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28 July 2023

Bruce Smith  
Western Water & Land, Inc.  
743 Horizon Ct, Suite 330  
Grand Junction, CO 81506  
RE: Tompkins Pad Rule 609

Enclosed are the results of analyses for samples received by the laboratory on 07/14/23 10:15. 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 'Jeremy D. Allen'.

Jeremy D Allen  
Laboratory Director

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: T104704514-23-17

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: T104704398-23-16



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

Project: Rule 615  
Project Name / Number: Tompkins Pad Rule 609  
Project Manager: Bruce Smith

Reported:  
07/28/23 15:56

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
Dunn Well	2307129-01	Water	07/12/23 10:25	07/14/23 10:15	
Tompkins Savage	2307129-02	Water	07/12/23 12:30	07/14/23 10:15	
Tompkins MW-1	2307129-03	Water	07/12/23 14:00	07/14/23 10:15	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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**Dunn Well**

**2307129-01 (Ground Water)**  
**Sampled Date: 07/12/23 10:25**

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

Alkalinity, Total as CaCO3*	338	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<6.06	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B	U	KRW
Alkalinity, Carbonate as CaCO3*	<6.06	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B	U	KRW
Alkalinity, Bicarbonate as CaCO3*	338	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B		KRW
Bromide	<0.0274	0.100	0.0274	mg/L	1	07/24/23 14:38	EPA300.0	U	AWG
Cation/Anion Balance	-3.37	-100	-100	%	1	07/27/23 08:19	Calculation		JDA
Chloride*	5.41	1.00	0.0555	mg/L	1	07/24/23 14:38	EPA300.0		AWG
Conductivity*	626	1.00		umho/cm@25 C	1	07/14/23 13:14	2510 B		KRW
Fluoride*	0.193	0.100	0.00971	mg/L	1	07/24/23 14:38	EPA300.0		AWG
Nitrate as N*	0.572	0.020	0.008	mg/L	1	07/14/23 13:46	EPA300.0	H1	AWG
Nitrate+Nitrite as N by IC	0.572	0.0400	0.0119	mg/L	1	07/14/23 13:46	EPA300.0		AWG
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	07/14/23 13:46	EPA300.0	H1, U	AWG
pH*	7.70			pH Units	1	07/14/23 13:14	EPA150.1	H4	KRW
pH Temperature, degrees C	21.7			pH Units	1	07/14/23 13:14	EPA150.1	H4	KRW
Phosphorus, Total	<0.0245	0.0500	0.0245	mg P/L	1	07/26/23 09:56	EPA365.1	U	AWG
Sulfate*	17.8	1.00	0.124	mg/L	1	07/24/23 14:38	EPA300.0		AWG
Total Dissolved Solids*	405	10.0		mg/L	1	07/17/23 17:29	EPA160.1		CAI

**Dissolved Metals by ICP**

Boron	0.092	0.300	0.061	mg/L	1	07/20/23 18:48	EPA200.7	J	AES
Calcium*	39.0	0.100	0.062	mg/L	1	07/25/23 13:18	EPA200.7		AES
Iron*	<0.015	0.050	0.015	mg/L	1	07/25/23 13:18	EPA200.7	U	AES
Magnesium*	37.3	0.100	0.035	mg/L	1	07/20/23 18:48	EPA200.7		AES
Potassium*	1.96	1.00	0.104	mg/L	1	07/20/23 18:48	EPA200.7		AES
Sodium*	39.2	1.00	0.409	mg/L	1	07/20/23 18:48	EPA200.7		AES
Strontium*	0.808	0.100	0.017	mg/L	1	07/20/23 18:48	EPA200.7		AES

**Dissolved Metals by ICPMS**

Barium*	0.130	0.0005	0.0002	mg/L	1	07/21/23 15:11	EPA200.8		AES
Manganese*	<0.0003	0.0010	0.0003	mg/L	2	07/21/23 16:08	EPA200.8	U	AES
Selenium*	0.0012	0.0010	0.0004	mg/L	1	07/21/23 15:11	EPA200.8		AES

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Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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**Dunn Well**

**2307129-01 (Ground Water)**

**Sampled Date: 07/12/23 10:25**

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

<b>Iron-Related Bacteria</b>	High Aggressivity - 9000			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN
<b>Slime-Forming Bacteria</b>	Medium Aggressivity - 13000			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN
<b>Sulfate-Reducing Bacteria</b>	Low Aggressivity - < 5			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN

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

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<1.00	1.00	0.295	mg/L	0.1	07/22/23 03:05	8015B		MS
<b>DRO &gt;C10-C28*</b>	<1.00	1.00	0.670	mg/L	0.1	07/22/23 03:05	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<1.00	1.00	0.670	mg/L	0.1	07/22/23 03:05	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			90.3 %	48.8-131		07/22/23 03:05	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			98.0 %	60.1-141		07/22/23 03:05	8015B		MS

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene*</b>	<0.0005	0.0005	0.00004	mg/L	1	07/19/23 16:28	8260B		MS
<b>Toluene*</b>	<0.0005	0.0005	0.00002	mg/L	1	07/19/23 16:28	8260B		MS
<b>Ethylbenzene*</b>	<0.0005	0.0005	0.00003	mg/L	1	07/19/23 16:28	8260B		MS
<b>Total Xylenes*</b>	<0.001	0.001	0.0002	mg/L	1	07/19/23 16:28	8260B		MS
<b>Total BTEX</b>	<0.003	0.003	0.0003	mg/L	1	07/19/23 16:28	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			107 %	82.4-141		07/19/23 16:28	8260B		MS
<i>Surrogate: Toluene-d8</i>			102 %	87.1-110		07/19/23 16:28	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			95.2 %	76.4-114		07/19/23 16:28	8260B		MS

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

**RSK-175**

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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**Dunn Well**

**2307129-01 (Ground Water)**

**Sampled Date: 07/12/23 10:25**

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**

<b>Methane</b>	<0.00124	0.00328	0.00124	mg/l	1	07/18/23 12:07	RSK-175		DD
<b>Ethane</b>	<0.000325	0.00615	0.000325	mg/l	1	07/18/23 12:07	RSK-175		DD
<b>Propane</b>	<0.000470	0.00902	0.000470	mg/l	1	07/18/23 12:07	RSK-175		DD

