



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

26 July 2022

Bruce Smith  
Western Water & Land, Inc.  
743 Horizon Ct, Suite 330  
Grand Junction, CO 81506  
RE: Rule 615

Enclosed are the results of analyses for samples received by the laboratory on 07/07/22 10:30. This data replaces the previous report (See case narrative). The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink that reads 'Brenna Kampf'.

Brenna Kampf  
Project Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-22-14

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



Western Water & Land, Inc.  
743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Trip Blank	2207057-01	Water	07/07/22 00:00	07/07/22 10:30	
Smith Spring	2207057-02	Water	07/06/22 13:43	07/07/22 10:30	
Cold Spring	2207057-03	Water	07/06/22 14:25	07/07/22 10:30	

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

**Reported:**  
07/26/22 11:16

**Case Narrative:**

This RE report is revised and replaces the original report dated 07/19/22 16:42. Per client request, the revised report has all values reported down to the MDL and metals reported in mg/L.

Green Analytical Laboratories

Brenna Kampf, Project Manager

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Trip Blank**

**2207057-01 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**VOLATILES BY GC/MS**

<b>Benzene*</b>	<0.09	0.5	0.09	ug/L	1	07/13/22 15:08	8260B		MS
<b>Toluene*</b>	<0.07	0.5	0.07	ug/L	1	07/13/22 15:08	8260B		MS
<b>Ethylbenzene*</b>	<0.09	0.5	0.09	ug/L	1	07/13/22 15:08	8260B		MS
<b>m+p - Xylene*</b>	<0.5	1	0.5	ug/L	1	07/13/22 15:08	8260B		MS
<b>o-Xylene*</b>	<0.07	0.5	0.07	ug/L	1	07/13/22 15:08	8260B		MS
<b>Total Xylenes*</b>	<0.5	2	0.5	ug/L	1	07/13/22 15:08	8260B		MS
<b>1,3,5-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	07/13/22 15:08	8260B		MS
<b>1,2,4-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	07/13/22 15:08	8260B		MS
<b>Naphthalene*</b>	<0.04	0.5	0.04	ug/L	1	07/13/22 15:08	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			101 %	82.4-141		07/13/22 15:08	8260B		MS
<i>Surrogate: Toluene-d8</i>			98.6 %	87.1-110		07/13/22 15:08	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			98.0 %	76.4-114		07/13/22 15:08	8260B		MS

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Smith Spring**

**2207057-02 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Alkalinity, Bicarbonate as CaCO3*	420	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	40.0	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B	U	VJW
Alkalinity, Total as CaCO3*	460	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B		VJW
Bromide	0.150	0.200	0.0548	mg/L	2	07/13/22 18:18	EPA300.0	J	AES
Cation/Anion Balance	-4.28	-100	-100	%	1	07/18/22 08:39	Calculation		JDA
Chloride*	103	2.00	0.111	mg/L	2	07/13/22 18:18	EPA300.0		AES
Conductivity*	2230	1.00		umho/cm @ 25.0°C	1	07/07/22 11:59	2510 B		QEB
Fluoride*	0.504	0.200	0.0194	mg/L	2	07/13/22 18:18	EPA300.0		AES
Nitrate as N*	<0.007	0.020	0.007	mg/L	1	07/07/22 14:17	EPA300.0	U	AES
Nitrate+Nitrite as N by IC	<0.0400	0.0400	0.0110	mg/L	1	07/07/22 14:17	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	07/07/22 14:17	EPA300.0	U	AES
pH*	7.85			pH Units	1	07/07/22 11:59	EPA150.1		QEB
pH Temperature, degrees C	18.8			pH Units	1	07/07/22 11:59	EPA150.1		QEB
Phosphorus, Total	0.283	0.0500	0.0164	mg P/L	1	07/14/22 12:56	EPA365.1		HTB
SAR	4.42			No Unit	1	07/13/22 13:00	Calculation		AES
Total Dissolved Solids*	1570	10.0		mg/L	1	07/07/22 15:40	EPA160.1		VJW
Sulfate*	691	20.0	2.48	mg/L	20	07/14/22 12:44	EPA300.0		AES

**Dissolved Metals by ICP**

Boron	0.223	0.300	0.122	mg/L	1	07/13/22 13:01	EPA200.7	J	AES
Calcium*	110	0.100	0.024	mg/L	1	07/13/22 13:00	EPA200.7		AES
Hardness as CaCO3	648	0.662	0.186	mg/L	1	07/13/22 13:00	2340 B		AES
Iron*	<0.036	0.050	0.036	mg/L	1	07/13/22 13:01	EPA200.7	U	AES
Magnesium*	90.3	0.100	0.031	mg/L	1	07/13/22 13:00	EPA200.7		AES
Potassium*	4.06	1.00	0.065	mg/L	1	07/13/22 13:00	EPA200.7		AES
Sodium*	258	1.00	0.106	mg/L	1	07/13/22 13:00	EPA200.7		AES
Strontium*	1.45	0.100	0.004	mg/L	1	07/13/22 13:00	EPA200.7		AES

