

9/9/2020

Washoe County Water ResourcesCSD
PO Box 11130
Reno, NV 89502
Attn: Dylan Menes

OrderID: 20080654

Dear: Dylan Menes

This is to transmit the attached analytical report. The analytical data and information contained therein was generated using specified or selected methods contained in references, such as Standard Methods for the Examination of Water and Wastewater, online edition, Methods for Determination of Organic Compounds in Drinking Water, EPA-600/4-79-020, and Test Methods for Evaluation of Solid Waste, Physical/Chemical Methods (SW846) Third Edition.

The samples were received by WETLAB-Western Environmental Testing Laboratory in good condition on 8/18/2020. Additional comments are located on page 2 of this report.

If you should have any questions or comments regarding this report, please do not hesitate to call.

Sincerely,



Cory Baker
QA Specialist

SPARKS

475 E. Greg Street, Suite 119
Sparks, Nevada 89431
tel (775) 355-0202
fax (775) 355-0817
EPA LAB ID: NV00925 - ELAP No: 2523

ELKO

1084 Lamoille Hwy
Elko, Nevada 89801
tel (775) 777-9933
fax (775) 777-9933
EPA LAB ID: NV00926

LAS VEGAS

3230 Polaris Ave. Suite 4
Las Vegas, Nevada 89102
tel (702) 475-8899
fax (702) 622-2868
EPA LAB ID: NV00932

Western Environmental Testing Laboratory

Report Comments

Washoe County Water Resources CSD - 20080654

Specific Report Comments

Due to the sample matrix it was necessary to analyze the following at a dilution:

20080654-001, 002, 003, 004, 005 and 006

for Fluoride, Nitrate Nitrogen and Nitrite Nitrogen

The reporting limits have been adjusted accordingly.

Report Legend

- B -- Blank contamination; Analyte detected above the method reporting limit in an associated blank
- D -- Due to the sample matrix dilution was required in order to properly detect and report the analyte. The reporting limit has been adjusted accordingly.
- HT -- Sample analyzed beyond the accepted holding time
- J -- The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit. The reported result should be considered an estimate.
- K -- The TPH Diesel Concentration reported here likely includes some heavier TPH Oil hydrocarbons reported in the TPH Diesel range as per EPA 8015.
- L -- The TPH Oil Concentration reported here likely includes some lighter TPH Diesel hydrocarbons reported in the TPH Oil range as per EPA 8015.
- M -- The matrix spike/matrix spike duplicate (MS/MSD) values for the analysis of this parameter were outside acceptance criteria due to probable matrix interference. The reported result should be considered an estimate.
- N -- There was insufficient sample available to perform a spike and/or duplicate on this analytical batch.
- NC -- Not calculated due to matrix interference
- QD -- The sample duplicate or matrix spike duplicate analysis demonstrated sample imprecision. The reported result should be considered an estimate.
- QL -- The result for the laboratory control sample (LCS) was outside WETLAB acceptance criteria and reanalysis was not possible. The reported data should be considered an estimate.
- S -- Surrogate recovery was outside of laboratory acceptance limits due to matrix interference. The associated blank and LCS surrogate recovery was within acceptance limits
- SC -- Spike recovery not calculated. Sample concentration >4X the spike amount; therefore, the spike could not be adequately recovered
- U -- The analyte was analyzed for, but was not detected above the level of the reported sample reporting/quantitation limit. The reported result should be considered an estimate.

General Lab Comments

Per method recommendation (section 4.4), Samples analyzed by methods EPA 300.0 and EPA 300.1 have been filtered prior to analysis.

The following is an interpretation of the results from EPA method 9223B:

A result of zero (0) indicates absence for both coliform and Escherichia coli meaning the water meets the microbiological requirements of the U.S. EPA Safe Drinking Water Act (SDWA). A result of one (1) for either test indicates presence and the water does not meet the SDWA requirements. Waters with positive tests should be disinfected by a certified water treatment operator and retested.

Per federal regulation the holding time for the following parameters in aqueous/water samples is 15 minutes: Residual Chlorine, pH, Dissolved Oxygen, Sulfite.

