



RESOLUTION CONSULTANTS

To: Lora Fly, DON, NAVFAC MIDLANT

From: Brian Caldwell, P.G., Resolution Consultants

Subject: Week #1 Summary, Bethpage Water District Well 6-2 Pilot Test — NWIRP
Bethpage

Date: 30 March 2016

Week #1 Summary

The BWD Pilot Test began with groundwater pumping at well 6-2 on Monday, March 21; pumping times, interval flow rates, interval total gallons, and daily gallons pumped are provided in the following table.

Date	Well 6-2 Time on	Well 6-2 Time Off	Well 6-2 Hours Run	Flow Rate (gpm)	Interval Pumpage (K Gal)	Daily Pumpage (K Gal)
3/21/2016	6:30	24:00:00	17:30	1152	1209.60	1209.60
3/22/2016	0:01	24:00:00	23:59	1151	1656.29	1657.44
3/23/2016	0:01	24:00:00	23:59	1152	1657.73	1657.73
3/24/2016	0:01	24:00:00	23:59	1148	1651.97	1651.97
3/25/2016	0:00	10:45	10:45	1154	744.33	744.33
3/26/2016	off	--	--	--	--	--
3/27/2016	off	--	--	--	--	--
Sums =			4.175	1151.4	6919.919	6921.07
			days	ave. gpm	total gals	total gals

Well 6-1 located at Plant #6 was not operated during the above dates.

Preliminary rainfall data (daily inches) for the above dates is:

3/21/2016	0.07
3/22/2016	0
3/23/2016	0
3/24/2016	0
3/25/2016	0
3/26/2016	na
3/27/2016	na

Week #1 samples were collected on Friday, March 25. Chemicals detected in the raw water for wells 6-1 and 6-2, and the treated water used for distribution are summarized below:

Chemicals Detected 3/25/16	Well 6-1	Well 6-2	Treated Water	NYS limit
1,4-Dioxane	12	9.1	8.4	--
Carbon Tetrachloride	<0.50	1.75	<0.50	5
Chloroform	<0.50	1.39	<0.50	--
cis-1,2-Dichloroethene	<0.50	2.43	<0.50	5
Tetrachloroethene	3.54	1.99	<0.50	5
Trichloroethene	22.8	1280	<0.50	5

Exceed NYS Regulatory Limits

Laboratory reports were forwarded to Mr. Henry Wilkie of NYSDEC via email dated March 30, 2016.

Week #2

Week #2 of the Pilot Test began on Monday, March 28; pumping will be conducted at well 6-1 only for this weekly pumping cycle.



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

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No N-03876

Received : 03/25/2016 11:09 AM Location: Well 6-1

Collected By : PS99

Lab No. : 1603K37-001

Client Sample ID. : N-03876

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522				<u>Prep Date:</u> 3/28/2016 6:59:28 AM	<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		03/29/2016 3:19 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	102		1	%Rec	Limit 70-130	03/29/2016 3:53 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
 B = Found in Blank
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 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 : 3/29/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

Test results meet the requirements of NELAC unless otherwise noted.

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Received : 03/25/2016 11:09 AM Location: Well 6-1

Collected By : PS99

Lab No. : 1603K37-001

Client Sample ID. : N-03876

Analytical Method: E524.2 : POC

Analyst: KG

<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	03/28/2016 7:14 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02

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Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No N-03876

Received : 03/25/2016 11:09 AM Location: Well 6-1

Collected By : PS99

Lab No. : 1603K37-001

Client Sample ID. : N-03876

Analytical Method: E524.2 : POC

Analyst: KG

<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		03/28/2016 7:14 PM	Container-01 of 02
Bromoform	< 0.50		1	µg/L		03/28/2016 7:14 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Chloroform	< 0.50		1	µg/L		03/28/2016 7:14 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		03/28/2016 7:14 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	03/28/2016 7:14 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02

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tert-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Tetrachloroethene	3.54		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Toluene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	03/28/2016 7:14 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Trichloroethene	* 22.8	*	1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	03/28/2016 7:14 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	03/28/2016 7:14 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	101		1	%Rec	Limit 70-130	03/28/2016 7:14 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	94.4		1	%Rec	Limit 70-130	03/28/2016 7:14 PM	Container-01 of 02