**Dissolved Metals by ICPMS**

Barium*	0.0301	0.0025	0.0015	mg/L	5	07/14/22 15:34	EPA200.8		AES
Manganese*	0.0016	0.0025	0.0005	mg/L	5	07/14/22 15:34	EPA200.8	J	AES
Selenium*	0.0020	0.0010	0.0006	mg/L	1	07/14/22 13:34	EPA200.8		AES

Green Analytical Laboratories

Brenna Kampf, Project Manager

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Smith Spring**

**2207057-02 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Other**

<b>Iron-Related Bacteria</b>	High Aggressivity			CFU/mL	1	07/08/22 16:00	Lab Procedure		LLG
<b>Slime-Forming Bacteria</b>	High Aggressivity			CFU/mL	1	07/08/22 16:00	Lab Procedure		LLG
<b>Sulfate-Reducing Bacteria</b>	High Aggressivity			CFU/mL	1	07/08/22 16:00	Lab Procedure		LLG

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<295	1000	295	ug/L	0.1	07/08/22 19:51	8015B		MS
<b>DRO &gt;C10-C28*</b>	<670	1000	670	ug/L	0.1	07/08/22 19:51	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<670	1000	670	ug/L	0.1	07/08/22 19:51	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			83.6 %	44.9-146		07/08/22 19:51	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			83.9 %	39.8-162		07/08/22 19:51	8015B		MS

**VOLATILES BY GC/MS**

<b>Benzene*</b>	<0.09	0.5	0.09	ug/L	1	07/13/22 15:30	8260B		MS
<b>Toluene*</b>	<0.07	0.5	0.07	ug/L	1	07/13/22 15:30	8260B		MS
<b>Ethylbenzene*</b>	<0.09	0.5	0.09	ug/L	1	07/13/22 15:30	8260B		MS
<b>m+p - Xylene*</b>	<0.5	1	0.5	ug/L	1	07/13/22 15:30	8260B		MS
<b>o-Xylene*</b>	<0.07	0.5	0.07	ug/L	1	07/13/22 15:30	8260B		MS
<b>Total Xylenes*</b>	<0.5	2	0.5	ug/L	1	07/13/22 15:30	8260B		MS
<b>1,3,5-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	07/13/22 15:30	8260B		MS
<b>1,2,4-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	07/13/22 15:30	8260B	QM-07	MS
<b>Naphthalene*</b>	<0.04	0.5	0.04	ug/L	1	07/13/22 15:30	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			104 %	82.4-141		07/13/22 15:30	8260B		MS
<i>Surrogate: Toluene-d8</i>			97.9 %	87.1-110		07/13/22 15:30	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			98.6 %	76.4-114		07/13/22 15:30	8260B		MS

**Subcontracted -- SunStar Laboratories, Inc. 25712 Commercentre Drive Lake Forest, CA 92630**

**RSK-175**

<b>Methane</b>	<0.364	3.28	0.364	ug/l	1	07/11/22 10:39	RSK-175		TL
<b>Ethane</b>	<1.16	6.15	1.16	ug/l	1	07/11/22 10:39	RSK-175		TL

Green Analytical Laboratories

Brenna Kampf, Project Manager

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Smith Spring**

**2207057-02 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- SunStar Laboratories, Inc. 25712 Commercentre Drive Lake Forest, CA 92630**

**RSK-175**

Propane	<0.577	9.02	0.577	ug/l	1	07/11/22 10:39	RSK-175		TL
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Green Analytical Laboratories

