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22 June 2022

Bruce Smith  
Western Water & Land, Inc.  
743 Horizon Ct, Suite 330  
Grand Junction, CO 81506  
RE: Rule 411 & Rule 615

Enclosed are the results of analyses for samples received by the laboratory on 06/09/22 11:00. 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 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Tompkins MW-1	2206108-01	Water	06/08/22 13:00	06/09/22 11:00	
Revell Spr	2206108-02	Water	06/08/22 10:15	06/09/22 11:00	
Tompkins Gully	2206108-03	Water	06/08/22 11:10	06/09/22 11:00	
TB	2206108-04	Water	06/08/22 00:00	06/09/22 11:00	

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 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Tompkins MW-1**

**2206108-01 (Ground Water)**

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

Alkalinity, Bicarbonate as CaCO3*	265	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<2.27	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B	U	VJW
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B	U	VJW
Alkalinity, Total as CaCO3*	265	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Bromide	0.0400	0.100	0.0274	mg/L	1	06/16/22 19:44	EPA300.0	J	AES
Chloride*	3.86	1.00	0.0555	mg/L	1	06/16/22 19:44	EPA300.0		AES
Conductivity*	508	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS
Fluoride*	0.208	0.100	0.00971	mg/L	1	06/16/22 19:44	EPA300.0		AES
Nitrate as N*	1.40	0.020	0.007	mg/L	1	06/09/22 18:23	EPA300.0		AES
Nitrate+Nitrite as N by IC	1.40	0.0400	0.0110	mg/L	1	06/09/22 18:23	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	06/09/22 18:23	EPA300.0	U	AES
pH*	7.94			pH Units	1	06/10/22 08:30	EPA150.1		PMS
pH Temperature, degrees C	15.0			pH Units	1	06/10/22 08:30	EPA150.1		PMS
Phosphorus, Total	0.107	0.0500	0.0164	mg P/L	1	06/16/22 09:55	EPA365.1		AES
SAR	1.21			No Unit	1	06/14/22 17:40	Calculation		AES
Total Dissolved Solids*	335	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW
Sulfate*	23.1	1.00	0.124	mg/L	1	06/16/22 19:44	EPA300.0	M5	AES

**Dissolved Metals by ICP**

Boron	<0.122	0.300	0.122	mg/L	1	06/14/22 17:40	EPA200.7	U	AES
Calcium*	28.6	0.100	0.024	mg/L	1	06/14/22 17:40	EPA200.7		AES
Hardness as CaCO3	186	0.662	0.186	mg/L	1	06/14/22 17:40	2340 B		AES
Iron*	<0.036	0.050	0.036	mg/L	1	06/14/22 17:40	EPA200.7	U	AES
Magnesium*	27.7	0.100	0.031	mg/L	1	06/14/22 17:40	EPA200.7		AES
Potassium*	2.10	1.00	0.065	mg/L	1	06/14/22 17:40	EPA200.7		AES
Sodium*	37.9	1.00	0.106	mg/L	1	06/14/22 17:40	EPA200.7		AES
Strontium*	0.604	0.100	0.004	mg/L	1	06/14/22 17:40	EPA200.7		AES

**Dissolved Metals by ICPMS**

Barium*	0.170	0.0005	0.0003	mg/L	1	06/15/22 15:13	EPA200.8		AES
Manganese*	0.0008	0.0005	0.00009	mg/L	1	06/15/22 15:13	EPA200.8		AES
Selenium*	0.0035	0.0010	0.0006	mg/L	1	06/15/22 15:13	EPA200.8		AES

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 411 & Rule 615 Project Name / Number: March/April Rule 411 TEP Project Manager: Bruce Smith	Reported: 06/22/22 17:01
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**Tompkins MW-1**

**2206108-01 (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	06/09/22 17:00	Lab Procedure		LLG
<b>Slime-Forming Bacteria</b>	High Aggressivity			CFU/mL	1	06/09/22 17:00	Lab Procedure		LLG
<b>Sulfate-Reducing Bacteria</b>	Low Aggressivity			CFU/mL	1	06/09/22 17:00	Lab Procedure		LLG
<b>Cation/Anion Balance</b>	<b>-4.19</b>	-100	-100	%	1	06/21/22 11:26	Calculation		JDA

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

**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	<0.09	1	0.09	ug/L	1	06/16/22 10:21	8021B		JH
<b>Toluene*</b>	<0.1	1	0.1	ug/L	1	06/16/22 10:21	8021B		JH
<b>Ethylbenzene*</b>	<0.2	1	0.2	ug/L	1	06/16/22 10:21	8021B		JH
<b>Total Xylenes*</b>	<0.3	3	0.3	ug/L	1	06/16/22 10:21	8021B		JH
<b>Total BTEX</b>	<1	6	1	ug/L	1	06/16/22 10:21	8021B		JH

Surrogate: 4-Bromofluorobenzene (PID) 102 % 77.1-124 06/16/22 10:21 8021B JH

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<295	1000	295	ug/L	0.1	06/10/22 16:37	8015B		MS
<b>DRO &gt;C10-C28*</b>	<670	1000	670	ug/L	0.1	06/10/22 16:37	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<670	1000	670	ug/L	0.1	06/10/22 16:37	8015B		MS

Surrogate: 1-Chlorooctane 96.0 % 44.9-146 06/10/22 16:37 8015B MS

Surrogate: 1-Chlorooctadecane 98.9 % 39.8-162 06/10/22 16:37 8015B MS

**Polynuclear Aromatic Compounds by GC/MS**

<b>Naphthalene*</b>	<0.1	1	0.1	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>2-Methylnaphthalene*</b>	<0.07	1	0.07	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>1-Methylnaphthalene</b>	<0.07	0.5	0.07	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>Acenaphthylene*</b>	<0.07	1	0.07	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>Acenaphthene*</b>	<0.08	1	0.08	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>Fluorene*</b>	<0.03	1	0.03	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>Phenanthrene*</b>	<0.08	1	0.08	ug/L	0.96	06/15/22 16:02	8270C		MS
<b>Anthracene*</b>	<0.08	1	0.08	ug/L	0.96	06/15/22 16:02	8270C		MS