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

Project: Rule 615  
Project Name / Number: Tompkins Pad Rule 609  
Project Manager: Bruce Smith

Reported:  
07/28/23 15:56

**Tompkins Savage**

**2307129-02 (Ground Water)**

**Sampled Date: 07/12/23 12:30**

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

Alkalinity, Total as CaCO3*	269	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<6.06	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B	U	KRW
Alkalinity, Carbonate as CaCO3*	<6.06	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B	U	KRW
Alkalinity, Bicarbonate as CaCO3*	269	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B		KRW
Bromide	<0.0274	0.100	0.0274	mg/L	1	07/24/23 15:40	EPA300.0	U	AWG
Cation/Anion Balance	-2.98	-100	-100	%	1	07/27/23 08:19	Calculation		JDA
Chloride*	3.53	1.00	0.0555	mg/L	1	07/24/23 15:40	EPA300.0		AWG
Conductivity*	520	1.00		umho/cm@25 C	1	07/14/23 13:14	2510 B		KRW
Fluoride*	0.200	0.100	0.00971	mg/L	1	07/24/23 15:40	EPA300.0		AWG
Nitrate as N*	0.957	0.040	0.015	mg/L	2	07/14/23 16:37	EPA300.0	H1	AWG
Nitrate+Nitrite as N by IC	0.957	0.0800	0.0238	mg/L	2	07/14/23 16:37	EPA300.0		AWG
Nitrite as N*	<0.008	0.040	0.008	mg/L	2	07/14/23 16:37	EPA300.0	H1, M5, U	AWG
pH*	8.03			pH Units	1	07/14/23 13:14	EPA150.1	H5	KRW
pH Temperature, degrees C	21.8			pH Units	1	07/14/23 13:14	EPA150.1	H5	KRW
Phosphorus, Total	<0.0245	0.0500	0.0245	mg P/L	1	07/26/23 09:58	EPA365.1	U	AWG
Sulfate*	21.0	1.00	0.124	mg/L	1	07/24/23 15:40	EPA300.0		AWG
Total Dissolved Solids*	320	10.0		mg/L	1	07/17/23 17:31	EPA160.1		CAI

**Dissolved Metals by ICP**

Boron	0.076	0.300	0.061	mg/L	1	07/20/23 18:56	EPA200.7	J	AES
Calcium*	26.0	0.100	0.062	mg/L	1	07/25/23 13:29	EPA200.7		AES
Iron*	<0.015	0.050	0.015	mg/L	1	07/25/23 13:30	EPA200.7	U	AES
Magnesium*	28.7	0.100	0.035	mg/L	1	07/20/23 18:56	EPA200.7		AES
Potassium*	1.88	1.00	0.104	mg/L	1	07/20/23 18:55	EPA200.7		AES
Sodium*	42.2	1.00	0.409	mg/L	1	07/20/23 18:55	EPA200.7		AES
Strontium*	0.728	0.100	0.017	mg/L	1	07/20/23 18:55	EPA200.7		AES

**Dissolved Metals by ICPMS**

Barium*	0.185	0.0005	0.0002	mg/L	1	07/21/23 15:16	EPA200.8		AES
Manganese*	<0.0002	0.0005	0.0002	mg/L	1	07/21/23 15:16	EPA200.8	U	AES
Selenium*	0.0012	0.0010	0.0004	mg/L	1	07/21/23 15:16	EPA200.8		AES

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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**Tompkins Savage**

**2307129-02 (Ground Water)**

**Sampled Date: 07/12/23 12:30**

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

<b>Iron-Related Bacteria</b>	Medium Aggressivity - 500			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN
<b>Slime-Forming Bacteria</b>	Medium Aggressivity - 13000			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN
<b>Sulfate-Reducing Bacteria</b>	High Aggressivity - 6000			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN

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

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<1.00	1.00	0.295	mg/L	0.1	07/22/23 03:29	8015B		MS
<b>DRO &gt;C10-C28*</b>	<1.00	1.00	0.670	mg/L	0.1	07/22/23 03:29	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<1.00	1.00	0.670	mg/L	0.1	07/22/23 03:29	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			91.6 %	48.8-131		07/22/23 03:29	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			96.1 %	60.1-141		07/22/23 03:29	8015B		MS

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene*</b>	<0.0005	0.0005	0.00004	mg/L	1	07/19/23 16:51	8260B		MS
<b>Toluene*</b>	<0.0005	0.0005	0.00002	mg/L	1	07/19/23 16:51	8260B		MS
<b>Ethylbenzene*</b>	<0.0005	0.0005	0.00003	mg/L	1	07/19/23 16:51	8260B		MS
<b>Total Xylenes*</b>	<0.001	0.001	0.0002	mg/L	1	07/19/23 16:51	8260B		MS
<b>Total BTEX</b>	<0.003	0.003	0.0003	mg/L	1	07/19/23 16:51	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			107 %	82.4-141		07/19/23 16:51	8260B		MS
<i>Surrogate: Toluene-d8</i>			100 %	87.1-110		07/19/23 16:51	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			92.9 %	76.4-114		07/19/23 16:51	8260B		MS

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

**RSK-175**

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	<b>Reported:</b> 07/28/23 15:56
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**Tompkins Savage**

**2307129-02 (Ground Water)**

**Sampled Date: 07/12/23 12:30**

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**

<b>Methane</b>	<0.00124	0.00328	0.00124	mg/l	1	07/18/23 13:24	RSK-175		DD
<b>Ethane</b>	<0.000325	0.00615	0.000325	mg/l	1	07/18/23 13:24	RSK-175		DD
<b>Propane</b>	<0.000470	0.00902	0.000470	mg/l	1	07/18/23 13:24	RSK-175		DD