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Western Environmental Testing Laboratory

Analytical Report

Washoe County Water ResourcesCSD

Date Printed: 9/9/2020

PO Box 11130

OrderID: 20080654

Reno, NV 89502

Attn: Dylan Menes

Phone: (775) 954-4612 Fax: NoFax

PO\Project: Swan Lake

Customer Sample ID: Swan Lake - Compton

Collect Date/Time: 8/18/2020 12:01

WETLAB Sample ID: 20080654-001

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
Total Phosphorous as P	SM 4500-P E	0.65	mg/L	1	0.020	8/20/2020	NV00925
Total Nitrogen	Calc.	3.6	mg/L	1	1.4	8/25/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	1400	mg/L	1	25	8/19/2020	NV00925
<u>Microbiological Analyses</u>							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	22.1	MPN/100ml	1	1.0	8/18/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	>2419.6	MPN/100ml	1	1.0	8/18/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	46.7	MPN/100ml	1	1.0	8/18/2020	NV00925
<u>Anions by Ion Chromatography</u>							
Fluoride	EPA 300.0	ND	D mg/L	5	1.5	8/19/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	8/19/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	8/19/2020	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	3.6	M mg/L	1	0.40	8/25/2020	NV00925
<u>Trace Metals by ICP-OES</u>							
Beryllium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Boron	EPA 200.7	0.65	mg/L	1	0.10	8/31/2020	NV00925
Cadmium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Chromium	EPA 200.7	ND	mg/L	1	0.0050	8/31/2020	NV00925
Copper	EPA 200.7	ND	mg/L	1	0.040	8/31/2020	NV00925
Iron	EPA 200.7	4.1	mg/L	1	0.10	8/31/2020	NV00925
Manganese	EPA 200.7	0.28	mg/L	1	0.010	8/31/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	8/31/2020	NV00925
Zinc	EPA 200.7	ND	mg/L	1	0.020	8/31/2020	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.065	mg/L	1	0.0050	8/31/2020	NV00925
Lead	EPA 200.8	0.0043	mg/L	1	0.0025	8/31/2020	NV00925
Selenium	EPA 200.8	ND	mg/L	1	0.0050	8/31/2020	NV00925
<u>Sample Preparation</u>							
Trace Metals Digestion	EPA 200.2	W200828-4B		1		8/28/2020	NV00925

DF=Dilution Factor, RL = Reporting Limit (minimum 3X the MDL), ND = Not Detected <RL or <MDL (if listed)

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475 E. Greg Street, Suite 119
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 Elko, Nevada 89801
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LAS VEGAS

3230 Polaris Ave. Suite 4
 Las Vegas, Nevada 89102
 tel (702) 475-8899
 fax (702) 622-2868
 EPA LAB ID: NV00932

Customer Sample ID: Swan Lake - Pompe

Collect Date/Time: 8/18/2020 12:35

WETLAB Sample ID: 20080654-002

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
Total Phosphorous as P	SM 4500-P E	0.20	mg/L	1	0.020	8/20/2020	NV00925
Total Nitrogen	Calc.	3.0	mg/L	1	1.4	8/25/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	1100	mg/L	1	25	8/19/2020	NV00925
<u>Microbiological Analyses</u>							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	ND	MPN/100ml	1	1.0	8/18/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	1986.3	MPN/100ml	1	1.0	8/18/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	ND	MPN/100ml	1	1.0	8/18/2020	NV00925
<u>Anions by Ion Chromatography</u>							
Fluoride	EPA 300.0	ND	D mg/L	5	1.5	8/19/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	8/19/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	8/19/2020	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	2.9	mg/L	1	0.40	8/25/2020	NV00925
<u>Trace Metals by ICP-OES</u>							
Beryllium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Boron	EPA 200.7	0.68	mg/L	1	0.10	8/31/2020	NV00925
Cadmium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Chromium	EPA 200.7	ND	mg/L	1	0.0050	8/31/2020	NV00925
Copper	EPA 200.7	ND	mg/L	1	0.040	8/31/2020	NV00925
Iron	EPA 200.7	1.8	mg/L	1	0.10	8/31/2020	NV00925
Manganese	EPA 200.7	0.067	mg/L	1	0.010	8/31/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	8/31/2020	NV00925
Zinc	EPA 200.7	ND	mg/L	1	0.020	8/31/2020	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.065	mg/L	1	0.0050	8/31/2020	NV00925
Lead	EPA 200.8	ND	mg/L	1	0.0025	8/31/2020	NV00925
Selenium	EPA 200.8	ND	mg/L	1	0.0050	8/31/2020	NV00925
<u>Sample Preparation</u>							
Trace Metals Digestion	EPA 200.2	W200828-4B		1		8/28/2020	NV00925