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Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No N-08941

Received : 03/25/2016 11:09 AM Location: Well 6-2

Collected By : PS99

Lab No. : 1603K37-002

Client Sample ID. : N-08941

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522				<u>Prep Date:</u> 3/28/2016 6:59:28 AM	<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	9.1	D +	5	µg/L		03/29/2016 3:43 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	102		1	%Rec	Limit 70-130	03/29/2016 4:17 AM	Container-01 of 02

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Analyst: KG

<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	03/28/2016 7:39 PM	Container-01 of 02
1,1,1-Trichloroethane	0.59		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,1,2-Trichloroethane	0.65		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,1-Dichloroethane	1.53		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,1-Dichloroethene	3.34		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02

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Bromodichloromethane	< 0.50		1	µg/L		03/28/2016 7:39 PM	Container-01 of 02
Bromoform	< 0.50		1	µg/L		03/28/2016 7:39 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Carbon tetrachloride	1.75		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Chloroform	1.39		1	µg/L		03/28/2016 7:39 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
cis-1,2-Dichloroethene	2.43		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		03/28/2016 7:39 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	03/28/2016 7:39 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	03/28/2016 7:39 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 : 3/29/2016



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

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Bethpage Water District
25 Adams Ave.
Bethpage, NY 11714

Lab No. : 1603K37-002
Client Sample ID. : N-08941

Attn To : Michael Boufis
 Federal ID : 2902817
 Collected : 03/25/2016 9:40 AM Point No N-08941
 Received : 03/25/2016 11:09 AM Location: Well 6-2
 Collected By : PS99

<u>Analytical Method:</u> E524.2 : POC						<u>Analyst:</u> KG	
<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	03/28/2016 7:39 PM	Container-01 of 02
Tetrachloroethene	1.99		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Toluene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	03/28/2016 7:39 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Trichloroethene	* 1,280	D*	50	µg/L	5	03/29/2016 8:31 AM	Container-01 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	03/28/2016 7:39 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	03/28/2016 7:39 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	103		1	%Rec	Limit 70-130	03/28/2016 7:39 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	99.6		1	%Rec	Limit 70-130	03/28/2016 7:39 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
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 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 : 3/29/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

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LABORATORY RESULTS

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Sample Information:

Type : Potable Water
 Origin: Treated Well
 Special

Treatment

Treated-GAC

**Bethpage Water District
 25 Adams Ave.**

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No ASGAC-6-16-2

Received : 03/25/2016 11:09 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1603K37-003

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

<u>Analytical Method:</u> E522 :	<u>Prep Method:</u> E522				<u>Prep Date:</u> 3/28/2016 6:59:28 AM	<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	8.4	D	+	5	µg/L	03/29/2016 4:08 PM	Container-01 of 02
Surr: 1,4-Dioxane-D8	97.8			1	%Rec Limit 70-130	03/29/2016 4:41 AM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
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 H = Received/analyzed outside of analytical holding time
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Stu Murrell
 Sr. Project Manager : Stu Murrell

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Sample Information:

Type : Potable Water
 Origin: Treated Well
 Special

Treatment

Treated-GAC

**Bethpage Water District
 25 Adams Ave.**

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No ASGAC-6-16-2

Received : 03/25/2016 11:09 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1603K37-003

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

Analytical Method: E524.2 : POC

Analyst: KG

<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	03/28/2016 6:49 PM	Container-01 of 02
1,1,1-Trichloroethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,1,2,2-Tetrachloroethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,1,2-Trichloroethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,1-Dichloroethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,1-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,1-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2,3-Trichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2,3-Trichloropropane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2,4-Trichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2,4-Trimethylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2-Dichloroethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,2-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,3,5-Trimethylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,3-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,3-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
1,4-Dichlorobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
2,2-Dichloropropane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
2/4-Chlorotoluene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
4-Isopropyltoluene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Benzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Bromobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Bromochloromethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02

Qualifiers: E = Value above quantitation range, Value estimated.
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Stu Murrell
 Sr. Project Manager : Stu Murrell

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Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 Date Reported : 3/29/2016

LABORATORY RESULTS

Results are only for the samples and analytes requested.
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Sample Information:

Type : Potable Water
 Origin: Treated Well
 Special

Treatment

Treated-GAC

Bethpage Water District
25 Adams Ave.