Green Analytical Laboratories

*Brenna Kampf*

Brenna Kampf, Project Manager

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Grand Junction CO, 81506

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Tompkins MW-1**

**2206108-01 (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**

**Polynuclear Aromatic Compounds by GC/MS**

Carbazole*	<0.1	1	0.1	ug/L	0.96	06/15/22 16:02	8270C		MS
Fluoranthene*	<0.06	1	0.06	ug/L	0.96	06/15/22 16:02	8270C		MS
Pyrene*	<0.08	1	0.08	ug/L	0.96	06/15/22 16:02	8270C		MS
Benzo[a]anthracene*	<0.06	1	0.06	ug/L	0.96	06/15/22 16:02	8270C		MS
Chrysene*	<0.06	1	0.06	ug/L	0.96	06/15/22 16:02	8270C		MS
Benzo[b]fluoranthene*	<0.1	1	0.1	ug/L	0.96	06/15/22 16:02	8270C		MS
Benzo[k]fluoranthene*	<0.07	1	0.07	ug/L	0.96	06/15/22 16:02	8270C		MS
Benzo[a]pyrene*	<0.04	0.2	0.04	ug/L	0.96	06/15/22 16:02	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.04	1	0.04	ug/L	0.96	06/15/22 16:02	8270C		MS
Dibenz[a,h]anthracene*	<0.4	1	0.4	ug/L	0.96	06/15/22 16:02	8270C		MS
Benzo[g,h,i]perylene*	<0.3	1	0.3	ug/L	0.96	06/15/22 16:02	8270C		MS
Surrogate: Nitrobenzene-d5			53.4 %	20.3-96.6		06/15/22 16:02	8270C		MS
Surrogate: 2-Fluorobiphenyl			54.5 %	18.9-97.9		06/15/22 16:02	8270C		MS
Surrogate: Terphenyl-d14			60.2 %	14.7-112		06/15/22 16:02	8270C		MS

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

**RSK-175**

Methane	<0.364	3.28	0.364	ug/l	1	06/17/22 09:32	RSK-175		TL
Ethane	<1.16	6.15	1.16	ug/l	1	06/17/22 09:32	RSK-175		TL
Propane	<0.577	9.02	0.577	ug/l	1	06/17/22 09:32	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 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Revell Spr**

**2206108-02 (Ground Water)**

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

Alkalinity, Bicarbonate as CaCO3*	300	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	<2.27	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B	U	VJW
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B	U	VJW
Alkalinity, Total as CaCO3*	300	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Bromide	0.240	0.100	0.0274	mg/L	1	06/16/22 21:21	EPA300.0		AES
Chloride*	5.27	1.00	0.0555	mg/L	1	06/16/22 21:21	EPA300.0		AES
Chromium VI, Dissolved	0.00873	0.0100	0.00512	mg/L	1	06/14/22 16:30	3500-Cr B	H1, J	HTB
Conductivity*	539	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS
Fluoride*	0.208	0.100	0.00971	mg/L	1	06/16/22 21:21	EPA300.0		AES
Nitrate as N*	0.944	0.020	0.007	mg/L	1	06/09/22 17:07	EPA300.0		AES
Nitrate+Nitrite as N by IC	0.944	0.0400	0.0110	mg/L	1	06/09/22 17:07	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	06/09/22 17:07	EPA300.0	M5, U	AES
pH*	7.71			pH Units	1	06/10/22 08:30	EPA150.1		PMS
pH Temperature, degrees C	16.6			pH Units	1	06/10/22 08:30	EPA150.1		PMS
Phosphorus, Total	0.0243	0.0500	0.0164	mg P/L	1	06/16/22 09:59	EPA365.1	J	AES
Total Dissolved Solids*	320	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW
Sulfate*	22.6	1.00	0.124	mg/L	1	06/16/22 21:21	EPA300.0		AES

**Dissolved Metals by ICP**

Boron	<0.122	0.300	0.122	mg/L	1	06/14/22 17:46	EPA200.7	U	AES
Calcium*	31.1	0.100	0.024	mg/L	1	06/14/22 17:46	EPA200.7		AES
Iron*	<0.036	0.050	0.036	mg/L	1	06/14/22 17:46	EPA200.7	U	AES
Magnesium*	28.2	0.100	0.031	mg/L	1	06/14/22 17:46	EPA200.7		AES
Potassium*	2.01	1.00	0.065	mg/L	1	06/14/22 17:46	EPA200.7		AES
Sodium*	41.2	1.00	0.106	mg/L	1	06/14/22 17:46	EPA200.7		AES
Strontium*	0.636	0.100	0.004	mg/L	1	06/14/22 17:46	EPA200.7		AES

**Dissolved Metals by ICPMS**

Arsenic*	0.0055	0.0005	0.0002	mg/L	1	06/15/22 15:15	EPA200.8		AES
Barium*	0.148	0.0005	0.0003	mg/L	1	06/15/22 15:15	EPA200.8		AES
Cadmium*	<0.00003	0.0005	0.00003	mg/L	1	06/15/22 15:15	EPA200.8	U	AES
Chromium*	0.0038	0.0010	0.0004	mg/L	1	06/15/22 15:15	EPA200.8		AES
Chromium III, Dissolved	<0.0100	0.0100	0.00512	mg/L	1	06/15/22 15:15	Calculation		HTB
Copper*	0.0020	0.0005	0.00008	mg/L	1	06/15/22 15:15	EPA200.8		AES
Lead*	<0.00009	0.0005	0.00009	mg/L	1	06/15/22 15:15	EPA200.8	U	AES
Manganese*	0.0005	0.0005	0.00009	mg/L	1	06/15/22 15:15	EPA200.8		AES

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Brenna Kampf, Project Manager

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**Revell Spr**

**2206108-02 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Dissolved Metals by ICPMS**

Nickel*	0.0014	0.0005	0.0002	mg/L	1	06/15/22 15:15	EPA200.8		AES
Selenium*	0.0031	0.0010	0.0006	mg/L	1	06/15/22 15:15	EPA200.8		AES
Silver*	0.0055	0.0002	0.00009	mg/L	1	06/15/22 15:15	EPA200.8		AES
Zinc*	0.0017	0.0020	0.0003	mg/L	1	06/15/22 15:15	EPA200.8	J	AES

**Other**

Cation/Anion Balance	-7.25	-100	-100	%	1	06/21/22 11:26	Calculation		JDA
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<295	1000	295	ug/L	0.1	06/10/22 17:02	8015B		MS
DRO >C10-C28*	<670	1000	670	ug/L	0.1	06/10/22 17:02	8015B		MS
EXT DRO >C28-C36	<670	1000	670	ug/L	0.1	06/10/22 17:02	8015B		MS
Surrogate: 1-Chlorooctane			95.6 %	44.9-146		06/10/22 17:02	8015B		MS
Surrogate: 1-Chlorooctadecane			99.0 %	39.8-162		06/10/22 17:02	8015B		MS

**VOLATILES BY GC/MS**

Benzene*	<0.09	0.5	0.09	ug/L	1	06/14/22 11:13	8260B		MS
Toluene*	<0.07	0.5	0.07	ug/L	1	06/14/22 11:13	8260B		MS
Ethylbenzene*	<0.09	0.5	0.09	ug/L	1	06/14/22 11:13	8260B		MS
m+p - Xylene*	<0.5	1	0.5	ug/L	1	06/14/22 11:13	8260B		MS
o-Xylene*	<0.07	0.5	0.07	ug/L	1	06/14/22 11:13	8260B		MS
Total Xylenes*	<0.5	2	0.5	ug/L	1	06/14/22 11:13	8260B		MS
1,3,5-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	06/14/22 11:13	8260B		MS
1,2,4-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	06/14/22 11:13	8260B		MS
Naphthalene*	<0.04	0.5	0.04	ug/L	1	06/14/22 11:13	8260B		MS
Surrogate: Dibromofluoromethane			103 %	82.4-141		06/14/22 11:13	8260B		MS
Surrogate: Toluene-d8			99.8 %	87.1-110		06/14/22 11:13	8260B		MS
Surrogate: 4-Bromofluorobenzene			100 %	76.4-114		06/14/22 11:13	8260B		MS