Customer Sample ID: Swan Lake - Jean

Collect Date/Time: 8/18/2020 12:25

WETLAB Sample ID: 20080654-003

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
Total Phosphorous as P	SM 4500-P E	0.44	mg/L	1	0.020	8/20/2020	NV00925
Total Nitrogen	Calc.	3.0	mg/L	1	1.4	8/25/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	1300	mg/L	1	25	8/19/2020	NV00925
<u>Microbiological Analyses</u>							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	118.7	MPN/100ml	1	1.0	8/18/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	>2419.6	MPN/100ml	1	1.0	8/18/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	114.5	MPN/100ml	1	1.0	8/18/2020	NV00925

DF=Dilution Factor, RL = Reporting Limit (minimum 3X the MDL), ND = Not Detected <RL or <MDL (if listed)

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475 E. Greg Street, Suite 119
 Sparks, Nevada 89431
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ELKO

1084 Lamoille Hwy
 Elko, Nevada 89801
 tel (775) 777-9933
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 EPA LAB ID: NV00926

LAS VEGAS

3230 Polaris Ave. Suite 4
 Las Vegas, Nevada 89102
 tel (702) 475-8899
 fax (702) 622-2868
 EPA LAB ID: NV00932

Customer Sample ID: Swan Lake - Jean

Collect Date/Time: 8/18/2020 12:25

WETLAB Sample ID: 20080654-003

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>Anions by Ion Chromatography</u>							
Fluoride	EPA 300.0	ND	D mg/L	5	1.5	8/19/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	8/19/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	8/19/2020	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	2.9	mg/L	1	0.40	8/25/2020	NV00925
<u>Trace Metals by ICP-OES</u>							
Beryllium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Boron	EPA 200.7	0.69	mg/L	1	0.10	8/31/2020	NV00925
Cadmium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Chromium	EPA 200.7	ND	mg/L	1	0.0050	8/31/2020	NV00925
Copper	EPA 200.7	ND	mg/L	1	0.040	8/31/2020	NV00925
Iron	EPA 200.7	2.2	mg/L	1	0.10	8/31/2020	NV00925
Manganese	EPA 200.7	0.10	mg/L	1	0.010	8/31/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	8/31/2020	NV00925
Zinc	EPA 200.7	ND	mg/L	1	0.020	8/31/2020	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.070	mg/L	1	0.0050	8/31/2020	NV00925
Lead	EPA 200.8	ND	mg/L	1	0.0025	8/31/2020	NV00925
Selenium	EPA 200.8	ND	mg/L	1	0.0050	8/31/2020	NV00925
<u>Sample Preparation</u>							
Trace Metals Digestion	EPA 200.2	W200828-4B		1		8/28/2020	NV00925

Customer Sample ID: Am-Flats - Spigot

Collect Date/Time: 8/18/2020 13:48

WETLAB Sample ID: 20080654-004

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
Total Phosphorous as P	SM 4500-P E	0.50	mg/L	1	0.020	8/20/2020	NV00925
Total Nitrogen	Calc.	3.8	mg/L	1	1.4	8/25/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	1300	mg/L	1	25	8/19/2020	NV00925
<u>Microbiological Analyses</u>							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	ND	MPN/100ml	1	1.0	8/18/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	>2419.6	MPN/100ml	1	1.0	8/18/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	ND	MPN/100ml	1	1.0	8/18/2020	NV00925
<u>Anions by Ion Chromatography</u>							
Fluoride	EPA 300.0	ND	D mg/L	5	1.5	8/19/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	8/19/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D,M mg/L	5	0.30	8/19/2020	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	3.8	mg/L	1	0.40	8/25/2020	NV00925
<u>Trace Metals by ICP-OES</u>							
Beryllium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Boron	EPA 200.7	0.64	mg/L	1	0.10	8/31/2020	NV00925

DF=Dilution Factor, RL = Reporting Limit (minimum 3X the MDL), ND = Not Detected <RL or <MDL (if listed)

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3230 Polaris Ave. Suite 4
 Las Vegas, Nevada 89102
 tel (702) 475-8899
 fax (702) 622-2868
 EPA LAB ID: NV00932