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No ASGAC-6-16-2

Received : 03/25/2016 11:09 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1603K37-003

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

Analytical Method: E524.2 : POC

Analyst: KG

<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		03/28/2016 6:49 PM	Container-01 of 02
Bromoform	< 0.50		1	µg/L		03/28/2016 6:49 PM	Container-01 of 02
Bromomethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Carbon tetrachloride	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Chlorobenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Chloroethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Chloroform	< 0.50		1	µg/L		03/28/2016 6:49 PM	Container-01 of 02
Chloromethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
cis-1,2-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
cis-1,3-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Dibromochloromethane	< 0.50		1	µg/L		03/28/2016 6:49 PM	Container-01 of 02
Dibromomethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Dichlorodifluoromethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Ethylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Hexachlorobutadiene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Isopropylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
m,p-Xylene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Methyl tert-butyl ether	< 0.50		1	µg/L	10	03/28/2016 6:49 PM	Container-01 of 02
Methylene chloride	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
n-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
n-Propylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
o-Xylene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
sec-Butylbenzene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Styrene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02

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

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

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

Date Reported : 3/29/2016



Sr. Project Manager : Stu Murrell

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LABORATORY RESULTS

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Sample Information:

Type : Potable Water
 Origin: Treated Well
 Special

Treatment

Treated-GAC

**Bethpage Water District
 25 Adams Ave.**

Bethpage, NY 11714

Attn To : Michael Boufis

Federal ID : 2902817

Collected : 03/25/2016 9:40 AM Point No ASGAC-6-16-2

Received : 03/25/2016 11:09 AM Location: Plant 6 Airstripper/GAC

Collected By : PS99

Lab No. : 1603K37-003
Client Sample ID. : ASGAC-6-16-2

Analytical Method: E524.2 : POC

Analyst: KG

<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	03/28/2016 6:49 PM	Container-01 of 02
Tetrachloroethene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Toluene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Total Trihalomethanes	< 2.00		1	µg/L	80	03/28/2016 6:49 PM	Container-01 of 02
trans-1,2-Dichloroethene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
trans-1,3-Dichloropropene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Trichloroethene	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Trichlorofluoromethane	< 0.50		1	µg/L	5	03/28/2016 6:49 PM	Container-01 of 02
Vinyl chloride	< 0.50		1	µg/L	2	03/28/2016 6:49 PM	Container-01 of 02
Surr: 1,2-Dichlorobenzene-d4	103		1	%Rec	Limit 70-130	03/28/2016 6:49 PM	Container-01 of 02
Surr: 4-Bromofluorobenzene	97.4		1	%Rec	Limit 70-130	03/28/2016 6:49 PM	Container-01 of 02

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 Result(s) reported meet(s) NYS Regulatory Limit(s).
 Result(s) flagged with * Exceed NYS Regulatory Limit(s). Limit noted.
 Date Reported : 3/29/2016

Stu Murrell
 Sr. Project Manager : Stu Murrell

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Sample Receipt Checklist

Client Name **BWD**

Date and Time Received: **3/25/2016 11:09:00 AM**

Work Order Number: **1603K37**

RcptNo: **1**

Received by **Amanda De Pascale**

Completed by: *John Stante*

Reviewed by: *Stu Murrell*

Completed Date: 3/25/2016 12:37:28 PM

Reviewed Date: 3/25/2016 3:58:56 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 15.9 °
- 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 :
1603K37

Certifications

STATE	CERTIFICATION #
NEW YORK	10478
NEW JERSEY	NY158
CONNECTICUT	PH-0435
MARYLAND	208
MAS S ACHUS E TTS	M-NY026
NE W HAMP S HIRE	2987
RHODE IS LAND	LAO00340
PE NNS YLVANIA	68-00350