Brenna Kampf, Project Manager

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Cold Spring**

**2207057-03 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
<b>General Chemistry</b>									
Alkalinity, Bicarbonate as CaCO3*	445	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<2.27	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B	U	VJW
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B	U	VJW
Alkalinity, Total as CaCO3*	445	10.0	2.27	mg/L	5	07/15/22 14:15	2320 B		VJW
Bromide	0.256	0.200	0.0548	mg/L	2	07/13/22 19:21	EPA300.0		AES
Cation/Anion Balance	-5.85	-100	-100	%	1	07/18/22 08:39	Calculation		JDA
Chloride*	193	2.00	0.111	mg/L	2	07/13/22 19:21	EPA300.0		AES
Conductivity*	1730	1.00		umho/cm @ 25.0°C	1	07/07/22 11:59	2510 B		QEB
Fluoride*	0.992	0.200	0.0194	mg/L	2	07/13/22 19:21	EPA300.0		AES
Nitrate as N*	0.050	0.040	0.014	mg/L	2	07/07/22 14:36	EPA300.0		AES
Nitrate+Nitrite as N by IC	<0.0800	0.0800	0.0219	mg/L	2	07/07/22 14:36	EPA300.0		AES
Nitrite as N*	<0.008	0.040	0.008	mg/L	2	07/07/22 14:36	EPA300.0	U	AES
pH*	7.55			pH Units	1	07/07/22 11:59	EPA150.1		QEB
pH Temperature, degrees C	18.8			pH Units	1	07/07/22 11:59	EPA150.1		QEB
Phosphorus, Total	<0.0164	0.0500	0.0164	mg P/L	1	07/14/22 12:57	EPA365.1	U	HTB
SAR	3.57			No Unit	1	07/13/22 13:05	Calculation		AES
Total Dissolved Solids*	1050	10.0		mg/L	1	07/07/22 15:40	EPA160.1		VJW
Sulfate*	249	10.0	1.24	mg/L	10	07/14/22 13:47	EPA300.0		AES
<b>Dissolved Metals by ICP</b>									
Boron	0.176	0.300	0.122	mg/L	1	07/13/22 13:05	EPA200.7	J	AES
Calcium*	52.7	0.100	0.024	mg/L	1	07/13/22 13:05	EPA200.7		AES
Hardness as CaCO3	477	0.662	0.186	mg/L	1	07/13/22 13:05	2340 B		AES
Iron*	<0.036	0.050	0.036	mg/L	1	07/13/22 13:05	EPA200.7	U	AES
Magnesium*	83.9	0.100	0.031	mg/L	1	07/13/22 13:05	EPA200.7		AES
Potassium*	0.917	1.00	0.065	mg/L	1	07/13/22 13:05	EPA200.7	J	AES
Sodium*	179	1.00	0.106	mg/L	1	07/13/22 13:05	EPA200.7		AES
Strontium*	1.02	0.100	0.004	mg/L	1	07/13/22 13:05	EPA200.7		AES
<b>Dissolved Metals by ICPMS</b>									
Barium*	0.0482	0.0025	0.0015	mg/L	5	07/14/22 15:35	EPA200.8		AES
Manganese*	<0.0005	0.0025	0.0005	mg/L	5	07/14/22 15:35	EPA200.8	U	AES
Selenium*	0.0094	0.0010	0.0006	mg/L	1	07/14/22 13:36	EPA200.8		AES

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Cold Spring**

**2207057-03 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Other**

<b>Iron-Related Bacteria</b>	High Aggressivity			CFU/mL	1	07/08/22 16:00	Lab Procedure		LLG
<b>Slime-Forming Bacteria</b>	Low Aggressivity			CFU/mL	1	07/08/22 16:00	Lab Procedure		LLG
<b>Sulfate-Reducing Bacteria</b>	High Aggressivity			CFU/mL	1	07/08/22 16:00	Lab Procedure		LLG

**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<295	1000	295	ug/L	0.1	07/08/22 20:11	8015B		MS
<b>DRO &gt;C10-C28*</b>	<670	1000	670	ug/L	0.1	07/08/22 20:11	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<670	1000	670	ug/L	0.1	07/08/22 20:11	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			83.2 %	44.9-146		07/08/22 20:11	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			83.5 %	39.8-162		07/08/22 20:11	8015B		MS

**VOLATILES BY GC/MS**

<b>Benzene*</b>	<0.09	0.5	0.09	ug/L	1	07/13/22 15:52	8260B		MS
<b>Toluene*</b>	<0.07	0.5	0.07	ug/L	1	07/13/22 15:52	8260B		MS
<b>Ethylbenzene*</b>	<0.09	0.5	0.09	ug/L	1	07/13/22 15:52	8260B		MS
<b>m+p - Xylene*</b>	<0.5	1	0.5	ug/L	1	07/13/22 15:52	8260B		MS
<b>o-Xylene*</b>	<0.07	0.5	0.07	ug/L	1	07/13/22 15:52	8260B		MS
<b>Total Xylenes*</b>	<0.5	2	0.5	ug/L	1	07/13/22 15:52	8260B		MS
<b>1,3,5-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	07/13/22 15:52	8260B		MS
<b>1,2,4-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	07/13/22 15:52	8260B		MS
<b>Naphthalene*</b>	<0.04	0.5	0.04	ug/L	1	07/13/22 15:52	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			103 %	82.4-141		07/13/22 15:52	8260B		MS
<i>Surrogate: Toluene-d8</i>			98.6 %	87.1-110		07/13/22 15:52	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			98.6 %	76.4-114		07/13/22 15:52	8260B		MS