**Polynuclear Aromatic Compounds by GC/MS**

Green Analytical Laboratories

*Brenna Kampf*

Brenna Kampf, Project Manager

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**Revell Spr**

**2206108-02 (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**

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.09	0.9	0.09	ug/L	0.94	06/15/22 16:32	8270C		MS
2-Methylnaphthalene*	<0.07	0.9	0.07	ug/L	0.94	06/15/22 16:32	8270C		MS
1-Methylnaphthalene	<0.07	0.5	0.07	ug/L	0.94	06/15/22 16:32	8270C		MS
Acenaphthylene*	<0.07	0.9	0.07	ug/L	0.94	06/15/22 16:32	8270C		MS
Acenaphthene*	<0.08	0.9	0.08	ug/L	0.94	06/15/22 16:32	8270C		MS
Fluorene*	<0.03	0.9	0.03	ug/L	0.94	06/15/22 16:32	8270C		MS
Phenanthrene*	<0.08	0.9	0.08	ug/L	0.94	06/15/22 16:32	8270C		MS
Anthracene*	<0.08	0.9	0.08	ug/L	0.94	06/15/22 16:32	8270C		MS
Carbazole*	<0.09	0.9	0.09	ug/L	0.94	06/15/22 16:32	8270C		MS
Fluoranthene*	<0.06	0.9	0.06	ug/L	0.94	06/15/22 16:32	8270C		MS
Pyrene*	<0.08	0.9	0.08	ug/L	0.94	06/15/22 16:32	8270C		MS
Benzo[a]anthracene*	<0.06	0.9	0.06	ug/L	0.94	06/15/22 16:32	8270C		MS
Chrysene*	<0.06	0.9	0.06	ug/L	0.94	06/15/22 16:32	8270C		MS
Benzo[b]flouranthene*	<0.1	0.9	0.1	ug/L	0.94	06/15/22 16:32	8270C		MS
Benzo[k]flouranthene*	<0.07	0.9	0.07	ug/L	0.94	06/15/22 16:32	8270C		MS
Benzo[a]pyrene*	<0.04	0.2	0.04	ug/L	0.94	06/15/22 16:32	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.04	0.9	0.04	ug/L	0.94	06/15/22 16:32	8270C		MS
Dibenz[a,h]anthracene*	<0.4	0.9	0.4	ug/L	0.94	06/15/22 16:32	8270C		MS
Benzo[g,h,i]perylene*	<0.3	0.9	0.3	ug/L	0.94	06/15/22 16:32	8270C		MS

Surrogate: Nitrobenzene-d5		61.4 %	20.3-96.6			06/15/22 16:32	8270C		MS
Surrogate: 2-Fluorobiphenyl		65.3 %	18.9-97.9			06/15/22 16:32	8270C		MS
Surrogate: Terphenyl-dl4		69.5 %	14.7-112			06/15/22 16:32	8270C		MS

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Brenna Kampf, Project Manager

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

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Tompkins Gully**

**2206108-03 (Ground Water)**

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

Alkalinity, Bicarbonate as CaCO3*	315	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Carbonate as CaCO3*	110	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Alkalinity, Hydroxide as CaCO3*	<2.27	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B	U	VJW
Alkalinity, Total as CaCO3*	425	10.0	2.27	mg/L	5	06/20/22 13:00	2320 B		VJW
Bromide	0.0580	0.100	0.0274	mg/L	1	06/16/22 21:41	EPA300.0	J	AES
Chloride*	6.02	1.00	0.0555	mg/L	1	06/16/22 21:41	EPA300.0		AES
Chromium VI, Dissolved	0.00873	0.0100	0.00512	mg/L	1	06/14/22 16:30	3500-Cr B	H1, J	HTB
Conductivity*	742	1.00		umho/cm @ 25.0°C	1	06/10/22 08:30	2510 B		PMS
Fluoride*	0.241	0.100	0.00971	mg/L	1	06/16/22 21:41	EPA300.0		AES
Nitrate as N*	0.062	0.020	0.007	mg/L	1	06/09/22 18:04	EPA300.0		AES
Nitrate+Nitrite as N by IC	0.0616	0.0400	0.0110	mg/L	1	06/09/22 18:04	EPA300.0		AES
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	06/09/22 18:04	EPA300.0	U	AES
pH*	8.33			pH Units	1	06/10/22 08:30	EPA150.1		PMS
pH Temperature, degrees C	18.1			pH Units	1	06/10/22 08:30	EPA150.1		PMS
Phosphorus, Total	0.0395	0.0500	0.0164	mg P/L	1	06/16/22 10:00	EPA365.1	J	AES
Total Dissolved Solids*	440	10.0		mg/L	1	06/10/22 16:05	EPA160.1		VJW
Sulfate*	26.3	1.00	0.124	mg/L	1	06/16/22 21:41	EPA300.0		AES

**Dissolved Metals by ICP**

Boron	<0.122	0.300	0.122	mg/L	1	06/14/22 17:48	EPA200.7	U	AES
Calcium*	49.2	0.100	0.024	mg/L	1	06/14/22 17:48	EPA200.7		AES
Iron*	<0.036	0.050	0.036	mg/L	1	06/14/22 17:48	EPA200.7	U	AES
Magnesium*	39.6	0.100	0.031	mg/L	1	06/14/22 17:48	EPA200.7		AES
Potassium*	2.74	1.00	0.065	mg/L	1	06/14/22 17:48	EPA200.7		AES
Sodium*	54.5	1.00	0.106	mg/L	1	06/14/22 17:48	EPA200.7		AES
Strontium*	0.877	0.100	0.004	mg/L	1	06/14/22 17:48	EPA200.7		AES

**Dissolved Metals by ICPMS**

Arsenic*	0.0075	0.0005	0.0002	mg/L	1	06/15/22 15:19	EPA200.8		AES
Barium*	0.135	0.0005	0.0003	mg/L	1	06/15/22 15:19	EPA200.8		AES
Cadmium*	<0.00003	0.0005	0.00003	mg/L	1	06/15/22 15:19	EPA200.8	U	AES
Chromium*	0.0047	0.0010	0.0004	mg/L	1	06/15/22 15:19	EPA200.8		AES
Chromium III, Dissolved	<0.0100	0.0100	0.00512	mg/L	1	06/15/22 15:19	Calculation		HTB
Copper*	0.0025	0.0005	0.00008	mg/L	1	06/15/22 15:19	EPA200.8		AES
Lead*	<0.00009	0.0005	0.00009	mg/L	1	06/15/22 15:19	EPA200.8	U	AES
Manganese*	0.0034	0.0005	0.00009	mg/L	1	06/15/22 15:19	EPA200.8		AES