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**Tompkins MW-1**

**2307129-03 (Ground Water)**

**Sampled Date: 07/12/23 14:00**

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

Alkalinity, Total as CaCO3*	250	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B		KRW
Alkalinity, Hydroxide as CaCO3*	<6.06	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B	U	KRW
Alkalinity, Carbonate as CaCO3*	<6.06	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B	U	KRW
Alkalinity, Bicarbonate as CaCO3*	250	10.0	6.06	mg/L	1	07/19/23 13:08	2320 B		KRW
Bromide	<0.0274	0.100	0.0274	mg/L	1	07/24/23 16:01	EPA300.0	U	AWG
Cation/Anion Balance	-1.94	-100	-100	%	1	07/27/23 08:19	Calculation		JDA
Chloride*	4.32	1.00	0.0555	mg/L	1	07/24/23 16:01	EPA300.0		AWG
Conductivity*	509	1.00		umho/cm@25 C	1	07/14/23 13:14	2510 B		KRW
Fluoride*	0.216	0.100	0.00971	mg/L	1	07/24/23 16:01	EPA300.0		AWG
Nitrate as N*	1.39	0.020	0.008	mg/L	1	07/14/23 15:02	EPA300.0	H5	AWG
Nitrate+Nitrite as N by IC	1.39	0.0400	0.0119	mg/L	1	07/14/23 15:02	EPA300.0		AWG
Nitrite as N*	<0.004	0.020	0.004	mg/L	1	07/14/23 15:02	EPA300.0	H5, U	AWG
pH*	7.80			pH Units	1	07/14/23 13:14	EPA150.1		KRW
pH Temperature, degrees C	21.4			pH Units	1	07/14/23 13:14	EPA150.1		KRW
Phosphorus, Total	0.0379	0.0500	0.0245	mg P/L	1	07/26/23 09:59	EPA365.1	J	AWG
Sulfate*	25.1	1.00	0.124	mg/L	1	07/24/23 16:01	EPA300.0		AWG
Total Dissolved Solids*	340	10.0		mg/L	1	07/17/23 17:33	EPA160.1		CAI

**Dissolved Metals by ICP**

Boron	<0.061	0.300	0.061	mg/L	1	07/20/23 18:58	EPA200.7	U	AES
Calcium*	30.6	0.100	0.062	mg/L	1	07/25/23 13:32	EPA200.7		AES
Iron*	<0.015	0.050	0.015	mg/L	1	07/25/23 13:32	EPA200.7	U	AES
Magnesium*	26.3	0.100	0.035	mg/L	1	07/20/23 18:58	EPA200.7		AES
Potassium*	2.30	1.00	0.104	mg/L	1	07/20/23 18:58	EPA200.7		AES
Sodium*	38.2	1.00	0.409	mg/L	1	07/20/23 18:58	EPA200.7		AES
Strontium*	0.617	0.100	0.017	mg/L	1	07/20/23 18:58	EPA200.7		AES

**Dissolved Metals by ICPMS**

Barium*	0.172	0.0005	0.0002	mg/L	1	07/21/23 15:17	EPA200.8		AES
Manganese*	<0.0003	0.0010	0.0003	mg/L	2	07/21/23 16:10	EPA200.8	U	AES
Selenium*	0.0031	0.0010	0.0004	mg/L	1	07/21/23 15:17	EPA200.8		AES

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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**Tompkins MW-1**

**2307129-03 (Ground Water)**  
**Sampled Date: 07/12/23 14:00**

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

<b>Iron-Related Bacteria</b>	High Aggressivity - 9000			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN
<b>Slime-Forming Bacteria</b>	High Aggressivity - 440000			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN
<b>Sulfate-Reducing Bacteria</b>	Low Aggressivity - < 5			CFU/mL	1	07/14/23 16:30	Lab Procedure		MRN

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

**Petroleum Hydrocarbons by GC FID**

<b>GRO C6-C10*</b>	<1.00	1.00	0.295	mg/L	0.1	07/22/23 03:53	8015B		MS
<b>DRO &gt;C10-C28*</b>	<1.00	1.00	0.670	mg/L	0.1	07/22/23 03:53	8015B		MS
<b>EXT DRO &gt;C28-C36</b>	<1.00	1.00	0.670	mg/L	0.1	07/22/23 03:53	8015B		MS
<i>Surrogate: 1-Chlorooctane</i>			90.6 %	48.8-131		07/22/23 03:53	8015B		MS
<i>Surrogate: 1-Chlorooctadecane</i>			96.4 %	60.1-141		07/22/23 03:53	8015B		MS

**Volatile Organic Compounds by EPA Method 8260B**

<b>Benzene*</b>	<0.0005	0.0005	0.00004	mg/L	1	07/19/23 17:15	8260B		MS
<b>Toluene*</b>	<0.0005	0.0005	0.00002	mg/L	1	07/19/23 17:15	8260B		MS
<b>Ethylbenzene*</b>	<0.0005	0.0005	0.00003	mg/L	1	07/19/23 17:15	8260B		MS
<b>Total Xylenes*</b>	<0.001	0.001	0.0002	mg/L	1	07/19/23 17:15	8260B		MS
<b>Total BTEX</b>	<0.003	0.003	0.0003	mg/L	1	07/19/23 17:15	8260B		MS
<i>Surrogate: Dibromofluoromethane</i>			109 %	82.4-141		07/19/23 17:15	8260B		MS
<i>Surrogate: Toluene-d8</i>			100 %	87.1-110		07/19/23 17:15	8260B		MS
<i>Surrogate: 4-Bromofluorobenzene</i>			91.2 %	76.4-114		07/19/23 17:15	8260B		MS

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

**RSK-175**

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**Tompkins MW-1**

**2307129-03 (Ground Water)**

**Sampled Date: 07/12/23 14:00**

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**

Methane	<0.00124	0.00328	0.00124	mg/l	1	07/18/23 13:45	RSK-175		DD
Ethane	<0.000325	0.00615	0.000325	mg/l	1	07/18/23 13:45	RSK-175		DD
Propane	<0.000470	0.00902	0.000470	mg/l	1	07/18/23 13:45	RSK-175		DD

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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 B232018 - IC- Ion Chromatograph**

<b>Blank (B232018-BLK1)</b>										
Prepared & Analyzed: 07/14/23										
Nitrate as N	ND	0.020	mg/L							U
Nitrite as N	ND	0.020	mg/L							U