**Subcontracted -- SunStar Laboratories, Inc. 25712 Commercentre Drive Lake Forest, CA 92630**

**RSK-175**

<b>Methane</b>	<0.364	3.28	0.364	ug/l	1	07/11/22 10:47	RSK-175		TL
<b>Ethane</b>	<1.16	6.15	1.16	ug/l	1	07/11/22 10:47	RSK-175		TL

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Western Water & Land, Inc.  
743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**Cold Spring**

**2207057-03 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Subcontracted -- SunStar Laboratories, Inc. 25712 Commercentre Drive Lake Forest, CA 92630**

<b>RSK-175</b>									
Propane	<0.577	9.02	0.577	ug/l	1	07/11/22 10:47	RSK-175		TL

Green Analytical Laboratories

Brenna Kampf, Project Manager

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Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B221800 - IC- Ion Chromatograph</b>										
<b>Blank (B221800-BLK1)</b> Prepared & Analyzed: 07/07/22										
Nitrate as N	ND	0.020	mg/L							U
Nitrite as N	ND	0.020	mg/L							U
<b>LCS (B221800-BS1)</b> Prepared & Analyzed: 07/07/22										
Nitrate as N	0.975	0.020	mg/L	1.00		97.5	90-110			
Nitrite as N	1.05	0.020	mg/L	1.00		105	90-110			
<b>LCS Dup (B221800-BSD1)</b> Prepared & Analyzed: 07/07/22										
Nitrate as N	0.975	0.020	mg/L	1.00		97.5	90-110	0.0718	20	
Nitrite as N	1.05	0.020	mg/L	1.00		105	90-110	0.401	20	
<b>Batch B221816 - General Prep - Wet Chem</b>										
<b>Blank (B221816-BLK1)</b> Prepared & Analyzed: 07/07/22										
Total Dissolved Solids	ND	10.0	mg/L							U
<b>Duplicate (B221816-DUP1)</b> Source: 2207011-01 Prepared & Analyzed: 07/07/22										
Total Dissolved Solids	15100	40.0	mg/L		15300			1.45	20	
<b>Reference (B221816-SRM1)</b> Prepared & Analyzed: 07/07/22										
Total Dissolved Solids	370	10.0	mg/L	380		97.4	85-115			
<b>Batch B221818 - General Prep - Wet Chem</b>										
<b>Duplicate (B221818-DUP2)</b> Source: 2207056-02 Prepared & Analyzed: 07/07/22										
pH	7.53		pH Units		7.51			0.266	20	
pH Temperature, degrees C	20.6		pH Units		20.6			0.00	200	
<b>Reference (B221818-SRM1)</b> Prepared & Analyzed: 07/07/22										
pH	7.02		pH Units	7.00		100	98.57-101.42			
<b>Batch B221822 - General Prep - Wet Chem</b>										
<b>Duplicate (B221822-DUP2)</b> Source: 2207056-02 Prepared & Analyzed: 07/07/22										
Conductivity	2430	1.00	umho/cm @ 25.0°C		2420			0.165	20	
<b>Reference (B221822-SRM1)</b> Prepared & Analyzed: 07/07/22										
Conductivity	1020	1.00	umho/cm @ 25.0°C	1000		102	90-110			
<b>Batch B221829 - IC- Ion Chromatograph</b>										

