sample Information:

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 Origin: Raw Well
 Routine

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25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No N-03876

Received : 04/15/2016 10:56 AM Location: Well 6-1

Collected By : PS99

Lab No. : 1604E54-001

Client Sample ID. : N-03876

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
tert-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Tetrachloroethene	3.33		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Toluene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/18/2016 10:14 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Trichloroethene	* 38.9	*	1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/18/2016 10:14 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/18/2016 10:14 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	93.2		1	%Rec	Limit 70-130	04/18/2016 10:14 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	85.0		1	%Rec	Limit 70-130	04/18/2016 10:14 PM	Container-01 of 02

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Stu Murrell
 Sr. Project Manager : Stu Murrell

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LABORATORY RESULTS

Sample Information:

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Origin: Raw Well

Routine

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25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No N-08941

Received : 04/15/2016 10:56 AM Location: Well 6-2

Collected By : PS99

Lab No. : 1604E54-002

Client Sample ID. : N-08941

Analytical Method: E524.2 : POC

Analyst: Main

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,1-Dichloroethane	1.01		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02

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Stu Murrell
 Sr. Project Manager : Stu Murrell

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Sample Information:

Type : Potable Water
 Origin: Raw Well
 Routine

LABORATORY RESULTS

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Bethpage Water District
25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No N-08941

Received : 04/15/2016 10:56 AM Location: Well 6-2

Collected By : PS99

Lab No. : 1604E54-002

Client Sample ID. : N-08941

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 0.50		1	µg/L		04/18/2016 10:39 PM	Container-01 of 02
Bromoform	< 0.50		1	µg/L		04/18/2016 10:39 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Carbon tetrachloride	0.82		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Chloroform	0.80		1	µg/L		04/18/2016 10:39 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
cis-1,2-Dichloroethene	1.58		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/18/2016 10:39 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/18/2016 10:39 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02

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Collected By : PS99

Lab No. : 1604E54-002

Client Sample ID. : N-08941

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
tert-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Tetrachloroethene	0.95		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Toluene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/18/2016 10:39 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Trichloroethene	* 571	D*	25	µg/L	5	04/19/2016 9:25 AM	Container-02 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/18/2016 10:39 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/18/2016 10:39 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	91.6		1	%Rec	Limit 70-130	04/18/2016 10:39 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	86.0		1	%Rec	Limit 70-130	04/18/2016 10:39 PM	Container-01 of 02

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LABORATORY RESULTS

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 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type : Potable Water
 Origin: Treated Well
 Routine

Treatment

Treated-GAC

Bethpage Water District
25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No ASGAC-6-16-2

Received : 04/15/2016 10:56 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1604E54-003

Client Sample ID. : ASGAC-6-16-2

Analytical Method: E524.2 : POC

Analyst: Main

Parameter(s)	Results	Qualifier	D.F.	Units	Limit	Analyzed:	Container:
1,1,1,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
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 D.F. = Dilution Factor D = Results for Dilution
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated
 H = Received/analyzed outside of analytical holding time
 J = Estimated value - below calibration range
 M-, M+ = Matrix Spike recovery below / above control limit
 N = Indicates presumptive evidence of compound
 P = Duplicate RPD outside of control limit
 r = Reporting limit below calibration range. Value estimated.
 S = Recovery outside of control limits for this analyte
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 Date Reported : 4/19/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results are only for the samples and analytes requested.
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type : Potable Water
 Origin: Treated Well
 Routine

Treatment

Treated-GAC

Bethpage Water District
25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No ASGAC-6-16-2

Received : 04/15/2016 10:56 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1604E54-003

Client Sample ID. : ASGAC-6-16-2

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
Bromodichloromethane	< 0.50		1	µg/L		04/18/2016 9:49 PM	Container-01 of 02
Bromoform	< 0.50		1	µg/L		04/18/2016 9:49 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Chloroform	< 0.50		1	µg/L		04/18/2016 9:49 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		04/18/2016 9:49 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	04/18/2016 9:49 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated
 H = Received/analyzed outside of analytical holding time
 J = Estimated value - below calibration range
 M-, M+ = Matrix Spike recovery below / above control limit
 N = Indicates presumptive evidence of compound
 P = Duplicate RPD outside of control limit
 r = Reporting limit below calibration range. Value estimated.
 S = Recovery outside of control limits for this analyte
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 Date Reported : 4/19/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results are only for the samples and analytes requested.