<b>LCS (B232018-BS1)</b>										
Prepared & Analyzed: 07/14/23										
Nitrate as N	1.05	0.020	mg/L	1.00		105	90-110			
Nitrite as N	1.01	0.020	mg/L	1.00		101	90-110			

<b>LCS Dup (B232018-BSD1)</b>										
Prepared & Analyzed: 07/14/23										
Nitrate as N	1.05	0.020	mg/L	1.00		105	90-110	0.200	20	
Nitrite as N	1.00	0.020	mg/L	1.00		100	90-110	0.744	20	

<b>Matrix Spike (B232018-MS1)</b>										
Source: 2307129-02 Prepared & Analyzed: 07/14/23										
Nitrate as N	2.05	0.040	mg/L	1.00	0.957	109	85-115			
Nitrite as N	0.644	0.040	mg/L	1.00	ND	64.4	85-115			M2

<b>Matrix Spike Dup (B232018-MSD1)</b>										
Source: 2307129-02 Prepared & Analyzed: 07/14/23										
Nitrate as N	2.05	0.040	mg/L	1.00	0.957	110	85-115	0.371	20	
Nitrite as N	0.700	0.040	mg/L	1.00	ND	70.0	85-115	8.30	20	M2

**Batch B232034 - General Prep - Wet Chem**

<b>Duplicate (B232034-DUP1)</b>										
Source: 2307084-01 Prepared & Analyzed: 07/14/23										
pH	8.42		pH Units		8.35			0.835	20	
pH Temperature, degrees C	20.7		pH Units		20.9			0.962	200	

<b>Reference (B232034-SRM1)</b>										
Prepared & Analyzed: 07/14/23										
pH	7.10		pH Units	7.00		101	98.57-101.42			

**Batch B232036 - General Prep - Wet Chem**

<b>Duplicate (B232036-DUP1)</b>										
Source: 2307084-01 Prepared & Analyzed: 07/14/23										
Conductivity	1290	1.00	umho/cm@25C		1290			0.233	20	

<b>Reference (B232036-SRM1)</b>										
Prepared & Analyzed: 07/14/23										
Conductivity	993	1.00	umho/cm@25C	1000		99.3	90-110			

**Batch B232038 - General Prep - Wet Chem**

<b>Blank (B232038-BLK1)</b>										
Prepared & Analyzed: 07/17/23										

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: Tompkins Pad Rule 609  
Project Manager: Bruce Smith

Reported:  
07/28/23 15:56

**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 B232038 - General Prep - Wet Chem (Continued)**

**Blank (B232038-BLK1) (Continued)**

Prepared & Analyzed: 07/17/23

Total Dissolved Solids	ND	10.0	mg/L							U
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**Duplicate (B232038-DUP1)**

Source: 2307095-01 Prepared & Analyzed: 07/17/23

Total Dissolved Solids	405	10.0	mg/L		405			0.0236	20	
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**Reference (B232038-SRM1)**

Prepared & Analyzed: 07/17/23

Total Dissolved Solids	350	10.0	mg/L	400		87.5	85-115			
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**Batch B232070 - General Prep - Wet Chem**

**Blank (B232070-BLK1)**

Prepared & Analyzed: 07/19/23

Alkalinity, Bicarbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Carbonate as CaCO3	ND	10.0	mg/L							U
Alkalinity, Hydroxide as CaCO3	ND	10.0	mg/L							U
Alkalinity, Total as CaCO3	ND	10.0	mg/L							U

**LCS (B232070-BS1)**

Prepared & Analyzed: 07/19/23

Alkalinity, Total as CaCO3	108	10.0	mg/L	100		108	85-115			
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**LCS Dup (B232070-BSD1)**

Prepared & Analyzed: 07/19/23

Alkalinity, Total as CaCO3	107	10.0	mg/L	100		107	85-115	0.930	20	
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**Matrix Spike (B232070-MS1)**

Source: 2307123-03 Prepared & Analyzed: 07/19/23

Alkalinity, Total as CaCO3	138	10.0	mg/L	100	44.0	94.0	80-120			
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**Matrix Spike Dup (B232070-MSD1)**

Source: 2307123-03 Prepared & Analyzed: 07/19/23

Alkalinity, Total as CaCO3	147	10.0	mg/L	100	44.0	103	80-120	6.32	20	
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**Reference (B232070-SRM1)**

Prepared & Analyzed: 07/19/23

Alkalinity, Total as CaCO3	70.0	10.0	mg/L	72.7		96.3	85-115			
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**Batch B232107 - IC- Ion Chromatograph**

**Blank (B232107-BLK1)**

Prepared & Analyzed: 07/24/23

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

**LCS (B232107-BS1)**

Prepared & Analyzed: 07/24/23

Bromide	2.34	0.100	mg/L	2.50		93.7	90-110			
Chloride	24.7	1.00	mg/L	25.0		98.7	90-110			
Fluoride	2.45	0.100	mg/L	2.50		98.0	90-110			

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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 B232107 - IC- Ion Chromatograph (Continued)**

**LCS (B232107-BS1) (Continued)**

Prepared & Analyzed: 07/24/23

Sulfate	23.9	1.00	mg/L	25.0		95.5	90-110			
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**LCS Dup (B232107-BSD1)**

Prepared & Analyzed: 07/24/23

Bromide	2.34	0.100	mg/L	2.50		93.8	90-110	0.0854	20	
Chloride	24.7	1.00	mg/L	25.0		98.8	90-110	0.00810	20	
Fluoride	2.46	0.100	mg/L	2.50		98.3	90-110	0.285	20	
Sulfate	23.9	1.00	mg/L	25.0		95.8	90-110	0.322	20	

**Matrix Spike (B232107-MS1)**

Source: 2307129-01 Prepared & Analyzed: 07/24/23

Bromide	2.20	0.100	mg/L	2.50	ND	87.8	85-115			
Chloride	28.5	1.00	mg/L	25.0	5.41	92.4	85-115			
Fluoride	2.39	0.100	mg/L	2.50	0.193	87.9	85-115			
Sulfate	41.0	1.00	mg/L	25.0	17.8	92.7	85-115			