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Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**General Chemistry - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Notes
<b>Blank (B221829-BLK1)</b>									
					Prepared: 07/11/22 Analyzed: 07/13/22				
Bromide	ND	0.100	mg/L						U
Chloride	ND	1.00	mg/L						U
Fluoride	ND	0.100	mg/L						U
Sulfate	ND	1.00	mg/L						U
<b>LCS (B221829-BS1)</b>									
					Prepared: 07/11/22 Analyzed: 07/13/22				
Bromide	2.43	0.100	mg/L	2.50		97.0		90-110	
Chloride	25.3	1.00	mg/L	25.0		101		90-110	
Fluoride	2.42	0.100	mg/L	2.50		96.8		90-110	
Sulfate	24.5	1.00	mg/L	25.0		98.1		90-110	
<b>LCS Dup (B221829-BSD1)</b>									
					Prepared: 07/11/22 Analyzed: 07/13/22				
Bromide	2.40	0.100	mg/L	2.50		96.1	0.911	20	
Chloride	25.0	1.00	mg/L	25.0		100	0.943	20	
Fluoride	2.40	0.100	mg/L	2.50		96.2	0.663	20	
Sulfate	24.4	1.00	mg/L	25.0		97.6	0.482	20	
<b>Batch B221832 - Dissolved ICP</b>									
<b>Blank (B221832-BLK1)</b>									
					Prepared & Analyzed: 07/13/22				
SAR	0.00		No Unit						
<b>Batch B221879 - Lachat</b>									
<b>Blank (B221879-BLK1)</b>									
					Prepared: 07/13/22 Analyzed: 07/14/22				
Phosphorus, Total	ND	0.0500	mg P/L						U
<b>LCS (B221879-BS1)</b>									
					Prepared: 07/13/22 Analyzed: 07/14/22				
Phosphorus, Total	2.67	0.0500	mg P/L	2.50		107		90-110	
<b>LCS Dup (B221879-BSD1)</b>									
					Prepared: 07/13/22 Analyzed: 07/14/22				
Phosphorus, Total	2.67	0.0500	mg P/L	2.50		107	0.262	20	
<b>Batch B221881 - General Prep - Wet Chem</b>									
<b>Blank (B221881-BLK1)</b>									
					Prepared: 07/13/22 Analyzed: 07/15/22				
Alkalinity, Bicarbonate as CaCO3	5.00	10.0	mg/L						J
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L						U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L						U
Alkalinity, Total as CaCO3	5.00	10.0	mg/L						J
<b>LCS (B221881-BS1)</b>									
					Prepared: 07/13/22 Analyzed: 07/15/22				
Alkalinity, Bicarbonate as CaCO3	101	10.0	mg/L	100		101		85-115	
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L					85-115	U

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: TEP BWQ GR 12-29 Project Manager: Bruce Smith	Reported: 07/26/22 11:16
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**General Chemistry - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B221881 - General Prep - Wet Chem (Continued)**

**LCS (B221881-BS1) (Continued)**

Prepared: 07/13/22 Analyzed: 07/15/22

Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Total as CaCO3	101	10.0	mg/L	100		101	85-115			

**LCS Dup (B221881-BSD1)**

Prepared: 07/13/22 Analyzed: 07/15/22

Alkalinity, Bicarbonate as CaCO3	104	10.0	mg/L	100		104	85-115	2.93	20	
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115		20	U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115		20	U
Alkalinity, Total as CaCO3	104	10.0	mg/L	100		104	85-115	2.93	20	

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Project: Rule 615  
Project Name / Number: TEP BWQ GR 12-29  
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Reported:  
07/26/22 11:16

**Dissolved Metals by ICP - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B221832 - Dissolved ICP**

**Blank (B221832-BLK1)**

Prepared & Analyzed: 07/13/22

Boron	ND	0.300	mg/L							U
Calcium	ND	0.100	mg/L							U
Iron	ND	0.050	mg/L							U
Magnesium	ND	0.100	mg/L							U
Potassium	ND	1.00	mg/L							U
Sodium	0.399	1.00	mg/L							J
Strontium	ND	0.100	mg/L							U

**LCS (B221832-BS1)**

Prepared & Analyzed: 07/13/22

Boron	5.19	0.300	mg/L	5.00		104	85-115			
Calcium	5.25	0.100	mg/L	5.00		105	85-115			
Iron	5.28	0.050	mg/L	5.00		106	85-115			
Magnesium	26.7	0.100	mg/L	25.0		107	85-115			
Potassium	10.6	1.00	mg/L	10.0		106	85-115			
Sodium	4.52	1.00	mg/L	4.05		112	85-115			
Strontium	5.18	0.100	mg/L	5.00		104	85-115			

**LCS Dup (B221832-BSD1)**

Prepared & Analyzed: 07/13/22

Boron	5.04	0.300	mg/L	5.00		101	85-115	2.85	20	
Calcium	4.98	0.100	mg/L	5.00		99.7	85-115	5.24	20	
Iron	5.25	0.050	mg/L	5.00		105	85-115	0.720	20	
Magnesium	25.6	0.100	mg/L	25.0		102	85-115	4.17	20	
Potassium	10.5	1.00	mg/L	10.0		105	85-115	1.72	20	
Sodium	4.45	1.00	mg/L	4.05		110	85-115	1.66	20	
Strontium	5.19	0.100	mg/L	5.00		104	85-115	0.254	20	

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Reported:  
07/26/22 11:16

**Dissolved Metals by ICPMS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B221868 - Dissolved ICPMS**

**Blank (B221868-BLK1)**

Prepared: 07/13/22 Analyzed: 07/14/22

Barium	ND	0.0005	mg/L							U
Manganese	ND	0.0005	mg/L							U
Selenium	ND	0.0010	mg/L							U

