REI Consultants, Inc.
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Improving the environment, one client at a time...

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[redacted]

[redacted]

TEL: [redacted]
FAX:

RE: [redacted]

REI Consultants, Inc. received 2 sample(s) on 1/4/2017 for the analyses presented in the following report.

Sincerely,

Kathy Berry

Project Manager

REI Consultants, Inc. - Case Narrative

WO#: [redacted]

Date Reported: [redacted]

Client: [redacted]

Project: [redacted]

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAA5, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REIC Service Centers are designated by an annotation on the test code. All other tests were performed by REIC's Main Laboratory in Beaver, WV.

DEFINITIONS:
MCL: Maximum Contaminant Level
MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.
Mg/Kg or mg/L: Units of part per million (PPM) - milligram per Kilogram (weight/weight) or milligram per Liter (weight/volume).
NA: Not Applicable
ND: Not Detected at the PQL or MDL
PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.
Qual: Qualifier that applies to the analyte reported.
TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.
Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:
X: Reported value exceeds required MCL
B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL
E: The sample result is within the method accepted Linear Dynamic Range determined by the lab for this analysis. However, it may be considered estimated when applying the TNI (The NELAC Institute) standard.
H: Holding time for preparation or analysis has been exceeded.
J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.
S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:
Beaver, WV: WVDHHR 00412CM, WVDEP 060, VADCLS 00281, KYDEP 90039, NCDWQ 466, PADEP 68-00839, VADCLS(VELAP) 460148
Bioassay (Beaver, WV): WVDEP 060, VADCLS(VELAP) 460148, PADEP 68-00839
Roanoke, VA: VADCLS(VELAP) 460150
Verona, VA: VADCLS(VELAP) 460151
Morgantown, WV: WVDHHR 003112M, WVDEP 387

REI Consultants, Inc. - Analytical Report

WO#: [redacted]

Date Reported: [redacted]

Client: [redacted]
Project: [redacted]
Lab ID: [redacted]
Client Sample ID: [redacted]

Collection Date: [redacted]
Date Received: [redacted]
Matrix: Drinking Water
Site ID: [redacted]

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
METALS BY ICP			**Method: EPA 200.7 Rev. 4.4 (1994)**				**Analyst: JD**
Sodium	6.30	NA	1.00	NA		mg/L	1/5/2017 5:27 PM
METALS BY ICP-MS			**Method: EPA 200.8 Rev. 5.4 (1994)**				**Analyst: BG**
Antimony	ND	NA	0.0010	0.0060		mg/L	1/5/2017 4:15 PM
Arsenic	ND	NA	0.0050	0.0100		mg/L	1/5/2017 4:15 PM
Barium	0.0244	NA	0.0050	2.00		mg/L	1/5/2017 4:15 PM
Beryllium	ND	NA	0.0020	0.0040		mg/L	1/5/2017 4:15 PM
Cadmium	ND	NA	0.0010	0.0050		mg/L	1/5/2017 4:15 PM
Chromium	ND	NA	0.0050	0.100		mg/L	1/6/2017 6:28 PM
Nickel	ND	NA	0.0100	0.100		mg/L	1/5/2017 4:15 PM
Selenium	ND	NA	0.0050	0.0500		mg/L	1/5/2017 4:15 PM
Thallium	ND	NA	0.0010	0.0020		mg/L	1/5/2017 4:15 PM

Notes:

The reporting limit is elevated for Cd due to matrix interference.