**Matrix Spike (B232107-MS2)**

Source: 2307147-01 Prepared & Analyzed: 07/24/23

Bromide	2.34	0.100	mg/L	2.50	0.140	88.0	85-115			
Chloride	45.7	1.00	mg/L	25.0	22.2	93.7	85-115			
Fluoride	5.10	0.500	mg/L	2.50	2.84	90.2	85-115			
Sulfate	23.2	1.00	mg/L	25.0	1.01	88.6	85-115			

**Matrix Spike Dup (B232107-MSD1)**

Source: 2307129-01 Prepared & Analyzed: 07/24/23

Bromide	2.29	0.100	mg/L	2.50	ND	91.5	85-115	4.06	20	
Chloride	29.4	1.00	mg/L	25.0	5.41	96.1	85-115	3.18	20	
Fluoride	2.48	0.100	mg/L	2.50	0.193	91.4	85-115	3.57	20	
Sulfate	41.9	1.00	mg/L	25.0	17.8	96.4	85-115	2.26	20	

**Matrix Spike Dup (B232107-MSD2)**

Source: 2307147-01 Prepared & Analyzed: 07/24/23

Bromide	2.43	0.100	mg/L	2.50	0.140	91.6	85-115	3.77	20	
Chloride	46.6	1.00	mg/L	25.0	22.2	97.3	85-115	1.95	20	
Fluoride	4.97	0.500	mg/L	2.50	2.84	85.2	85-115	2.48	20	
Sulfate	24.0	1.00	mg/L	25.0	1.01	92.1	85-115	3.73	20	

**Batch B232124 - Lachat**

**Blank (B232124-BLK1)**

Prepared: 07/25/23 Analyzed: 07/26/23

Phosphorus, Total	ND	0.0500	mg P/L							U
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**LCS (B232124-BS1)**

Prepared: 07/25/23 Analyzed: 07/26/23

Phosphorus, Total	2.57	0.0500	mg P/L	2.50		103	90-110			
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**LCS Dup (B232124-BSD1)**

Prepared: 07/25/23 Analyzed: 07/26/23

Phosphorus, Total	2.59	0.0500	mg P/L	2.50		104	90-110	0.919	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
<b>Batch B232124 - Lachat (Continued)</b>										
<b>Matrix Spike (B232124-MS1)</b> Source: 2307129-01 Prepared: 07/25/23 Analyzed: 07/26/23										
Phosphorus, Total	2.48	0.0500	mg P/L	2.50	ND	99.3	90-110			
<b>Matrix Spike (B232124-MS2)</b> Source: 2307170-01 Prepared: 07/25/23 Analyzed: 07/26/23										
Phosphorus, Total	2.53	0.0500	mg P/L	2.50	0.0291	100	90-110			
<b>Matrix Spike Dup (B232124-MSD1)</b> Source: 2307129-01 Prepared: 07/25/23 Analyzed: 07/26/23										
Phosphorus, Total	2.49	0.0500	mg P/L	2.50	ND	99.4	90-110	0.125	20	
<b>Matrix Spike Dup (B232124-MSD2)</b> Source: 2307170-01 Prepared: 07/25/23 Analyzed: 07/26/23										
Phosphorus, Total	2.51	0.0500	mg P/L	2.50	0.0291	99.4	90-110	0.761	20	

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743 Horizon Ct, Suite 330  
Grand Junction CO, 81506

Project: Rule 615  
Project Name / Number: Tompkins Pad Rule 609  
Project Manager: Bruce Smith

Reported:  
07/28/23 15:56

**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 B232077 - Dissolved ICP**

**Blank (B232077-BLK1)**

Prepared: 07/19/23 Analyzed: 07/20/23

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 (B232077-BS1)**

Prepared: 07/19/23 Analyzed: 07/20/23

Boron	3.85	0.300	mg/L	4.00		96.2	85-115			
Calcium	3.73	0.100	mg/L	4.00		93.3	85-115			
Iron	3.94	0.050	mg/L	4.00		98.4	85-115			
Magnesium	19.3	0.100	mg/L	20.0		96.7	85-115			
Potassium	7.81	1.00	mg/L	8.00		97.6	85-115			
Sodium	3.23	1.00	mg/L	3.24		99.7	85-115			
Strontium	3.85	0.100	mg/L	4.00		96.3	85-115			

**LCS Dup (B232077-BS1)**

Prepared: 07/19/23 Analyzed: 07/20/23

Boron	3.87	0.300	mg/L	4.00		96.8	85-115	0.622	20	
Calcium	3.69	0.100	mg/L	4.00		92.3	85-115	1.01	20	
Iron	3.84	0.050	mg/L	4.00		95.9	85-115	2.58	20	
Magnesium	19.2	0.100	mg/L	20.0		96.2	85-115	0.510	20	
Potassium	7.71	1.00	mg/L	8.00		96.4	85-115	1.23	20	
Sodium	3.21	1.00	mg/L	3.24		99.0	85-115	0.728	20	
Strontium	3.80	0.100	mg/L	4.00		95.0	85-115	1.32	20	

**Matrix Spike (B232077-MS1)**

Source: 2307126-01

Prepared: 07/19/23 Analyzed: 07/20/23

Boron	3.80	0.300	mg/L	4.00	ND	94.9	70-130			
Calcium	53.7	0.100	mg/L	4.00	48.3	137	70-130			M3
Iron	3.86	0.050	mg/L	4.00	0.023	95.8	70-130			
Magnesium	31.5	0.100	mg/L	20.0	15.3	81.0	70-130			
Potassium	10.3	1.00	mg/L	8.00	3.20	88.5	70-130			
Sodium	34.5	1.00	mg/L	3.24	33.5	30.8	70-130			M3
Strontium	4.05	0.100	mg/L	4.00	0.500	88.8	70-130			

**Matrix Spike (B232077-MS2)**

Source: 2307129-01

Prepared: 07/19/23 Analyzed: 07/20/23

Boron	3.81	0.300	mg/L	4.00	0.092	92.8	70-130			
Calcium	41.0	0.100	mg/L	4.00	39.0	51.4	70-130			M3
Iron	3.91	0.050	mg/L	4.00	ND	97.7	70-130			
Magnesium	53.5	0.100	mg/L	20.0	37.3	80.9	70-130			
Potassium	9.05	1.00	mg/L	8.00	1.96	88.6	70-130			