**LCS (B221868-BS1)**

Prepared: 07/13/22 Analyzed: 07/14/22

Barium	0.0493	0.0005	mg/L	0.0500		98.6	85-115			
Manganese	0.0493	0.0005	mg/L	0.0500		98.6	85-115			
Selenium	0.241	0.0010	mg/L	0.250		96.5	85-115			

**LCS Dup (B221868-BSD1)**

Prepared: 07/13/22 Analyzed: 07/14/22

Barium	0.0501	0.0005	mg/L	0.0500		100	85-115	1.51	20	
Manganese	0.0511	0.0005	mg/L	0.0500		102	85-115	3.64	20	
Selenium	0.245	0.0010	mg/L	0.250		98.2	85-115	1.75	20	

**RSK-175 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 22G0124 - EPA 3810m Headspace**

**Blank (22G0124-BLK1)**

Prepared & Analyzed: 07/11/22

Ethane	ND	6.15	ug/l							
Methane	ND	3.28	ug/l							
Propane	ND	9.02	ug/l							

**LCS (22G0124-BS1)**

Prepared & Analyzed: 07/11/22

Ethane	1320	6.15	ug/l	1230		107	75-125			
Methane	746	3.28	ug/l	656		114	75-125			

**Duplicate (22G0124-DUP1)**

Source: T221913-01 Prepared & Analyzed: 07/11/22

Ethane	ND	6.15	ug/l		ND				20	
Methane	168	3.28	ug/l		165			1.69	20	
Propane	ND	9.02	ug/l		ND				20	

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07/26/22 11:16

**Petroleum Hydrocarbons by GC FID - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2070813 - General Prep - Organics**

**Blank (2070813-BLK1)**

Prepared & Analyzed: 07/08/22

Surrogate: 1-Chlorooctadecane	4050		ug/L	5000		81.1	39.8-162			
Surrogate: 1-Chlorooctane	3980		ug/L	5000		79.5	44.9-146			
DRO >C10-C28	ND	1000	ug/L							
EXT DRO >C28-C36	ND	1000	ug/L							
GRO C6-C10	ND	1000	ug/L							

**LCS (2070813-BS1)**

Prepared & Analyzed: 07/08/22

Surrogate: 1-Chlorooctadecane	6140		ug/L	5000		123	39.8-162			
Surrogate: 1-Chlorooctane	5940		ug/L	5000		119	44.9-146			
DRO >C10-C28	42200	1000	ug/L	50000		84.5	70-121			
GRO C6-C10	38000	1000	ug/L	50000		76.0	72.4-116			

**LCS Dup (2070813-BSD1)**

Prepared & Analyzed: 07/08/22

Surrogate: 1-Chlorooctadecane	6780		ug/L	5000		136	39.8-162			
Surrogate: 1-Chlorooctane	6280		ug/L	5000		126	44.9-146			
DRO >C10-C28	41100	1000	ug/L	50000		82.3	70-121	2.63	24.8	
GRO C6-C10	37400	1000	ug/L	50000		74.7	72.4-116	1.68	8.73	

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07/26/22 11:16

**VOLATILES BY GC/MS - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2071234 - Volatiles**

**Blank (2071234-BLK1)**

Prepared: 07/12/22 Analyzed: 07/13/22

1,2,4-Trimethylbenzene	ND	0.5	ug/L							
1,3,5-Trimethylbenzene	ND	0.5	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	24.8		ug/L	25.0		99.2	76.4-114			
Benzene	ND	0.5	ug/L							
<i>Surrogate: Dibromofluoromethane</i>	25.6		ug/L	25.0		102	82.4-141			
Ethylbenzene	ND	0.5	ug/L							
m+p - Xylene	ND	1	ug/L							
Naphthalene	ND	0.5	ug/L							
o-Xylene	ND	0.5	ug/L							
Toluene	ND	0.5	ug/L							
<i>Surrogate: Toluene-d8</i>	24.6		ug/L	25.0		98.4	87.1-110			
Total Xylenes	ND	2	ug/L							

**LCS (2071234-BS1)**

Prepared: 07/12/22 Analyzed: 07/13/22

1,2,4-Trimethylbenzene	20	0.5	ug/L	20.0		98.2	85.2-120			
1,3,5-Trimethylbenzene	20	0.5	ug/L	20.0		100	84.3-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.7		ug/L	25.0		103	76.4-114			
Benzene	21	0.5	ug/L	20.0		107	85.9-114			
<i>Surrogate: Dibromofluoromethane</i>	25.5		ug/L	25.0		102	82.4-141			
Ethylbenzene	20	0.5	ug/L	20.0		102	81.8-127			
m+p - Xylene	43	1	ug/L	40.0		107	72.4-134			
Naphthalene	21	0.5	ug/L	20.0		105	59.3-140			
o-Xylene	21	0.5	ug/L	20.0		103	76.2-135			
Toluene	21	0.5	ug/L	20.0		105	78.8-121			
<i>Surrogate: Toluene-d8</i>	24.8		ug/L	25.0		99.2	87.1-110			
Total Xylenes	63	2	ug/L	60.0		106	74.3-134			