MERCURY, Total E245.1			**Method: EPA 245.1, Rev. 3.0 (1994)**				**Analyst: EP**
Mercury	ND	NA	0.0010	0.0020		mg/L	1/6/2017 11:25 AM
VOLATILE ORGANIC COMPOUNDS			**Method: EPA 524.2, Rev. 4.1**				**Analyst: JM**
Benzene	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Carbon tetrachloride	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Chlorobenzene	ND	NA	0.500	100		µg/L	1/6/2017 5:55 AM
1,2-Dichlorobenzene	ND	NA	0.500	600		µg/L	1/6/2017 5:55 AM
1,4-Dichlorobenzene	ND	NA	0.500	75.0		µg/L	1/6/2017 5:55 AM
1,2-Dichloroethane	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
1,1-Dichloroethene	ND	NA	0.500	7.00		µg/L	1/6/2017 5:55 AM
cis-1,2-Dichloroethene	ND	NA	0.500	70.0		µg/L	1/6/2017 5:55 AM
trans-1,2-Dichloroethene	ND	NA	0.500	100		µg/L	1/6/2017 5:55 AM
1,2-Dichloropropane	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Ethylbenzene	ND	NA	0.500	700		µg/L	1/6/2017 5:55 AM
Methylene chloride	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Styrene	ND	NA	0.500	100		µg/L	1/6/2017 5:55 AM
Tetrachloroethene	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Toluene	ND	NA	0.500	1,000		µg/L	1/6/2017 5:55 AM
1,2,4-Trichlorobenzene	ND	NA	0.500	70.0		µg/L	1/6/2017 5:55 AM

REI Consultants, Inc. - Analytical Report

WO#: [redacted]

Date Reported: [redacted]

Client:	[redacted]	**Collection Date:**	[redacted]
Project:	[redacted]	**Date Received:**	[redacted]
Lab ID:	[redacted]	**Matrix:**	Drinking Water
Client Sample ID:	[redacted]	**Site ID:**	[redacted]

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
1,1,1-Trichloroethane	ND	NA	0.500	200		µg/L	1/6/2017 5:55 AM
1,1,2-Trichloroethane	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Trichloroethene	ND	NA	0.500	5.00		µg/L	1/6/2017 5:55 AM
Vinyl chloride	ND	NA	0.500	2.00		µg/L	1/6/2017 5:55 AM
o-Xylene	ND	NA	0.500	NA		µg/L	1/6/2017 5:55 AM
m,p-Xylene	ND	NA	0.500	NA		µg/L	1/6/2017 5:55 AM
Xylenes (Total)	ND	NA	0.500	10,000		µg/L	1/6/2017 5:55 AM
Methyl tert-butyl ether	ND	NA	5.00	NA		µg/L	1/6/2017 5:55 AM
ANIONS by ION CHROMATOGRAPHY			**Method: EPA 300.0, Rev.2.1 (1993)**				**Analyst: CF**
Fluoride	0.59	NA	0.20	4.00		mg/L	1/4/2017 8:36 PM
Sulfate	5.24	NA	5.00	250		mg/L	1/4/2017 8:36 PM
ANIONS by ION CHROMATOGRAPHY:			**Method: EPA 300.0, Rev.2.1 (1993)**				**Analyst: CF**
Nitrogen, Nitrate	0.14	NA	0.10	10.0		mg/L	1/4/2017 8:36 PM
CYANIDE			**Method: EPA 335.4, Rev. 1 (1993)**				**Analyst: EA**
Cyanide, Total	ND	NA	0.020	0.200		mg/L	1/6/2017 11:18 AM

REI Consultants, Inc. - Analytical Report

WO#: [redacted]

Date Reported: [redacted]

Client:	[redacted]	**Collection Date:**	[redacted]
Project:	[redacted]	**Date Received:**	[redacted]
Lab ID:	[redacted]	**Matrix:**	Trip Blank
Client Sample ID:	TRIP BLANK	**Site ID:**	[redacted]