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Brenna Kampf, Project Manager

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 & Rule 615 Project Name / Number: March/April Rule 411 TEP Project Manager: Bruce Smith	Reported: 06/22/22 17:01
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**Tompkins Gully**

**2206108-03 (Ground Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**Dissolved Metals by ICPMS**

Nickel*	0.0024	0.0005	0.0002	mg/L	1	06/15/22 15:19	EPA200.8		AES
Selenium*	0.0014	0.0010	0.0006	mg/L	1	06/15/22 15:19	EPA200.8		AES
Silver*	<0.00009	0.0002	0.00009	mg/L	1	06/15/22 15:19	EPA200.8	U	AES
Zinc*	0.0009	0.0020	0.0003	mg/L	1	06/15/22 15:19	EPA200.8	J	AES

**Other**

Cation/Anion Balance	-6.05	-100	-100	%	1	06/21/22 11:26	Calculation		JDA
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**Subcontracted -- Cardinal Laboratories 101 East Marland Hobbs, NM 88240**

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<295	1000	295	ug/L	0.1	06/10/22 17:28	8015B		MS
DRO >C10-C28*	<670	1000	670	ug/L	0.1	06/10/22 17:28	8015B		MS
EXT DRO >C28-C36	<670	1000	670	ug/L	0.1	06/10/22 17:28	8015B		MS
Surrogate: 1-Chlorooctane			98.4 % 44.9-146			06/10/22 17:28	8015B		MS
Surrogate: 1-Chlorooctadecane			99.3 % 39.8-162			06/10/22 17:28	8015B		MS

**VOLATILES BY GC/MS**

Benzene*	<0.09	0.5	0.09	ug/L	1	06/14/22 11:35	8260B		MS
Toluene*	<0.07	0.5	0.07	ug/L	1	06/14/22 11:35	8260B		MS
Ethylbenzene*	<0.09	0.5	0.09	ug/L	1	06/14/22 11:35	8260B		MS
m+p - Xylene*	<0.5	1	0.5	ug/L	1	06/14/22 11:35	8260B		MS
o-Xylene*	<0.07	0.5	0.07	ug/L	1	06/14/22 11:35	8260B		MS
Total Xylenes*	<0.5	2	0.5	ug/L	1	06/14/22 11:35	8260B		MS
1,3,5-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	06/14/22 11:35	8260B		MS
1,2,4-Trimethylbenzene	<0.03	0.5	0.03	ug/L	1	06/14/22 11:35	8260B		MS
Naphthalene*	<0.04	0.5	0.04	ug/L	1	06/14/22 11:35	8260B		MS
Surrogate: Dibromofluoromethane			104 % 82.4-141			06/14/22 11:35	8260B		MS
Surrogate: Toluene-d8			99.3 % 87.1-110			06/14/22 11:35	8260B		MS
Surrogate: 4-Bromofluorobenzene			99.0 % 76.4-114			06/14/22 11:35	8260B		MS

**Polynuclear Aromatic Compounds by GC/MS**

Green Analytical Laboratories

*Brenna Kampf*

Brenna Kampf, Project Manager

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

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Tompkins Gully**

**2206108-03 (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**

**Polynuclear Aromatic Compounds by GC/MS**

Naphthalene*	<0.1	1	0.1	ug/L	0.96	06/15/22 17:02	8270C		MS
2-Methylnaphthalene*	<0.07	1	0.07	ug/L	0.96	06/15/22 17:02	8270C		MS
1-Methylnaphthalene	<0.07	0.5	0.07	ug/L	0.96	06/15/22 17:02	8270C		MS
Acenaphthylene*	<0.07	1	0.07	ug/L	0.96	06/15/22 17:02	8270C		MS
Acenaphthene*	<0.08	1	0.08	ug/L	0.96	06/15/22 17:02	8270C		MS
Fluorene*	<0.03	1	0.03	ug/L	0.96	06/15/22 17:02	8270C		MS
Phenanthrene*	<0.08	1	0.08	ug/L	0.96	06/15/22 17:02	8270C		MS
Anthracene*	<0.08	1	0.08	ug/L	0.96	06/15/22 17:02	8270C		MS
Carbazole*	<0.1	1	0.1	ug/L	0.96	06/15/22 17:02	8270C		MS
Fluoranthene*	<0.06	1	0.06	ug/L	0.96	06/15/22 17:02	8270C		MS
Pyrene*	<0.08	1	0.08	ug/L	0.96	06/15/22 17:02	8270C		MS
Benzo[a]anthracene*	<0.06	1	0.06	ug/L	0.96	06/15/22 17:02	8270C		MS
Chrysene*	<0.06	1	0.06	ug/L	0.96	06/15/22 17:02	8270C		MS
Benzo[b]flouranthene*	<0.1	1	0.1	ug/L	0.96	06/15/22 17:02	8270C		MS
Benzo[k]flouranthene*	<0.07	1	0.07	ug/L	0.96	06/15/22 17:02	8270C		MS
Benzo[a]pyrene*	<0.04	0.2	0.04	ug/L	0.96	06/15/22 17:02	8270C		MS
Indeno[1,2,3-cd]pyrene*	<0.04	1	0.04	ug/L	0.96	06/15/22 17:02	8270C		MS
Dibenz[a,h]anthracene*	<0.4	1	0.4	ug/L	0.96	06/15/22 17:02	8270C		MS
Benzo[g,h,i]perylene*	<0.3	1	0.3	ug/L	0.96	06/15/22 17:02	8270C		MS
Surrogate: Nitrobenzene-d5			63.5 %	20.3-96.6		06/15/22 17:02	8270C		MS
Surrogate: 2-Fluorobiphenyl			67.2 %	18.9-97.9		06/15/22 17:02	8270C		MS
Surrogate: Terphenyl-d14			73.6 %	14.7-112		06/15/22 17:02	8270C		MS

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 411 & Rule 615 Project Name / Number: March/April Rule 411 TEP Project Manager: Bruce Smith	Reported: 06/22/22 17:01
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**TB**

**2206108-04 (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	06/14/22 11:57	8260B		MS
<b>Toluene*</b>	<0.07	0.5	0.07	ug/L	1	06/14/22 11:57	8260B		MS
<b>Ethylbenzene*</b>	<0.09	0.5	0.09	ug/L	1	06/14/22 11:57	8260B		MS
<b>m+p - Xylene*</b>	<0.5	1	0.5	ug/L	1	06/14/22 11:57	8260B		MS
<b>o-Xylene*</b>	<0.07	0.5	0.07	ug/L	1	06/14/22 11:57	8260B		MS
<b>Total Xylenes*</b>	<0.5	2	0.5	ug/L	1	06/14/22 11:57	8260B		MS
<b>1,3,5-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	06/14/22 11:57	8260B		MS
<b>1,2,4-Trimethylbenzene</b>	<0.03	0.5	0.03	ug/L	1	06/14/22 11:57	8260B		MS
<b>Naphthalene*</b>	<0.04	0.5	0.04	ug/L	1	06/14/22 11:57	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			101 %	82.4-141		06/14/22 11:57	8260B		MS
<i>Surrogate: Toluene-d8</i>			99.2 %	87.1-110		06/14/22 11:57	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			97.8 %	76.4-114		06/14/22 11:57	8260B		MS