**LCS Dup (2071234-BS1)**

Prepared: 07/12/22 Analyzed: 07/13/22

1,2,4-Trimethylbenzene	19	0.5	ug/L	20.0		97.2	85.2-120	1.02	8.94	
1,3,5-Trimethylbenzene	20	0.5	ug/L	20.0		98.9	84.3-120	1.41	16.5	
<i>Surrogate: 4-Bromofluorobenzene</i>	25.0		ug/L	25.0		99.9	76.4-114			
Benzene	21	0.5	ug/L	20.0		107	85.9-114	0.00	4.16	
<i>Surrogate: Dibromofluoromethane</i>	25.8		ug/L	25.0		103	82.4-141			
Ethylbenzene	20	0.5	ug/L	20.0		102	81.8-127	0.489	4.83	
m+p - Xylene	42	1	ug/L	40.0		106	72.4-134	1.17	5.77	
Naphthalene	21	0.5	ug/L	20.0		104	59.3-140	0.287	33.5	
o-Xylene	21	0.5	ug/L	20.0		104	76.2-135	0.386	6.29	
Toluene	21	0.5	ug/L	20.0		104	78.8-121	1.34	5.67	

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Project: Rule 615  
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Project Manager: Bruce Smith

Reported:  
07/26/22 11:16

**VOLATILES BY GC/MS - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2071234 - Volatiles (Continued)**

**LCS Dup (2071234-BSD1) (Continued)**

Prepared: 07/12/22 Analyzed: 07/13/22

Surrogate: Toluene-d8	25.0		ug/L	25.0		99.8	87.1-110			
Total Xylenes	63	2	ug/L	60.0		105	74.3-134	0.664	5.83	

**Notes and Definitions**

- U Analyte included in the analysis, but not detected
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

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**GAL Analytical Laboratories**

(970) 247-4220  
Fax: (970) 247-4227

dzufell@greenanalytical.com  
75 Suttle St Durango, CO 81303

**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

FORM-006  
COC - Revision 6.0

<b>Company or Client:</b> Western Water & Land Inc <b>Address:</b> 743 Horizon Court, Suite 330 <b>City:</b> Grand Junction <b>State:</b> CO <b>Zip:</b> 81506 <b>Phone #:</b> 970-242-0170 ; 706-483-2390 <b>Contact Person:</b> B-smith ; Chas Jones <b>Email Report to:</b> bsmith@westernwaterandland.com <b>Project Name (optional):</b> TEP BWA IGR 12-29		<b>P.O. #:</b> <b>Company:</b> TEP Rocky Mtn LLC <b>Attn:</b> Tammy Gose <b>Address:</b> 1058 CR 215 <b>City:</b> Parachute <b>State:</b> CO <b>Zip:</b> 81635 <b>Phone #:</b> 970-712-6049 <b>Email:</b> Tammy.gose@terrap.com		<b>Bill to (if different):</b>	
<b>Sampler Name (Print):</b> Chas Jones		<b>Collected</b>			
<b>For Lab Use</b> 2207-057	<b>Sample Name or Location</b> Trip Blank -01 Smith Spring -02 Cold Spring -03	<b>Date</b> - 7/6 7/6	<b>Time</b> - 13:43 14:05	<b>Matrix (check one)</b> <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> SURFACEWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> PRODUCEDWATER <input type="checkbox"/> SOIL <input type="checkbox"/> DRINKING WATER <input checked="" type="checkbox"/> OTHER :	
				<input type="checkbox"/> No preservation (general)	
				<input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> HCl <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> <input type="checkbox"/> Other: <input type="checkbox"/> Other:	
				<b># of containers</b> 2 6 6	
				<b>ANALYSIS REQUEST</b> BTEX TPH * Dissolved Metals (lab filter) RSK 175 nutrients BART General (Anions, ALK, TDS, pH, SpC, nitrates, nitrite, total nitrates, nitrates)	
<b>Relinquished by:</b> Chas Jones <b>Date:</b> 7/6 <b>Time:</b> 10:30		<b>Received by:</b> Tammy Gose <b>Date:</b> 7/6 <b>Time:</b> 10:30		<b>Report to State? (Circle)</b> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
<b>Relinquished by:</b> Fed Eno <b>Date:</b> 7/17/22 <b>Time:</b> 10:30		<b>Received by:</b> [Signature] <b>Date:</b> 7/17/22 <b>Time:</b> 10:30		<b>ADDITIONAL REMARKS:</b> * included Naphthalene, 1,3,5 & 1,2,4-TriMethylbenzenes Laser #2	
<b>Relinquished by:</b> [Signature] <b>Date:</b> [Blank] <b>Time:</b> [Blank]		<b>Received by:</b> [Blank] <b>Date:</b> [Blank] <b>Time:</b> [Blank]		<b>Temperature at receipt:</b> 3.8°C <b>CHECKED BY:</b> PMS <b>On Ice:</b> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