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**Dissolved Metals by ICP - Quality Control  
(Continued)**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B232077 - Dissolved ICP (Continued)**

**Matrix Spike (B232077-MS2) (Continued)**

Source: 2307129-01 Prepared: 07/19/23 Analyzed: 07/20/23

Sodium	39.5	1.00	mg/L	3.24	39.2	9.26	70-130			M3
Strontium	4.34	0.100	mg/L	4.00	0.808	88.2	70-130			

**Matrix Spike Dup (B232077-MSD1)**

Source: 2307126-01 Prepared: 07/19/23 Analyzed: 07/20/23

Boron	3.71	1.50	mg/L	4.00	ND	92.8	70-130	2.30	20	
Calcium	55.0	0.500	mg/L	4.00	48.3	168	70-130	2.31	20	M3
Iron	3.91	0.250	mg/L	4.00	ND	97.8	70-130	1.45	20	
Magnesium	31.9	0.500	mg/L	20.0	15.3	83.3	70-130	1.42	20	
Potassium	10.3	5.00	mg/L	8.00	3.20	88.5	70-130	0.0128	20	
Sodium	35.3	5.00	mg/L	3.24	33.5	54.3	70-130	2.18	20	M3
Strontium	4.01	0.500	mg/L	4.00	0.500	87.8	70-130	0.953	20	

**Matrix Spike Dup (B232077-MSD2)**

Source: 2307129-01 Prepared: 07/19/23 Analyzed: 07/20/23

Boron	3.74	1.50	mg/L	4.00	ND	93.5	70-130	1.74	20	
Calcium	40.8	0.500	mg/L	4.00	39.0	45.4	70-130	0.591	20	M3
Iron	3.84	0.250	mg/L	4.00	ND	96.1	70-130	1.71	20	
Magnesium	53.1	0.500	mg/L	20.0	37.3	78.8	70-130	0.777	20	
Potassium	9.03	5.00	mg/L	8.00	1.96	88.3	70-130	0.285	20	
Sodium	39.6	5.00	mg/L	3.24	39.2	11.7	70-130	0.201	20	M3
Strontium	4.22	0.500	mg/L	4.00	0.808	85.4	70-130	2.64	20	

Green Analytical Laboratories

Jeremy D Allen, Laboratory Director

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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**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 B232079 - Dissolved ICPMS**

**Blank (B232079-BLK1)**

Prepared: 07/19/23 Analyzed: 07/21/23

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

**LCS (B232079-BS1)**

Prepared: 07/19/23 Analyzed: 07/21/23

Barium	0.0518	0.0005	mg/L	0.0500		104	85-115			
Manganese	0.0532	0.0005	mg/L	0.0500		106	85-115			
Selenium	0.265	0.0010	mg/L	0.250		106	85-115			

**LCS Dup (B232079-BSD1)**

Prepared: 07/19/23 Analyzed: 07/21/23

Barium	0.0518	0.0005	mg/L	0.0500		104	85-115	0.0727	20	
Manganese	0.0529	0.0005	mg/L	0.0500		106	85-115	0.497	20	
Selenium	0.255	0.0010	mg/L	0.250		102	85-115	3.77	20	

**Matrix Spike (B232079-MS1)**

Source: 2307125-01

Prepared: 07/19/23 Analyzed: 07/21/23

Barium	0.107	0.0005	mg/L	0.0500	0.0560	101	70-130			
Manganese	0.0840	0.0005	mg/L	0.0500	0.0336	101	70-130			
Selenium	0.292	0.0010	mg/L	0.250	0.0007	117	70-130			

**Matrix Spike Dup (B232079-MSD1)**

Source: 2307125-01

Prepared: 07/19/23 Analyzed: 07/21/23

Barium	0.107	0.0005	mg/L	0.0500	0.0560	101	70-130	0.232	20	
Manganese	0.0854	0.0005	mg/L	0.0500	0.0336	104	70-130	1.64	20	
Selenium	0.296	0.0010	mg/L	0.250	0.0007	118	70-130	1.38	20	

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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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 23G0192 - EPA 3810m Headspace**

**Blank (23G0192-BLK1)**

Prepared: 07/14/23 Analyzed: 07/18/23

Ethane	ND	0.00615	mg/l							
Methane	ND	0.00328	mg/l							
Propane	ND	0.00902	mg/l							

**LCS (23G0192-BS1)**

Prepared: 07/14/23 Analyzed: 07/18/23

Ethane	1.17	0.00615	mg/l	1.23		95.3	75-125			
Ethene	1.09	0.00574	mg/l	1.15		94.4	75-125			
Methane	0.647	0.00328	mg/l	0.656		98.6	75-125			

**Duplicate (23G0192-DUP1)**

Source: T231953-01 Prepared: 07/14/23 Analyzed: 07/18/23

Ethane	ND	0.00615	mg/l		ND				20	
Methane	0.0463	0.00328	mg/l		0.0470			1.39	20	
Propane	ND	0.00902	mg/l		ND				20	

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Western Water & Land, Inc. 743 Horizon Ct, Suite 330 Grand Junction CO, 81506	Project: Rule 615 Project Name / Number: Tompkins Pad Rule 609 Project Manager: Bruce Smith	Reported: 07/28/23 15:56
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**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 3072032 - General Prep - Organics**

**Blank (3072032-BLK1)**

Prepared: 07/20/23 Analyzed: 07/22/23

Surrogate: 1-Chlorooctadecane	5.09		mg/L	5.00		102	60.1-141			
Surrogate: 1-Chlorooctane	4.37		mg/L	4.96		88.1	48.8-131			
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C36	ND	1.00	mg/L							
GRO C6-C10	ND	1.00	mg/L							

**LCS (3072032-BS1)**

Prepared: 07/20/23 Analyzed: 07/22/23

Surrogate: 1-Chlorooctadecane	5.16		mg/L	5.00		103	60.1-141			
Surrogate: 1-Chlorooctane	5.18		mg/L	4.96		105	48.8-131			
DRO >C10-C28	46.0	1.00	mg/L	50.0		92.0	68.8-126			
GRO C6-C10	45.1	1.00	mg/L	50.0		90.2	69.6-126			