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 411 & Rule 615 Project Name / Number: March/April Rule 411 TEP Project Manager: Bruce Smith	Reported: 06/22/22 17:01
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**General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B221521 - IC- Ion Chromatograph**

<b>Blank (B221521-BLK1)</b>										
Prepared & Analyzed: 06/09/22										
Nitrate as N	ND	0.020	mg/L							U
Nitrite as N	ND	0.020	mg/L							U

<b>LCS (B221521-BS1)</b>										
Prepared & Analyzed: 06/09/22										
Nitrate as N	1.03	0.020	mg/L	1.00		103	90-110			
Nitrite as N	1.03	0.020	mg/L	1.00		103	90-110			

<b>LCS Dup (B221521-BSD1)</b>										
Prepared & Analyzed: 06/09/22										
Nitrate as N	1.02	0.020	mg/L	1.00		102	90-110	1.12	20	
Nitrite as N	1.03	0.020	mg/L	1.00		103	90-110	0.311	20	

**Batch B221535 - General Prep - Wet Chem**

<b>Blank (B221535-BLK1)</b>										
Prepared & Analyzed: 06/10/22										
Total Dissolved Solids	ND	10.0	mg/L							U

<b>Duplicate (B221535-DUP1)</b>										
Source: 2206099-05 Prepared & Analyzed: 06/10/22										
Total Dissolved Solids	605	10.0	mg/L		600			0.839	20	

<b>Reference (B221535-SRM1)</b>										
Prepared & Analyzed: 06/10/22										
Total Dissolved Solids	420	10.0	mg/L	380		111	85-115			

**Batch B221552 - General Prep - Wet Chem**

<b>Duplicate (B221552-DUP2)</b>										
Source: 2206111-01 Prepared & Analyzed: 06/10/22										
pH	6.57		pH Units		6.54			0.458	20	
pH Temperature, degrees C	18.7		pH Units		18.2			2.71	200	

<b>Reference (B221552-SRM1)</b>										
Prepared & Analyzed: 06/10/22										
pH	7.00		pH Units	7.00		100	98.57-101.42			

**Batch B221555 - General Prep - Wet Chem**

<b>Duplicate (B221555-DUP2)</b>										
Source: 2206111-01 Prepared & Analyzed: 06/10/22										
Conductivity	104000	1.00	umho/cm @ 25.0°C		105000			1.25	20	

<b>Reference (B221555-SRM1)</b>										
Prepared & Analyzed: 06/10/22										
Conductivity	1020	1.00	umho/cm @ 25.0°C	1000		102	90-110			

**Batch B221570 - Lachat**

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Brenna Kampf, Project Manager

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

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Blank (B221570-BLK1)</b>										
Prepared: 06/14/22 Analyzed: 06/16/22										
Phosphorus, Total	ND	0.0500	mg P/L							U
<b>LCS (B221570-BS1)</b>										
Prepared: 06/14/22 Analyzed: 06/16/22										
Phosphorus, Total	2.64	0.0500	mg P/L	2.50		105	90-110			
<b>LCS Dup (B221570-BSD1)</b>										
Prepared: 06/14/22 Analyzed: 06/16/22										
Phosphorus, Total	2.64	0.0500	mg P/L	2.50		105	90-110	0.0114	20	
<b>Batch B221575 - IC- Ion Chromatograph</b>										
<b>Blank (B221575-BLK1)</b>										
Prepared: 06/15/22 Analyzed: 06/16/22										
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 (B221575-BS1)</b>										
Prepared: 06/15/22 Analyzed: 06/16/22										
Bromide	2.56	0.100	mg/L	2.50		102	90-110			
Chloride	24.3	1.00	mg/L	25.0		97.0	90-110			
Fluoride	2.35	0.100	mg/L	2.50		94.1	90-110			
Sulfate	23.0	1.00	mg/L	25.0		92.1	90-110			
<b>LCS Dup (B221575-BSD1)</b>										
Prepared: 06/15/22 Analyzed: 06/16/22										
Bromide	2.58	0.100	mg/L	2.50		103	90-110	0.895	20	
Chloride	24.8	1.00	mg/L	25.0		99.3	90-110	2.34	20	
Fluoride	2.40	0.100	mg/L	2.50		95.8	90-110	1.77	20	
Sulfate	23.4	1.00	mg/L	25.0		93.7	90-110	1.72	20	
<b>Batch B221625 - General Prep - Wet Chem</b>										
<b>Blank (B221625-BLK1)</b>										
Prepared & Analyzed: 06/20/22										
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 (B221625-BS1)</b>										
Prepared & Analyzed: 06/20/22										
Alkalinity, Bicarbonate as CaCO3	99.0	10.0	mg/L	100		99.0	85-115			
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L				85-115			U
Alkalinity, Total as CaCO3	99.0	10.0	mg/L	100		99.0	85-115			
<b>LCS Dup (B221625-BSD1)</b>										
Prepared & Analyzed: 06/20/22										
Alkalinity, Bicarbonate as CaCO3	102	10.0	mg/L	100		102	85-115	2.99	20	

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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 B221625 - General Prep - Wet Chem (Continued)**

**LCS Dup (B221625-BSD1) (Continued)**

Prepared & Analyzed: 06/20/22

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	102	10.0	mg/L	100		102	85-115	2.99	20	

**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 B221568 - Dissolved ICP**

**Blank (B221568-BLK1)**

Prepared & Analyzed: 06/14/22

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	ND	1.00	mg/L							U
Strontium	ND	0.100	mg/L							U

**LCS (B221568-BS1)**

Prepared & Analyzed: 06/14/22

Boron	4.79	0.300	mg/L	5.00		95.7	85-115			
Calcium	4.76	0.100	mg/L	5.00		95.2	85-115			
Iron	4.58	0.050	mg/L	5.00		91.6	85-115			
Magnesium	24.2	0.100	mg/L	25.0		96.8	85-115			
Potassium	9.65	1.00	mg/L	10.0		96.5	85-115			
Sodium	3.83	1.00	mg/L	4.05		94.6	85-115			
Strontium	4.83	0.100	mg/L	5.00		96.6	85-115			