\* GAL cannot always accept verbal changes. Please fax or email written change requests.  
 † Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable changes.  
 Just Click Printing Form #17-0301

Laboratory Sample ID: 2206-057-02

Start Date: 07/08/22

Sample Name: Smith Spring

**BART Type :**

**APB**  
Purple  
(Acid Producing Bacteria )

	1	2	3	4	5	6	7	8	9	10
Time Lag (days)										
Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Reaction Code										

**IRB**  
Red  
(Iron Related Bacteria)

	07/09	07/10	07/11	07/12	07/13	07/14	07/15	07/16	07/17	07/18
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	570,000	140,000	35,000	9000	2200	500	150	25	8	< 1
Reaction Code	A	FO	FO	FO/BR/BC	FO/BR/BC	FO/BR/BL	BL	BL	BL	BL

**SLYM**  
Green  
(Slime Forming Bacteria)

	07/09	07/10	07/11	07/12	07/13	07/14	07/15	07/16	07/17	07/18
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	1,750,000	440,000	67,000	13,000	2500	500	100	< 20	n/a	n/a
Reaction Code	A	A	PB	PB	PB	PB	PB	PB	PB	PB

**SRB**  
Black  
(Sulfate Reducing Bacteria)

	07/09	07/10	07/11	07/12	07/13	07/14	07/15	07/16	07/17	07/18
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	2,200,000	500,000	115,000	27,000	6,000	1400	325	75	20	< 5
Reaction Code	A	A	BB	BB	BB	BB	BB	BB	BB	BB

Aggressivity:	High	Medium	Low
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**Reaction Code Summary: APB**  
Purple

**ABSENT = A**

**IRB**

FO - Foam  
BR - Brown Ring  
BG - Brown Gel  
BC - Brown Clouds  
GC - Green Cloudy  
RC - Red Cloudy  
CL - Cloudy  
BL - Black

**SLYM**

DS - Dense Slime  
SR - Slime Ring  
CL - Cloudy  
CP - Cloudy Layered Plates  
PB - Pale Blue Glowing  
BL - Blackened Liquid  
TH - Thread Like Strands

**SRB**

BB - Black Base  
BT - Black Ball/Top  
BT/BB - Black Top & Base  
Cloudy  
\*n/a - Not Aggressive

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Laboratory Sample ID: 2206-057-03

Start Date: 07/08/22

Sample Name: Cold Spring

**BART Type :**

**APB**  
Purple  
(Acid Producing Bacteria )

	1	2	3	4	5	6	7	8	9	10
Time Lag (days)										
Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Reaction Code										

**IRB**  
Red  
(Iron Related Bacteria)

	07/09	07/10	07/11	07/12	07/13	07/14	07/15	07/16	07/17	07/18
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	570,000	140,000	35,000	9000	2200	500	150	25	8	< 1
Reaction Code	A	A	A	BR	BR	FO/BR	FO/BR	FO/BR	FO/BR	FO/BR

**SLYM**  
Green  
(Slime Forming Bacteria)

	07/09	07/10	07/11	07/12	07/13	07/14	07/15	07/16	07/17	07/18
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	1,750,000	440,000	67,000	13,000	2500	500	100	< 20	n/a	n/a
Reaction Code	A	A	A	A	A	A	A	A	PB	PB

**SRB**  
Black  
(Sulfate Reducing Bacteria)

	07/09	07/10	07/11	07/12	07/13	07/14	07/15	07/16	07/17	07/18
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	2,200,000	500,000	115,000	27,000	6,000	1400	325	75	20	< 5
Reaction Code	A	A	A	BB	BB	BB	BB	BB	BB	BB

Aggressivity:	High	Medium	Low
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**Reaction Code Summary: APB**  
Purple

**ABSENT = A**

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FO - Foam  
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BB - Black Base  
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BT/BB - Black Top & Base  
Cloudy  
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