**LCS Dup (3072032-BSD1)**

Prepared: 07/20/23 Analyzed: 07/22/23

Surrogate: 1-Chlorooctadecane	5.07		mg/L	5.00		101	60.1-141			
Surrogate: 1-Chlorooctane	5.34		mg/L	4.96		108	48.8-131			
DRO >C10-C28	45.1	1.00	mg/L	50.0		90.2	68.8-126	2.01	20.4	
GRO C6-C10	45.7	1.00	mg/L	50.0		91.3	69.6-126	1.20	16.8	

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

Project: Rule 615  
Project Name / Number: Tompkins Pad Rule 609  
Project Manager: Bruce Smith

Reported:  
07/28/23 15:56

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3071924 - Volatiles**

**Blank (3071924-BLK1)**

Prepared & Analyzed: 07/19/23

Surrogate: 4-Bromofluorobenzene	0.0237		mg/L	0.0250		94.9	76.4-114			
Benzene	ND	0.0005	mg/L							
Surrogate: Dibromofluoromethane	0.0267		mg/L	0.0250		107	82.4-141			
Ethylbenzene	ND	0.0005	mg/L							
Toluene	ND	0.0005	mg/L							
Surrogate: Toluene-d8	0.0252		mg/L	0.0250		101	87.1-110			
Total BTEX	ND	0.003	mg/L							
Total Xylenes	ND	0.001	mg/L							

**LCS (3071924-BS1)**

Prepared & Analyzed: 07/19/23

Surrogate: 4-Bromofluorobenzene	0.0244		mg/L	0.0250		97.5	76.4-114			
Benzene	0.021	0.0005	mg/L	0.0200		105	85.9-114			
Surrogate: Dibromofluoromethane	0.0257		mg/L	0.0250		103	82.4-141			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		106	81.8-127			
m+p - Xylene	0.043	0.001	mg/L	0.0400		107	72.4-134			
o-Xylene	0.021	0.0005	mg/L	0.0200		104	76.2-135			
Toluene	0.020	0.0005	mg/L	0.0200		98.8	78.8-121			
Surrogate: Toluene-d8	0.0244		mg/L	0.0250		97.6	87.1-110			
Total Xylenes	0.063	0.001	mg/L	0.0600		106	74.3-134			

**LCS Dup (3071924-BSD1)**

Prepared & Analyzed: 07/19/23

Surrogate: 4-Bromofluorobenzene	0.0246		mg/L	0.0250		98.6	76.4-114			
Benzene	0.020	0.0005	mg/L	0.0200		102	85.9-114	3.14	4.14	
Surrogate: Dibromofluoromethane	0.0254		mg/L	0.0250		102	82.4-141			
Ethylbenzene	0.021	0.0005	mg/L	0.0200		104	81.8-127	2.09	4.95	
m+p - Xylene	0.042	0.001	mg/L	0.0400		105	72.4-134	1.08	5.81	
o-Xylene	0.021	0.0005	mg/L	0.0200		103	76.2-135	0.921	6.32	
Toluene	0.020	0.0005	mg/L	0.0200		97.6	78.8-121	1.32	5.73	
Surrogate: Toluene-d8	0.0248		mg/L	0.0250		99.2	87.1-110			
Total Xylenes	0.063	0.001	mg/L	0.0600		105	74.3-134	1.03	5.84	

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

Project: Rule 615  
Project Name / Number: Tompkins Pad Rule 609  
Project Manager: Bruce Smith

Reported:  
07/28/23 15:56

Notes and Definitions

- U Analyte included in the analysis, but not detected
- M5 Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
- M3 Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is more than four times the spike level.
- M2 Matrix spike recovery was below laboratory acceptance criteria. Recovery possibly affected by a matrix interference in the sample. The method blank spike recovery was acceptable.
- J Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
- H5 Sample was analyzed within 2-hours of its 24 or 48 hour hold-time limit.
- H4 pH analysis performed more than 48 hours after sampling.
- H1 Sample was received several days after collected and subsequently analyzed past hold time.
- 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

Jeremy D Allen, Laboratory Director

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(970) 247-4220  
 Fax: (970) 247-4227  
 dzufelt@greenanalytical.com  
 75 Suttle St Durango, CO 81303

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
 FORM-006  
 COC - Revision 6.0

Company or Client: Western Water & Land, Inc.  
 Address: 743 Horizon Court Suite 330  
 City: Grand Junction State: CO Zip: 81506  
 Phone #: 970-242-0170  
 Contact Person: Bruce Smith  
 Email Report to: bsmith@westernwaterandland.com  
 Project Name (optional): Tompkins Pda Rule 609

Bill to (if different):  
 P.O. #:  
 Company: TEP Rocky Mountain LLC  
 Attn: Tammy Gose  
 Address: 1058 County Road 215  
 City: Parachute  
 State: CO Zip: 81635  
 Phone #: 970-712-6049  
 Email: tammy.gose@terraep.com

Sampler Name (Print): TORRAEP PLANT

For Lab Use	Sample Name or Location	Collected		Matrix (check one)							# of containers		ANALYSIS REQUEST					
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER	No preservation (general)	HNO <sub>3</sub>		HCl	H <sub>2</sub> SO <sub>4</sub>	Other:	Other:	
2307-129																		
	01 DUM Well	7-12-2023	1025	<input checked="" type="checkbox"/>							3	1	1					5
	02 TOMPKINS SAVAGE	7-12-2023	1230	<input checked="" type="checkbox"/>							3	1	1					5
	03 TOMPKINS MUD-1	7-12-2023	1400	<input checked="" type="checkbox"/>							6	8	1					5

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 analysis. 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.