**LCS Dup (B221568-BSD1)**

Prepared & Analyzed: 06/14/22

Boron	4.96	0.300	mg/L	5.00		99.2	85-115	3.55	20	
Calcium	4.89	0.100	mg/L	5.00		97.7	85-115	2.66	20	
Iron	4.70	0.050	mg/L	5.00		94.0	85-115	2.59	20	
Magnesium	24.8	0.100	mg/L	25.0		99.4	85-115	2.63	20	
Potassium	9.82	1.00	mg/L	10.0		98.2	85-115	1.76	20	
Sodium	3.91	1.00	mg/L	4.05		96.6	85-115	2.09	20	
Strontium	4.92	0.100	mg/L	5.00		98.5	85-115	1.98	20	

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Grand Junction CO, 81506

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**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 B221506 - Dissolved ICPMS**

**Blank (B221506-BLK1)**

Prepared: 06/14/22 Analyzed: 06/15/22

Arsenic	ND	0.0005	mg/L							U
Barium	ND	0.0005	mg/L							U
Cadmium	ND	0.0005	mg/L							U
Chromium	ND	0.0010	mg/L							U
Copper	ND	0.0005	mg/L							U
Lead	ND	0.0005	mg/L							U
Manganese	ND	0.0005	mg/L							U
Nickel	ND	0.0005	mg/L							U
Selenium	ND	0.0010	mg/L							U
Silver	ND	0.0002	mg/L							U
Zinc	ND	0.0020	mg/L							U

**LCS (B221506-BS1)**

Prepared: 06/14/22 Analyzed: 06/15/22

Arsenic	0.0499	0.0005	mg/L	0.0500		99.8	85-115			
Barium	0.0495	0.0005	mg/L	0.0500		99.0	85-115			
Cadmium	0.0502	0.0005	mg/L	0.0500		100	85-115			
Chromium	0.0489	0.0010	mg/L	0.0500		97.8	85-115			
Copper	0.0499	0.0005	mg/L	0.0500		99.9	85-115			
Lead	0.0485	0.0005	mg/L	0.0500		96.9	85-115			
Manganese	0.0505	0.0005	mg/L	0.0500		101	85-115			
Nickel	0.0498	0.0005	mg/L	0.0500		99.6	85-115			
Selenium	0.247	0.0010	mg/L	0.250		98.8	85-115			
Silver	0.0500	0.0002	mg/L	0.0500		100	85-115			
Zinc	0.0506	0.0020	mg/L	0.0500		101	85-115			

**LCS Dup (B221506-BSD1)**

Prepared: 06/14/22 Analyzed: 06/15/22

Arsenic	0.0503	0.0005	mg/L	0.0500		101	85-115	0.756	20	
Barium	0.0504	0.0005	mg/L	0.0500		101	85-115	1.84	20	
Cadmium	0.0500	0.0005	mg/L	0.0500		100	85-115	0.300	20	
Chromium	0.0487	0.0010	mg/L	0.0500		97.3	85-115	0.532	20	
Copper	0.0499	0.0005	mg/L	0.0500		99.7	85-115	0.157	20	
Lead	0.0487	0.0005	mg/L	0.0500		97.5	85-115	0.589	20	
Manganese	0.0512	0.0005	mg/L	0.0500		102	85-115	1.42	20	
Nickel	0.0501	0.0005	mg/L	0.0500		100	85-115	0.481	20	
Selenium	0.250	0.0010	mg/L	0.250		99.8	85-115	1.00	20	
Silver	0.0492	0.0002	mg/L	0.0500		98.4	85-115	1.72	20	
Zinc	0.0502	0.0020	mg/L	0.0500		100	85-115	0.648	20	

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**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 22F0264 - EPA 3810m Headspace**

**Blank (22F0264-BLK1)**

Prepared: 06/15/22 Analyzed: 06/17/22

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

**LCS (22F0264-BS1)**

Prepared: 06/15/22 Analyzed: 06/17/22

Ethane	1160	6.15	ug/l	1230		94.1	75-125			
Methane	659	3.28	ug/l	656		100	75-125			

**Duplicate (22F0264-DUP1)**

Source: T221693-03 Prepared: 06/15/22 Analyzed: 06/17/22

Ethane	ND	6.15	ug/l		ND				20	
Methane	ND	3.28	ug/l		ND				20	

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Volatile Organic Compounds by EPA Method 8021 - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 2061324 - Volatiles**

**Blank (2061324-BLK1)**

Prepared: 06/13/22 Analyzed: 06/16/22

Surrogate: 4-Bromofluorobenzene (PID)	50.1		ug/L	50.0		100	77.1-124			
Benzene	ND	1	ug/L							
Ethylbenzene	ND	1	ug/L							
Toluene	ND	1	ug/L							
Total BTEX	ND	6	ug/L							
Total Xylenes	ND	3	ug/L							

**LCS (2061324-BS1)**

Prepared: 06/13/22 Analyzed: 06/16/22

Surrogate: 4-Bromofluorobenzene (PID)	50.4		ug/L	50.0		101	77.1-124			
Benzene	20	1	ug/L	20.0		99.9	94.7-118			
Ethylbenzene	19	1	ug/L	20.0		92.8	94-114			BS-3
m,p-Xylene	40	2	ug/L	40.0		101	94.6-114			
o-Xylene	19	1	ug/L	20.0		96.0	94.6-114			
Toluene	19	1	ug/L	20.0		96.4	89-115			
Total Xylenes	59	3	ug/L	60.0		99.0	94.6-114			

**LCS Dup (2061324-BSD1)**

Prepared: 06/13/22 Analyzed: 06/16/22

Surrogate: 4-Bromofluorobenzene (PID)	50.3		ug/L	50.0		101	77.1-124			
Benzene	20	1	ug/L	20.0		98.6	94.7-118	1.35	3.83	
Ethylbenzene	18	1	ug/L	20.0		91.7	94-114	1.19	3.79	BS-3
m,p-Xylene	39	2	ug/L	40.0		98.5	94.6-114	1.98	3.91	
o-Xylene	19	1	ug/L	20.0		95.0	94.6-114	1.04	3.91	
Toluene	19	1	ug/L	20.0		95.3	89-115	1.17	3.48	
Total Xylenes	58	3	ug/L	60.0		97.4	94.6-114	1.68	3.91	

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Western Water & Land, Inc.  
743 Horizon Ct, Suite 330  
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Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**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 2061012 - General Prep - Organics**

**Blank (2061012-BLK1)**

Prepared & Analyzed: 06/10/22

Surrogate: 1-Chlorooctadecane	5410		ug/L	5000		108	39.8-162			
Surrogate: 1-Chlorooctane	5260		ug/L	5000		105	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 (2061012-BS1)**

Prepared & Analyzed: 06/10/22

Surrogate: 1-Chlorooctadecane	6940		ug/L	5000		139	39.8-162			
Surrogate: 1-Chlorooctane	6200		ug/L	5000		124	44.9-146			
DRO >C10-C28	45600	1000	ug/L	50000		91.2	70-121			
GRO C6-C10	48700	1000	ug/L	50000		97.4	72.4-116			