The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type : Potable Water
Origin: Treated Well
Routine

Treatment

Treated-GAC

**Bethpage Water District
25 Adams Ave.**

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No ASGAC-6-16-2

Received : 04/15/2016 10:56 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1604E54-003

Client Sample ID. : ASGAC-6-16-2

Analytical Method: E524.2 : POC

Analyst: Main

<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
tert-Butylbenzene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Tetrachloroethene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Toluene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	04/18/2016 9:49 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Trichloroethene	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	04/18/2016 9:49 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	04/18/2016 9:49 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	87.8		1	%Rec	Limit 70-130	04/18/2016 9:49 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	80.6		1	%Rec	Limit 70-130	04/18/2016 9:49 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/19/2016

Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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PACE ANALYTICAL
 575 Broad Hollow Road
 Melville, NY 11747
 TEL: (631) 694-3040 FAX: (631) 420-8436
 Website: www.pacelabs.com

Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **4/15/2016 10:56:00 AM**

Work Order Number: **1604E54**

RcptNo: **1**

Received by **Linda Siciliano**

Completed by:

Reviewed by:

Completed Date: 4/15/2016 11:52:25 AM

Reviewed Date: 4/15/2016 2:52:01 PM

Carrier name: Client

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Are matrices correctly identified on Chain of custody? Yes No
- Is it clear what analyses were requested? Yes No
- Custody seals intact on sample bottles? Yes No Not Present
- Samples in proper container/bottle? Yes No
- Were correct preservatives used and noted? Yes No NA
- Preservative added to bottles:
- Sample Condition? Intact Broken Leaking
- Sufficient sample volume for indicated test? Yes No
- Were container labels complete (ID, Pres, Date)? Yes No
- All samples received within holding time? Yes No
- Was an attempt made to cool the samples? Yes No NA
- All samples received at a temp. of > 0° C to 6.0° C? Yes No NA
- Response when temperature is outside of range: Samples were collected the same day and chilled.
- Sample Temp. taken and recorded upon receipt? Yes No To 14.9 °
- Water - Were bubbles absent in VOC vials? Yes No No Vials
- Water - Was there Chlorine Present? Yes No NA
- Water - pH acceptable upon receipt? Yes No No Water
- Are Samples considered acceptable? Yes No
- Custody Seals present? Yes No
- Airbill or Sticker? Air Bil Sticker Not Present

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:

Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

WorkOrder :
1604E54

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350



Sample Information:

Type : Potable Water
 Origin: Raw Well
 Special

LABORATORY RESULTS

Results are only for the samples and analytes requested.

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Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1604E53-001
Client Sample ID. : N-03876

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No: N-03876

Received : 04/15/2016 10:56 AM Location: Well 6-1

Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/15/2016 1:03:36 PM	<u>Analyst:</u> SH		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane	12	D +	5	µg/L		04/18/2016 3:28 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	105		1	%Rec	Limit 70-130	04/17/2016 12:08 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/19/2016

Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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Sample Information:

Type : Potable Water
 Origin: Raw Well
 Special

LABORATORY RESULTS

Results are only for the samples and analytes requested.

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Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1604E53-002
Client Sample ID. : N-08941

Attn To : Michael Boufis
 Federal ID : 2902817
 Collected : 04/15/2016 10:30 AM Point No: N-08941
 Received : 04/15/2016 10:56 AM Location: Well 6-2
 Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522				<u>Prep Date:</u> 4/15/2016 1:03:36 PM	<u>Analyst:</u> SH	
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane	7.3	D +	5	µg/L		04/17/2016 2:10 AM	Container-01 of 02
Surr: 1,4-Dioxane-D8	93.3		1	%Rec	Limit 70-130	04/17/2016 12:32 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
 D.F. = Dilution Factor D = Results for Dilution
 c = Calibration acceptability criteria exceeded for this analyte. Value estimated
 H = Received/analyzed outside of analytical holding time
 J = Estimated value - below calibration range
 M-, M+ = Matrix Spike recovery below / above control limit
 N = Indicates presumptive evidence of compound
 P = Duplicate RPD outside of control limit
 r = Reporting limit below calibration range. Value estimated.
 S = Recovery outside of control limits for this analyte
 + = NYSDOH ELAP does not offer certification for this analyte / matrix / method
 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 Date Reported : 4/19/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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LABORATORY RESULTS