Relinquished by: [Signature] Date: 7-12-2023 Time: 8:00 Received by: [Signature] Date: 7/14/23 Time: 10:15

Relinquished by: [Signature] Date: 7/14/23 Time: 10:15 Received by: [Signature] Date: 7/14/23 Time: 10:15

Relinquished by: [Signature] Date: 7/14/23 Time: 10:15 Received by: [Signature] Date: 7/14/23 Time: 10:15

Relinquished by: [Signature] Date: 7/14/23 Time: 10:15 Received by: [Signature] Date: 7/14/23 Time: 10:15

ADDITIONAL REMARKS: Report to State? (Circle)

one TPH bottle for DUM well had a small air bubble.  
 -RSHYTS bottles for Tompkins MUD-1 are unrepresented.

Temperature at receipt: 3.0°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 Check Printing Form M17-0301

# Project Information

Printed: 07/14/2023 10:38 am

## Western Water & Land, Inc.

743 Horizon Ct, Suite 330  
Grand Junction, CO 81506  
Laboratory PM: Jeremy D Allen

er & Land, Inc

Phone: (970) 242-0170  
Fax:

**Project Name:** Rule 615  
**Project Number:** Rule 615  
**Client PM:** Bruce Smith  
**Comments:**

Analysis	Comment
----------	---------

Alkalinity, Total  
Barium Dissolved by ICPMS  
BART - Iron Related Bacteria  
BART - Slyme Forming Bacteria  
BART - Sulfate Reducing Bacteria  
Boron Dissolved by ICP  
Bromide [IC]  
CAB  
Calcium Dissolved by ICP  
Chloride [IC]  
Conductivity  
Fluoride [IC]  
Iron Dissolved by ICP  
Magnesium Dissolved by ICP  
Manganese Dissolved by ICPMS  
Nitrate/Nitrite by IC Package  
pH  
Phosphate as P, Total [LACHAT]  
Potassium Dissolved by ICP  
Selenium Dissolved by ICPMS  
Sodium Dissolved by ICP  
Strontium Dissolved by ICP  
Sub - BTEX 8260  
Sub - RSK-175 (Sunstar)  
Sub - TPH 8015M- GRO, DRO, ORO  
Sulfate [IC]  
Total Dissolved Solids [TDS]

Request Methane, Ethane, and Propane on Sunstar COC

### **Nitrate/Nitrite by IC Package subanalyses:**

Nitrate [IC]  
Nitrite [IC]



### SAMPLE CONDITION RECEIPT FORM

Client Name: WESTON WATER & LAND INC.

Work Order # 2307-129

Courier:  Fed Ex  UPS  USPS  Client  Kangaroo

Custody Seals on Box/Cooler Present:  Yes  No

Seals Intact:  Yes  No

Thermometer Used: #2 Samples on ice, cooling process has begun:  Yes  No

Type of Ice:  Wet  Blue  None

Cooler Temp: Observed Temp: 3.0 °C Correction Factor: 0 °C Final Temp: 3.0 °C

\* Temp should be above freezing to 6°C

Date/Initials of person examining contents: 7/14/23  
[Signature]  
Labeled by Initials: \_\_\_\_\_  
(If different than above)

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	3.
Sampler Name and Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4.
Samples arrived within hold time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. "01" PH + NOX O.O. HOLD
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. PH / BART / NOX
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Dissolved Testing Needed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. DISS.
Field Filtered: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Sample Labels match COC: -Includes Date/Time/ID	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12.
Matrix:	<input checked="" type="checkbox"/> WT <input type="checkbox"/> SL <input type="checkbox"/> OT	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	

Client Notification/Resolution:

Person Contacted: BRUCE SMITH

Date/Time: 7/14/23 @ 11:05

Comments/Resolution: INFORMED CLIENT ABOUT DELAY OF FREIGHT / GOODS VIA FEDEX. ALL STIM WERE @ TEMP. HOWEVER "01" PH/NOX & DISS 'OUT OF HOLD' -> CLIENT WAS OKAY WITH HOLD ISSUES  
We will Rvx them O.O.H

Laboratory Sample ID: 2307-129-01

Start Date: 7/14/2023

Sample Name: Dunn Well

**BART Type :**                      **DATE:**

7/15/2023	7/16/2023	7/17/2023	7/18/2023	7/19/2023	7/20/2023	7/21/2023	7/23/2023	7/24/2023	7/25/2023
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<b>APB</b> Purple (Acid Producing Bacteria )										
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Reaction Code										

<b>IRB</b> Red (Iron Related Bacteria)										
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	FO	FO	FO	FO	FO	FO	BR/FO

<b>SLYM</b> Green (Slime Forming Bacteria)										
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	PB	PB	PB	PB	PB	PB	PB

<b>SRB</b> Black (Sulfate Reducing Bacteria)										
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
---------------	------	--------	-----

**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

+

Laboratory Sample ID: 2307-129-02

Start Date: 7/14/2023

Sample Name: Tompkins Savage

**BART Type :**

**DATE:**

7/15/2023	7/16/2023	7/17/2023	7/18/2023	7/19/2023	7/20/2023	7/21/2023	7/22/2023	7/23/2023	7/24/2023
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<b>APB</b> Purple (Acid Producing Bacteria )										
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Reaction Code										

<b>IRB</b> Red (Iron Related Bacteria)										
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	A	A	FO	FO	FO	FO	FO

<b>SLYM</b> Green (Slime Forming Bacteria)										
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	PB	PB	PB	PB	PB	PB	PB

<b>SRB</b> Black (Sulfate Reducing Bacteria)										
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	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: 2307-129-03

Start Date: 7/14/2023

Sample Name: Tompkins MW-1

**BART Type :**

**DATE:**

7/15/2023	7/16/2023	7/17/2023	7/18/2023	7/19/2023	7/20/2023	7/21/2023	7/22/2023	7/23/2023	7/24/2023
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<b>APB</b> Purple (Acid Producing Bacteria )										
Time Lag (days)	1	2	3	4	5	6	7	8	9	10
Approx. Population	475,000	82,000	14000	4500	450	75	10	< 2	n/a	n/a
Reaction Code										

<b>IRB</b> Red (Iron Related Bacteria)										
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	FO	FO	FO	FO	FO	FO	BR

<b>SLYM</b> Green (Slime Forming Bacteria)										
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	PB	PB	PB	PB	PB	PB	PB	PB	PB

<b>SRB</b> Black (Sulfate Reducing Bacteria)										
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
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