**LCS Dup (2061012-BSD1)**

Prepared & Analyzed: 06/10/22

Surrogate: 1-Chlorooctadecane	6960		ug/L	5000		139	39.8-162			
Surrogate: 1-Chlorooctane	7130		ug/L	5000		143	44.9-146			
DRO >C10-C28	44100	1000	ug/L	50000		88.1	70-121	3.44	24.8	
GRO C6-C10	48900	1000	ug/L	50000		97.7	72.4-116	0.406	8.73	

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Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**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 2061316 - Volatiles**

**Blank (2061316-BLK1)**

Prepared & Analyzed: 06/13/22

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		99.0	76.4-114			
Benzene	ND	0.5	ug/L							
<i>Surrogate: Dibromofluoromethane</i>	26.1		ug/L	25.0		104	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>	25.2		ug/L	25.0		101	87.1-110			
Total Xylenes	ND	2	ug/L							

**LCS (2061316-BS1)**

Prepared & Analyzed: 06/13/22

1,2,4-Trimethylbenzene	22	0.5	ug/L	20.0		110	85.2-120			
1,3,5-Trimethylbenzene	22	0.5	ug/L	20.0		109	84.3-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	25.1		ug/L	25.0		100	76.4-114			
Benzene	21	0.5	ug/L	20.0		103	85.9-114			
<i>Surrogate: Dibromofluoromethane</i>	26.1		ug/L	25.0		104	82.4-141			
Ethylbenzene	20	0.5	ug/L	20.0		99.6	81.8-127			
m+p - Xylene	44	1	ug/L	40.0		110	72.4-134			
Naphthalene	27	0.5	ug/L	20.0		135	59.3-140			
o-Xylene	22	0.5	ug/L	20.0		108	76.2-135			
Toluene	21	0.5	ug/L	20.0		104	78.8-121			
<i>Surrogate: Toluene-d8</i>	25.0		ug/L	25.0		100	87.1-110			
Total Xylenes	66	2	ug/L	60.0		109	74.3-134			

**LCS Dup (2061316-BSD1)**

Prepared & Analyzed: 06/13/22

1,2,4-Trimethylbenzene	20	0.5	ug/L	20.0		102	85.2-120	7.62	8.94	
1,3,5-Trimethylbenzene	20	0.5	ug/L	20.0		102	84.3-120	7.20	16.5	
<i>Surrogate: 4-Bromofluorobenzene</i>	25.2		ug/L	25.0		101	76.4-114			
Benzene	20	0.5	ug/L	20.0		101	85.9-114	2.15	4.16	
<i>Surrogate: Dibromofluoromethane</i>	26.1		ug/L	25.0		105	82.4-141			
Ethylbenzene	20	0.5	ug/L	20.0		99.6	81.8-127	0.0502	4.83	
m+p - Xylene	44	1	ug/L	40.0		110	72.4-134	0.0909	5.77	
Naphthalene	21	0.5	ug/L	20.0		106	59.3-140	23.5	33.5	
o-Xylene	21	0.5	ug/L	20.0		104	76.2-135	3.35	6.29	
Toluene	21	0.5	ug/L	20.0		104	78.8-121	0.00	5.67	

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**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 2061316 - Volatiles (Continued)**

**LCS Dup (2061316-BSD1) (Continued)**

Prepared & Analyzed: 06/13/22

Surrogate: Toluene-d8	25.4		ug/L	25.0		102	87.1-110			
Total Xylenes	65	2	ug/L	60.0		108	74.3-134	1.03	5.83	

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Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Polynuclear Aromatic Compounds 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 2060808 - SW846-3510**

**Blank (2060808-BLK1)**

Prepared: 06/08/22 Analyzed: 06/15/22

1-Methylnaphthalene	ND	0.5	ug/L							
<i>Surrogate: 2-Fluorobiphenyl</i>	39.2		ug/L	50.0		78.4	18.9-97.9			
2-Methylnaphthalene	ND	1	ug/L							
Acenaphthene	ND	1	ug/L							
Acenaphthylene	ND	1	ug/L							
Anthracene	ND	1	ug/L							
Benzo[a]anthracene	ND	1	ug/L							
Benzo[a]pyrene	ND	0.2	ug/L							
Benzo[b]flouranthene	ND	1	ug/L							
Benzo[g,h,i]perylene	ND	1	ug/L							
Benzo[k]flouranthene	ND	1	ug/L							
Carbazole	ND	1	ug/L							
Chrysene	ND	1	ug/L							
Dibenz[a,h]anthracene	ND	1	ug/L							
Fluoranthene	ND	1	ug/L							
Fluorene	ND	1	ug/L							
Indeno[1,2,3-cd]pyrene	ND	1	ug/L							
Naphthalene	ND	1	ug/L							
<i>Surrogate: Nitrobenzene-d5</i>	35.6		ug/L	50.0		71.1	20.3-96.6			
Phenanthrene	ND	1	ug/L							
Pyrene	ND	1	ug/L							
<i>Surrogate: Terphenyl-dl4</i>	38.1		ug/L	50.0		76.2	14.7-112			

**LCS (2060808-BS1)**

Prepared: 06/08/22 Analyzed: 06/15/22

1-Methylnaphthalene	7	0.5	ug/L	10.0		68.5	21.2-116			
<i>Surrogate: 2-Fluorobiphenyl</i>	37.9		ug/L	50.0		75.7	18.9-97.9			
2-Methylnaphthalene	7	1	ug/L	10.0		70.5	21-115			
Acenaphthene	8	1	ug/L	10.0		78.4	21.5-122			
Acenaphthylene	7	1	ug/L	10.0		72.7	24.2-119			
Anthracene	8	1	ug/L	10.0		76.0	27-127			
Benzo[a]anthracene	7	1	ug/L	10.0		70.6	21.9-134			
Benzo[a]pyrene	6	0.2	ug/L	10.0		61.1	23.6-140			
Benzo[b]flouranthene	7	1	ug/L	10.0		69.5	20.4-144			
Benzo[g,h,i]perylene	7	1	ug/L	10.0		67.2	24.8-126			
Benzo[k]flouranthene	7	1	ug/L	10.0		69.8	21.8-139			
Carbazole	7	1	ug/L	10.0		74.5	26.4-128			
Chrysene	7	1	ug/L	10.0		73.2	22.2-133			
Dibenz[a,h]anthracene	7	1	ug/L	10.0		68.4	20.3-133			
Fluoranthene	8	1	ug/L	10.0		76.8	27.2-128			

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 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Polynuclear Aromatic Compounds 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 2060808 - SW846-3510 (Continued)**