Results are only for the samples and analytes requested.
 The lab is not directly responsible for the integrity of the sample before receipt at the lab and is responsible only for the tests requested.

Sample Information:

Type : Potable Water
 Origin: Treated Well
 Special

Treatment

Treated-GAC

Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1604E53-003
Client Sample ID. : ASGAC-6-16-2

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 04/15/2016 10:30 AM Point No: ASGAC-6-16-2

Received : 04/15/2016 10:56 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522			<u>Prep Date:</u> 4/15/2016 1:03:36 PM	<u>Analyst:</u> SH		
<u>Parameter(s)</u>	<u>Results</u>	<u>Qualifier</u>	<u>D.F.</u>	<u>Units</u>	<u>Limit</u>	<u>Analyzed:</u>	<u>Container:</u>
1,4-Dioxane	12	D +	5	µg/L		04/17/2016 2:35 AM	Container-01 of 02
Surr: 1,4-Dioxane-D8	98.2		1	%Rec	Limit 70-130	04/17/2016 12:57 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.

B = Found in Blank

D.F. = Dilution Factor D = Results for Dilution

c = Calibration acceptability criteria exceeded for this analyte. Value estimated

H = Received/analyzed outside of analytical holding time

J = Estimated value - below calibration range

M-, M+ = Matrix Spike recovery below / above control limit

N = Indicates presumptive evidence of compound

P = Duplicate RPD outside of control limit

r = Reporting limit below calibration range. Value estimated.

S = Recovery outside of control limits for this analyte

+ = NYSDOH ELAP does not offer certification for this analyte / matrix / method

Result(s) reported meet(s) NYS Regulatory Limit(s).

Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.

Date Reported : 4/19/2016

Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **4/15/2016 10:56:00 AM**

Work Order Number: **1604E53**

RcptNo: **1**

Received by: **Linda Siciliano**

Completed by: *John State*

Reviewed by: *Stu Murrell*

Completed Date: 4/15/2016 11:50:31 AM

Reviewed Date: 4/15/2016 2:47:43 PM

Carrier name: Client

- | | | | | |
|---|--|--|---|--|
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Are matrices correctly identified on Chain of custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Were correct preservatives used and noted? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> | |
| Preservative added to bottles: | | | | |
| Sample Condition? | Intact <input checked="" type="checkbox"/> | Broken <input type="checkbox"/> | Leaking <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Were container labels complete (ID, Pres, Date)? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> | |
| All samples received at a temp. of > 0° C to 6.0° C? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | NA <input type="checkbox"/> | |
| Response when temperature is outside of range: | Samples were collected the same day and chilled. | | | |
| Sample Temp. taken and recorded upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | To 14.9° | |
| Water - Were bubbles absent in VOC vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No Vials <input checked="" type="checkbox"/> | |
| Water - Was there Chlorine Present? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | NA <input checked="" type="checkbox"/> | |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No Water <input type="checkbox"/> | |
| Are Samples considered acceptable? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | | |
| Custody Seals present? | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | | |
| Airbill or Sticker? | Air Bill <input type="checkbox"/> | Sticker <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> | |

Airbill No:

Case Number:

SDG:

SAS:

Any No response should be detailed in the comments section below, if applicable.

Client Contacted? Yes No NA Person Contacted:

Contact Mode: Phone: Fax: Email: In Person:

Client Instructions:

Date Contacted: Contacted By:

Regarding:

Comments:

CorrectiveAction:

WorkOrder :
1604E53

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MASSACHUSETTS	M-NY026
NEW HAMPSHIRE	2987
RHODE ISLAND	LAO00340
PENNSYLVANIA	68-00350