Customer Sample ID: Am-Flats - Spigot

Collect Date/Time: 8/18/2020 13:48

WETLAB Sample ID: 20080654-004

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
Cadmium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Chromium	EPA 200.7	0.014	mg/L	1	0.0050	8/31/2020	NV00925
Copper	EPA 200.7	0.078	mg/L	1	0.040	8/31/2020	NV00925
Iron	EPA 200.7	29	SC mg/L	5	0.50	9/1/2020	NV00925
Manganese	EPA 200.7	1.9	mg/L	1	0.010	8/31/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	8/31/2020	NV00925
Zinc	EPA 200.7	2.0	mg/L	1	0.020	8/31/2020	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.075	mg/L	1	0.0050	8/31/2020	NV00925
Lead	EPA 200.8	0.014	mg/L	1	0.0025	8/31/2020	NV00925
Selenium	EPA 200.8	ND	M mg/L	1	0.0050	8/31/2020	NV00925
<u>Sample Preparation</u>							
Trace Metals Digestion	EPA 200.2	W200831-1A		1		8/31/2020	NV00925

Customer Sample ID: Silver Lake

Collect Date/Time: 8/18/2020 13:00

WETLAB Sample ID: 20080654-005

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
Total Phosphorous as P	SM 4500-P E	0.15	mg/L	1	0.020	8/20/2020	NV00925
Total Nitrogen	Calc.	6.3	mg/L	1	1.4	8/25/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	680	mg/L	1	25	8/19/2020	NV00925
<u>Microbiological Analyses</u>							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	30.1	MPN/100ml	1	1.0	8/18/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	>2419.6	MPN/100ml	1	1.0	8/18/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	20.1	MPN/100ml	1	1.0	8/18/2020	NV00925
<u>Anions by Ion Chromatography</u>							
Fluoride	EPA 300.0	ND	D mg/L	5	1.5	8/19/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	8/19/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	8/19/2020	NV00925
<u>Flow Injection Analyses</u>							
Total Kjeldahl Nitrogen	EPA 351.2	6.3	mg/L	1	0.40	8/25/2020	NV00925
<u>Trace Metals by ICP-OES</u>							
Beryllium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Boron	EPA 200.7	0.25	mg/L	1	0.10	8/31/2020	NV00925
Cadmium	EPA 200.7	ND	mg/L	1	0.0010	8/31/2020	NV00925
Chromium	EPA 200.7	ND	mg/L	1	0.0050	8/31/2020	NV00925
Copper	EPA 200.7	ND	mg/L	1	0.040	8/31/2020	NV00925
Iron	EPA 200.7	0.96	mg/L	1	0.10	8/31/2020	NV00925
Manganese	EPA 200.7	0.039	mg/L	1	0.010	8/31/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	8/31/2020	NV00925
Zinc	EPA 200.7	ND	mg/L	1	0.020	8/31/2020	NV00925
<u>Trace Metals by ICP-MS</u>							
Arsenic	EPA 200.8	0.026	mg/L	1	0.0050	8/31/2020	NV00925
Lead	EPA 200.8	ND	mg/L	1	0.0025	8/31/2020	NV00925

DF=Dilution Factor, RL = Reporting Limit (minimum 3X the MDL), ND = Not Detected <RL or <MDL (if listed)

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 fax (702) 622-2868
 EPA LAB ID: NV00932

Customer Sample ID: Silver Lake

Collect Date/Time: 8/18/2020 13:00

WETLAB Sample ID: 20080654-005

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
Selenium	EPA 200.8	ND	mg/L	1	0.0050	8/31/2020	NV00925
Sample Preparation							
Trace Metals Digestion	EPA 200.2	W200831-1A		1		8/31/2020	NV00925