**LCS (2060808-BS1) (Continued)**

Prepared: 06/08/22 Analyzed: 06/15/22

Fluorene	7	1	ug/L	10.0		71.9	22.9-124			
Indeno[1,2,3-cd]pyrene	7	1	ug/L	10.0		71.3	21.8-132			
Naphthalene	7	1	ug/L	10.0		73.3	18.1-117			
<i>Surrogate: Nitrobenzene-d5</i>	<i>31.8</i>		ug/L	<i>50.0</i>		<i>63.6</i>	<i>20.3-96.6</i>			
Phenanthrene	8	1	ug/L	10.0		75.3	25.6-128			
Pyrene	7	1	ug/L	10.0		71.6	19.1-137			
<i>Surrogate: Terphenyl-d14</i>	<i>37.1</i>		ug/L	<i>50.0</i>		<i>74.3</i>	<i>14.7-112</i>			

**LCS Dup (2060808-BS1)**

Prepared: 06/08/22 Analyzed: 06/15/22

1-Methylnaphthalene	7	0.5	ug/L	10.0		71.2	21.2-116	3.87	4.3	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>37.8</i>		ug/L	<i>50.0</i>		<i>75.7</i>	<i>18.9-97.9</i>			
2-Methylnaphthalene	7	1	ug/L	10.0		69.7	21-115	1.14	4.47	
Acenaphthene	8	1	ug/L	10.0		78.2	21.5-122	0.255	3.77	
Acenaphthylene	7	1	ug/L	10.0		71.0	24.2-119	2.37	3.88	
Anthracene	8	1	ug/L	10.0		75.3	27-127	0.925	4.49	
Benzo[a]anthracene	7	1	ug/L	10.0		71.4	21.9-134	1.13	3.03	
Benzo[a]pyrene	6	0.2	ug/L	10.0		61.6	23.6-140	0.815	3.27	
Benzo[b]flouranthene	7	1	ug/L	10.0		71.5	20.4-144	2.84	6.95	
Benzo[g,h,i]perylene	7	1	ug/L	10.0		66.5	24.8-126	1.05	6.35	
Benzo[k]flouranthene	7	1	ug/L	10.0		72.5	21.8-139	3.79	8.16	
Carbazole	7	1	ug/L	10.0		74.0	26.4-128	0.673	4.78	
Chrysene	7	1	ug/L	10.0		70.4	22.2-133	3.90	3.42	QR-04
Dibenz[a,h]anthracene	7	1	ug/L	10.0		70.9	20.3-133	3.59	4.77	
Fluoranthene	7	1	ug/L	10.0		73.7	27.2-128	4.12	6.19	
Fluorene	7	1	ug/L	10.0		74.8	22.9-124	3.95	4.31	
Indeno[1,2,3-cd]pyrene	7	1	ug/L	10.0		72.9	21.8-132	2.22	4.11	
Naphthalene	8	1	ug/L	10.0		76.0	18.1-117	3.62	3.46	QR-04
<i>Surrogate: Nitrobenzene-d5</i>	<i>32.1</i>		ug/L	<i>50.0</i>		<i>64.1</i>	<i>20.3-96.6</i>			
Phenanthrene	7	1	ug/L	10.0		71.8	25.6-128	4.76	5.04	
Pyrene	7	1	ug/L	10.0		71.2	19.1-137	0.560	7.75	
<i>Surrogate: Terphenyl-d14</i>	<i>38.3</i>		ug/L	<i>50.0</i>		<i>76.6</i>	<i>14.7-112</i>			

Green Analytical Laboratories

*Brenna Kampf*

Brenna Kampf, Project Manager

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

Project: Rule 411 & Rule 615  
Project Name / Number: March/April Rule 411 TEP  
Project Manager: Bruce Smith

Reported:  
06/22/22 17:01

**Notes and Definitions**

- U Analyte included in the analysis, but not detected
- QR-04 The RPD for the BS/BSD was outside of historical limits.
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- H1 Sample was received several days after collected and subsequently analyzed past hold time.
- BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
- 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

Green Analytical Laboratories

Brenna Kampf, Project Manager

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**GAL Analytical Laboratories**

(970) 247-4220  
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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) 247-0170 <b>Contact Person:</b> Bruce Smith <b>Email Report to:</b> bsmith@westernwaterandland.com <b>Project Name (optional):</b> March/April Rule 411 TEP		<b>P.O. #:</b> <b>Company:</b> TEP Rocky Mtn, LLC <b>Attn:</b> Tammy Gose <b>Address:</b> 1058 CR215 <b>City:</b> Parachute <b>State:</b> CO <b>Zip:</b> 81635 <b>Phone #:</b> 970-712-6049 <b>Email:</b> Tammy.gose@terradco.com		<b>Bill to (if different):</b>					
<b>Sampler Name (Print):</b> Plas Jones		<b>Collected</b>							
<b>For Lab Use</b> 2206-108	<b>Sample Name or Location</b> -01 Tompkins M/W-1 -02 Revell Spr -03 Trip Blank Tompkins Gully -04 Tompkins Gully	<b>Date</b> 6/8/22 6/8/22 --- 6/8/22	<b>Time</b> 13:00 10:15 --- 11:00	<b>Matrix (check one)</b> <input checked="" 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 type="checkbox"/> OTHER :					
				<b># of containers</b> No preservation (general) HNO <sub>3</sub> HCl H <sub>2</sub> SO <sub>4</sub> Other: Other:					
				<b>ANALYSIS REQUEST</b> Dissolved Metals (lab filter) Nutrients (total Phosphorous) TPH (DRO & GRO included) BTEX RSK 175 PAH General (Anions, Alk, TDS, SpC, pH, nitrates, nitrite) BART (total nitrate/nitrite)					
				<b>Received by:</b> FSD EX <b>Date:</b> 6/8/22 <b>Time:</b> 6:30		<b>Received by:</b> [Signature] <b>Date:</b> 6/8/22 <b>Time:</b> 11:00		<b>Received by:</b> [Signature] <b>Date:</b> 6/8/22 <b>Time:</b> 11:00	
				<b>Relinquished by:</b> [Signature] <b>Date:</b> 6/8/22 <b>Time:</b> 6:30		<b>Relinquished by:</b> FSD EX <b>Date:</b> 6/9/22 <b>Time:</b> 11:00		<b>Relinquished by:</b> [Signature] <b>Date:</b> 6/9/22 <b>Time:</b> 11:00	

PLEASE NOTE: GAL's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by GAL within 30 days after completion. In no event shall GAL be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by GAL, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

ADDITIONAL REMARKS: Report to State? (Circle)  Yes  No

Hexachrome receive out of hold Yes  No

Temperature at receipt: 3.4°C  
 CHECKED BY: [Signature]  
 On Ice:  No Ice:

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

Laboratory Sample ID: 2206-108-01

Start Date: 06/09/22

Sample Name: Tompkins MW-1

**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)

	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19
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	FO	FO	FO	FO/BR	FO/BR	FO/BR	FO/BR	FO/BR/BC

**SLYM**  
Green  
(Slime Forming Bacteria)

	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19
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)

	6/10	6/11	6/12	6/13	6/14	6/15	6/16	6/17	6/18	6/19
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	A	A	A	A	A	A	A

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

+