Analysis	Result	MDL	PQL	MCL	Qual	Units	Date Analyzed NELAP
VOLATILE ORGANIC COMPOUNDS			**Method: EPA 524.2, Rev. 4.1**				**Analyst: JM**
Benzene	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Carbon tetrachloride	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Chlorobenzene	ND	NA	0.500	100		µg/L	1/6/2017 6:28 AM
1,2-Dichlorobenzene	ND	NA	0.500	600		µg/L	1/6/2017 6:28 AM
1,4-Dichlorobenzene	ND	NA	0.500	75.0		µg/L	1/6/2017 6:28 AM
1,2-Dichloroethane	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
1,1-Dichloroethene	ND	NA	0.500	7.00		µg/L	1/6/2017 6:28 AM
cis-1,2-Dichloroethene	ND	NA	0.500	70.0		µg/L	1/6/2017 6:28 AM
trans-1,2-Dichloroethene	ND	NA	0.500	100		µg/L	1/6/2017 6:28 AM
1,2-Dichloropropane	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Ethylbenzene	ND	NA	0.500	700		µg/L	1/6/2017 6:28 AM
Methylene chloride	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Styrene	ND	NA	0.500	100		µg/L	1/6/2017 6:28 AM
Tetrachloroethene	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Toluene	ND	NA	0.500	1,000		µg/L	1/6/2017 6:28 AM
1,2,4-Trichlorobenzene	ND	NA	0.500	70.0		µg/L	1/6/2017 6:28 AM
1,1,1-Trichloroethane	ND	NA	0.500	200		µg/L	1/6/2017 6:28 AM
1,1,2-Trichloroethane	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Trichloroethene	ND	NA	0.500	5.00		µg/L	1/6/2017 6:28 AM
Vinyl chloride	ND	NA	0.500	2.00		µg/L	1/6/2017 6:28 AM
o-Xylene	ND	NA	0.500	NA		µg/L	1/6/2017 6:28 AM
m,p-Xylene	ND	NA	0.500	NA		µg/L	1/6/2017 6:28 AM
Xylenes (Total)	ND	NA	0.500	10,000		µg/L	1/6/2017 6:28 AM
Methyl tert-butyl ether	ND	NA	5.00	NA		µg/L	1/6/2017 6:28 AM

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Sample Receipt Checklist

Client Name:	[redacted]			Work Order Number:	[redacted]
RCPNo:	1	Date and Time Received:	[redacted]	Received by:	**Blane Williams**
Completed By:	**Candace Meadows**		Reviewed By:	**Kathy Berry**	
Completed Date:	[redacted]		Reviewed Date:	[redacted]	

Carrier Name: REIC

1.	Chain of custody present?	Yes [x]	No [ ]		
2.	Chain of custody signed when relinquished and received?	Yes [x]	No [ ]		
3.	Are matrices correctly identified on Chain of custody?	Yes [x]	No [ ]		
4.	Is it clear what analyses were requested?	Yes [x]	No [ ]		
5.	Custody seals intact?	Yes [ ]	No [ ]	Not Present [x]	
6.	Samples in proper container type and preservative?	Yes [x]	No [ ]		
7.	Were correct preservatives noted on COC?	Yes [x]	No [ ]	NA [ ]	
8.	Sample containers intact?	Yes [x]	No [ ]		
9.	Sufficient sample volume for indicated test?	Yes [x]	No [ ]		
10.	Were container labels complete?	Yes [x]	No [ ]		
11.	All samples received within holding time?	Yes [x]	No [ ]		
12.	Was an attempt made to cool the samples?	Yes [x]	No [ ]	NA [ ]	
13.	Sample Temp. taken and recorded upon receipt?	Yes [x]	No [ ]	To 1.4	ºC
14.	Water - Were bubbles absent in VOC vials?	Yes [x]	No [ ]	No Vials [ ]	
15.	Are Samples considered acceptable?	Yes [x]	No [ ]		
16.	COC filled out properly?	Yes [x]	No [ ]		

Client Notification/Response

Client Name:	[redacted]					Work Order Number	[redacted]
Comment:							
Client Contacted:	Yes [ ]	No [ ]	NA [x]	Person Contacted:			
Contact Mode:	Phone [ ]	Fax: [ ]	Email: [ ]	In Person: [ ]			
Date Contacted:				Contacted By:			
Regarding:							
Client Instructions:							
Corrective Action:							