Customer Sample ID: White Lake

Collect Date/Time: 8/18/2020 13:28

WETLAB Sample ID: 20080654-006

Receive Date: 8/18/2020 16:24

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
General Chemistry							
Total Phosphorous as P	SM 4500-P E	0.34	mg/L	1	0.020	8/20/2020	NV00925
Total Nitrogen	Calc.	22	mg/L	1	6.1	8/25/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	4200	mg/L	1	25	8/19/2020	NV00925
Microbiological Analyses							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	1454.5	MPN/100ml	5	5.0	8/18/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	>24196.	MPN/100ml	10	10.0	8/18/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	137.0	MPN/100ml	10	10.0	8/18/2020	NV00925
Anions by Ion Chromatography							
Fluoride	EPA 300.0	ND	D mg/L	10	3.0	8/19/2020	NV00925
Nitrate Nitrogen	EPA 300.0	5.1	mg/L	10	1.5	8/19/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	10	0.60	8/19/2020	NV00925
Flow Injection Analyses							
Total Kjeldahl Nitrogen	EPA 351.2	17	mg/L	10	4.0	8/25/2020	NV00925
Trace Metals by ICP-OES							
Beryllium	EPA 200.7	ND	D mg/L	10	0.010	9/4/2020	NV00925
Boron	EPA 200.7	5.0	mg/L	10	1.0	9/4/2020	NV00925
Cadmium	EPA 200.7	ND	D mg/L	10	0.010	9/4/2020	NV00925
Chromium	EPA 200.7	0.37	mg/L	10	0.050	9/4/2020	NV00925
Copper	EPA 200.7	1.6	mg/L	10	0.40	9/4/2020	NV00925
Iron	EPA 200.7	620	mg/L	10	1.0	9/4/2020	NV00925
Manganese	EPA 200.7	20	mg/L	10	0.10	9/4/2020	NV00925
Nickel	EPA 200.7	0.34	mg/L	10	0.30	9/4/2020	NV00925
Zinc	EPA 200.7	2.0	mg/L	10	0.20	9/4/2020	NV00925
Trace Metals by ICP-MS							
Arsenic	EPA 200.8	1.9	mg/L	10	0.050	9/4/2020	NV00925
Lead	EPA 200.8	0.27	mg/L	10	0.025	9/4/2020	NV00925
Selenium	EPA 200.8	ND	D mg/L	10	0.050	9/4/2020	NV00925
Sample Preparation							
Trace Metals Digestion	EPA 200.2	W200904-5A		1		9/4/2020	NV00925

DF=Dilution Factor, RL = Reporting Limit (minimum 3X the MDL), ND = Not Detected <RL or <MDL (if listed)

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SPARKS

475 E. Greg Street, Suite 119
 Sparks, Nevada 89431
 tel (775) 355-0202
 fax (775) 355-0817
 EPA LAB ID: NV00925 - ELAP No: 2523

ELKO

1084 Lamoille Hwy
 Elko, Nevada 89801
 tel (775) 777-9933
 fax (775) 777-9933
 EPA LAB ID: NV00926

LAS VEGAS

3230 Polaris Ave. Suite 4
 Las Vegas, Nevada 89102
 tel (702) 475-8899
 fax (702) 622-2868
 EPA LAB ID: NV00932

Western Environmental Testing Laboratory

QC Report

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20080787	Blank 1	Total Dissolved Solids (TDS)	SM 2540C	ND			mg/L
QC20080815	Blank 1	Total Coliform (MPN)	SM 9223B (Quant	ND			MPN/100ml
		Escherichia Coli (MPN)	SM 9223B (Quant	ND			MPN/100ml
QC20080824	Blank 1	Fecal Coliform (MPN)	IDEXX Quant/Col	ND			MPN/100ml
QC20080844	Blank 1	Fluoride	EPA 300.0	ND			mg/L
		Nitrate Nitrogen	EPA 300.0	ND			mg/L
		Nitrite Nitrogen	EPA 300.0	ND			mg/L
QC20080849	Blank 1	Total Phosphorous as P	SM 4500-P E	ND			mg/L
QC20081045	Blank 1	Total Kjeldahl Nitrogen	EPA 351.2	ND			mg/L
QC20081306	Blank 1	Beryllium, Dissolved	EPA 200.7	ND			mg/L
		Boron, Dissolved	EPA 200.7	ND			mg/L
		Cadmium, Dissolved	EPA 200.7	ND			mg/L
		Chromium, Dissolved	EPA 200.7	ND			mg/L
		Copper, Dissolved	EPA 200.7	ND			mg/L
		Iron, Dissolved	EPA 200.7	ND			mg/L
		Manganese, Dissolved	EPA 200.7	ND			mg/L
		Nickel, Dissolved	EPA 200.7	ND			mg/L
		Zinc, Dissolved	EPA 200.7	ND			mg/L
QC20081307	Blank 1	Beryllium	EPA 200.7	ND			mg/L
		Boron	EPA 200.7	ND			mg/L
		Cadmium	EPA 200.7	ND			mg/L
		Chromium	EPA 200.7	ND			mg/L
		Copper	EPA 200.7	ND			mg/L
		Iron	EPA 200.7	ND			mg/L
		Manganese	EPA 200.7	ND			mg/L
		Nickel	EPA 200.7	ND			mg/L
		Zinc	EPA 200.7	ND			mg/L
QC20090018	Blank 1	Arsenic, Dissolved	EPA 200.8	ND			mg/L
		Lead, Dissolved	EPA 200.8	ND			mg/L
		Selenium, Dissolved	EPA 200.8	ND			mg/L
QC20090027	Blank 1	Arsenic	EPA 200.8	ND			mg/L
		Lead	EPA 200.8	ND			mg/L
		Selenium	EPA 200.8	ND			mg/L
QC20090244	Blank 1	Beryllium, Dissolved	EPA 200.7	ND			mg/L
		Boron, Dissolved	EPA 200.7	ND			mg/L
		Cadmium, Dissolved	EPA 200.7	ND			mg/L
		Chromium, Dissolved	EPA 200.7	ND			mg/L
		Copper, Dissolved	EPA 200.7	ND			mg/L
		Iron, Dissolved	EPA 200.7	ND			mg/L
		Manganese, Dissolved	EPA 200.7	ND			mg/L
		Nickel, Dissolved	EPA 200.7	ND			mg/L
		Zinc, Dissolved	EPA 200.7	ND			mg/L
QC20090266	Blank 1	Arsenic, Dissolved	EPA 200.8	ND			mg/L
		Lead, Dissolved	EPA 200.8	ND			mg/L
		Selenium, Dissolved	EPA 200.8	ND			mg/L
QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20080787	LCS 1	Total Dissolved Solids (TDS)	SM 2540C	135	150	90	mg/L

DF=Dilution Factor, RL = Reporting Limit (minimum 3X the MDL), ND = Not Detected <RL or <MDL (if listed)

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SPARKS

475 E. Greg Street, Suite 119
Sparks, Nevada 89431
tel (775) 355-0202
fax (775) 355-0817
EPA LAB ID: NV00925 - ELAP No: 2523

ELKO

1084 Lamoille Hwy
Elko, Nevada 89801
tel (775) 777-9933
fax (775) 777-9933
EPA LAB ID: NV00926

LAS VEGAS

3230 Polaris Ave. Suite 4
Las Vegas, Nevada 89102
tel (702) 475-8899
fax (702) 622-2868
EPA LAB ID: NV00932

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20080787	LCS 2	Total Dissolved Solids (TDS)	SM 2540C	141	150	94	mg/L
QC20080844	LCS 1	Fluoride	EPA 300.0	1.84	2.00	92	mg/L
		Nitrate Nitrogen	EPA 300.0	1.98	2.00	99	mg/L
		Nitrite Nitrogen	EPA 300.0	0.498	0.500	100	mg/L
QC20080849	LCS 1	Total Phosphorous as P	SM 4500-P E	0.250	0.250	100	mg/L
QC20081045	LCS 1	Total Kjeldahl Nitrogen	EPA 351.2	0.946	1.00	95	mg/L
QC20081306	LCS 1	Beryllium, Dissolved	EPA 200.7	0.997	1.00	100	mg/L
		Boron, Dissolved	EPA 200.7	0.995	1.00	100	mg/L
		Cadmium, Dissolved	EPA 200.7	0.975	1.00	98	mg/L
		Chromium, Dissolved	EPA 200.7	0.982	1.00	98	mg/L
		Copper, Dissolved	EPA 200.7	5.00	5.00	100	mg/L
		Iron, Dissolved	EPA 200.7	0.971	1.00	97	mg/L
		Manganese, Dissolved	EPA 200.7	1.00	1.00	100	mg/L
		Nickel, Dissolved	EPA 200.7	4.97	5.00	100	mg/L
		Zinc, Dissolved	EPA 200.7	0.987	1.00	99	mg/L
QC20081307	LCS 1	Beryllium	EPA 200.7	0.989	1.00	99	mg/L
		Boron	EPA 200.7	0.982	1.00	98	mg/L
		Cadmium	EPA 200.7	0.966	1.00	97	mg/L
		Chromium	EPA 200.7	0.981	1.00	98	mg/L
		Copper	EPA 200.7	4.96	5.00	99	mg/L
		Iron	EPA 200.7	0.998	1.00	100	mg/L
		Manganese	EPA 200.7	0.982	1.00	98	mg/L
		Nickel	EPA 200.7	4.86	5.00	97	mg/L
		Zinc	EPA 200.7	0.981	1.00	98	mg/L
QC20090018	LCS 1	Arsenic, Dissolved	EPA 200.8	0.0461	0.050	92	mg/L
		Lead, Dissolved	EPA 200.8	0.0095	0.010	95	mg/L
		Selenium, Dissolved	EPA 200.8	0.0462	0.050	92	mg/L
QC20090027	LCS 1	Arsenic	EPA 200.8	0.0474	0.050	95	mg/L
		Lead	EPA 200.8	0.0097	0.010	97	mg/L
		Selenium	EPA 200.8	0.0480	0.050	96	mg/L
QC20090244	LCS 1	Beryllium, Dissolved	EPA 200.7	0.986	1.00	99	mg/L
		Boron, Dissolved	EPA 200.7	0.972	1.00	97	mg/L
		Cadmium, Dissolved	EPA 200.7	0.970	1.00	97	mg/L
		Chromium, Dissolved	EPA 200.7	0.982	1.00	98	mg/L
		Copper, Dissolved	EPA 200.7	5.00	5.00	100	mg/L
		Iron, Dissolved	EPA 200.7	0.969	1.00	97	mg/L
		Manganese, Dissolved	EPA 200.7	0.996	1.00	100	mg/L
		Nickel, Dissolved	EPA 200.7	4.88	5.00	98	mg/L
		Zinc, Dissolved	EPA 200.7	0.989	1.00	99	mg/L
QC20090266	LCS 1	Arsenic, Dissolved	EPA 200.8	0.0493	0.050	99	mg/L
		Lead, Dissolved	EPA 200.8	0.0105	0.010	105	mg/L
		Selenium, Dissolved	EPA 200.8	0.0495	0.050	99	mg/L

QCBatchID	QCType	Parameter	Method	Duplicate Sample	Sample Result	Duplicate Result	Units	RPD
QC20080787	Duplicate 1	Total Dissolved Solids (TDS)	SM 2540C	20080612-002	778	914	QD mg/L	16 %
QC20080787	Duplicate 2	Total Dissolved Solids (TDS)	SM 2540C	20080645-008	584	682	QD mg/L	16 %

QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
QC20080844	MS 1	Fluoride	EPA 300.0	20080654-004	ND	D 10.2	9.86	2	mg/L	96	93	3
		Nitrate Nitrogen	EPA 300.0	20080654-004	ND	D 10.8	10.7	2	mg/L	108	107	<1
		Nitrite Nitrogen	EPA 300.0	20080654-004	ND	D,M 3.34	3.28	0.5	mg/L	NC	NC	NC

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 EPA LAB ID: NV00925 - ELAP No: 2523

ELKO

1084 Lamoille Hwy
 Elko, Nevada 89801
 tel (775) 777-9933
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 EPA LAB ID: NV00926

LAS VEGAS

3230 Polaris Ave. Suite 4
 Las Vegas, Nevada 89102
 tel (702) 475-8899
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QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
QC20080849	MS 1	Total Phosphorous as P	SM 4500-P E	20080612-002	0.099	0.368	0.328	0.25	mg/L	107	91	12
QC20080849	MS 2	Total Phosphorous as P	SM 4500-P E	20080667-001	ND	0.272	0.279	0.25	mg/L	106	109	2
QC20081045	MS 1	Total Kjeldahl Nitrogen	EPA 351.2	20080654-001	3.56	M 4.39	4.59	1	mg/L	NC	NC	NC
QC20081045	MS 2	Total Kjeldahl Nitrogen	EPA 351.2	20080730-003	0.661	1.72	1.58	1	mg/L	105	92	8
QC20081306	MS 1	Beryllium, Dissolved	EPA 200.7	20080645-005	ND	0.982	0.980	1	mg/L	98	98	<1
		Boron, Dissolved	EPA 200.7	20080645-005	0.185	1.17	1.17	1	mg/L	98	99	<1
		Cadmium, Dissolved	EPA 200.7	20080645-005	ND	0.987	0.980	1	mg/L	99	98	<1
		Chromium, Dissolved	EPA 200.7	20080645-005	ND	0.983	0.980	1	mg/L	98	98	<1
		Copper, Dissolved	EPA 200.7	20080645-005	ND	5.06	5.07	5	mg/L	101	101	<1
		Iron, Dissolved	EPA 200.7	20080645-005	ND	1.00	0.992	1	mg/L	100	99	<1
		Manganese, Dissolved	EPA 200.7	20080645-005	ND	0.966	0.970	1	mg/L	96	97	<1
		Nickel, Dissolved	EPA 200.7	20080645-005	ND	4.82	4.82	5	mg/L	96	96	<1
		Zinc, Dissolved	EPA 200.7	20080645-005	ND	0.993	0.992	1	mg/L	99	99	<1
QC20081307	MS 1	Beryllium	EPA 200.7	20080654-004	ND	0.968	0.979	1	mg/L	97	98	1
		Boron	EPA 200.7	20080654-004	0.637	1.61	1.64	1	mg/L	98	100	2
		Cadmium	EPA 200.7	20080654-004	ND	0.896	0.898	1	mg/L	90	90	<1
		Chromium	EPA 200.7	20080654-004	0.014	0.872	0.883	1	mg/L	86	87	1
		Copper	EPA 200.7	20080654-004	0.078	5.03	5.06	5	mg/L	99	100	<1
		Iron	EPA 200.7	20080654-004	29.2	SC 35.5	35.2	1	mg/L	NC	NC	NC
		Manganese	EPA 200.7	20080654-004	1.93	2.76	2.82	1	mg/L	83	89	2
		Nickel	EPA 200.7	20080654-004	ND	4.35	4.35	5	mg/L	87	87	<1
		Zinc	EPA 200.7	20080654-004	1.97	2.75	2.78	1	mg/L	79	82	1
QC20090018	MS 1	Arsenic, Dissolved	EPA 200.8	20080645-005	0.0053	0.0556	0.0546	0.05	mg/L	101	99	2
		Lead, Dissolved	EPA 200.8	20080645-005	ND	0.0097	0.0098	0.01	mg/L	96	98	1
		Selenium, Dissolved	EPA 200.8	20080645-005	ND	0.0522	0.0519	0.05	mg/L	101	101	<1
QC20090027	MS 1	Arsenic	EPA 200.8	20080654-004	0.0750	0.1170	0.1153	0.05	mg/L	84	81	2
		Lead	EPA 200.8	20080654-004	0.0136	0.0217	0.0213	0.01	mg/L	81	78	2
		Selenium	EPA 200.8	20080654-004	ND	M 0.0288	0.0304	0.05	mg/L	NC	NC	NC
QC20090244	MS 1	Beryllium, Dissolved	EPA 200.7	20080992-001	ND	0.988	1.00	1	mg/L	99	100	1
		Boron, Dissolved	EPA 200.7	20080992-001	0.113	1.08	1.10	1	mg/L	97	98	2
		Cadmium, Dissolved	EPA 200.7	20080992-001	ND	0.935	0.935	1	mg/L	93	94	<1
		Chromium, Dissolved	EPA 200.7	20080992-001	0.027	0.988	0.990	1	mg/L	96	96	<1
		Copper, Dissolved	EPA 200.7	20080992-001	ND	5.05	5.09	5	mg/L	101	102	<1
		Iron, Dissolved	EPA 200.7	20080992-001	ND	1.03	1.02	1	mg/L	96	95	1
		Manganese, Dissolved	EPA 200.7	20080992-001	0.346	1.32	1.34	1	mg/L	98	99	2
		Nickel, Dissolved	EPA 200.7	20080992-001	0.059	4.76	4.77	5	mg/L	94	94	<1
		Zinc, Dissolved	EPA 200.7	20080992-001	0.425	1.38	1.39	1	mg/L	96	96	<1
QC20090266	MS 1	Arsenic, Dissolved	EPA 200.8	20080992-001	0.0121	0.0598	0.0616	0.05	mg/L	95	99	3
		Lead, Dissolved	EPA 200.8	20080992-001	ND	0.0108	0.0111	0.01	mg/L	100	103	3
		Selenium, Dissolved	EPA 200.8	20080992-001	ND	0.0532	0.0568	0.05	mg/L	100	108	6

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