

2/13/2020

Washoe County Water ResourcesCSD  
PO Box 11130  
Reno, NV 89502  
Attn: Ben Jesch

OrderID: 20010825

Dear: Ben Jesch

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 1/30/2020. 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,



Jennifer Delaney  
QA Manager

**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 Lamaille 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 - 20010825

### Specific Report Comments

The analysis of the laboratory method blank revealed concentrations of Biochemical Oxygen Demand above the method required limit during the analysis for all samples. We apologize for any inconvenience this may have caused.

### 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: 2/13/2020

PO Box 11130

OrderID: 20010825

Reno, NV 89502

Attn: Ben Jesch

Phone: (775) 954-4612 Fax: NoFax

PO\Project: Swan Lake/10 49300

Customer Sample ID: Compton

Collect Date/Time: 1/30/2020 11:00

WETLAB Sample ID: 20010825-001

Receive Date: 1/30/2020 12:27

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b>General Chemistry</b>							
Ammonia, as Nitrogen	SM 4500 NH3 D	0.058	mg/L	1	0.050	2/3/2020	NV00925
Total Phosphorous as P	SM 4500-P E	0.73	M mg/L	1	0.020	2/3/2020	NV00925
Total Suspended Solids (TSS)	SM 2540D	14	mg/L	1	10	1/30/2020	NV00925
Biochemical Oxygen Demand	SM 5210B	9.5	B mg/L	1	2.0	1/30/2020	NV00925
Total Nitrogen	Calc.	1.9	mg/L	1	1.4	2/5/2020	NV00925
<b>Microbiological Analyses</b>							
Total Coliform (MPN)	SM 9223B (Quantitray)	59.4	MPN/100ml	1	1.0	1/30/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	1.0	MPN/100ml	1	1.0	1/30/2020	NV00925
<b>Anions by Ion Chromatography</b>							
Chloride	EPA 300.0	130	mg/L	5	5.0	1/30/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	1/30/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	1/30/2020	NV00925
Sulfate	EPA 300.0	140	mg/L	5	7.5	1/30/2020	NV00925
<b>Flow Injection Analyses</b>							
Total Kjeldahl Nitrogen	EPA 351.2	1.9	M mg/L	1	0.40	2/5/2020	NV00925
<b>Trace Metals by ICP-OES</b>							
Barium	EPA 200.7	0.044	mg/L	1	0.020	2/12/2020	NV00925
Iron	EPA 200.7	0.82	mg/L	1	0.10	2/12/2020	NV00925
Manganese	EPA 200.7	0.059	mg/L	1	0.010	2/12/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	2/12/2020	NV00925
<b>Trace Metals by ICP-MS</b>							
Arsenic	EPA 200.8	0.025	mg/L	1	0.0050	2/5/2020	NV00925
<b>Sample Preparation</b>							
Trace Metals Digestion	EPA 200.2	Complete		1		2/3/2020	NV00925

Customer Sample ID: Pompe

Collect Date/Time: 1/30/2020 11:50

WETLAB Sample ID: 20010825-002

Receive Date: 1/30/2020 12:27

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b>General Chemistry</b>							
Ammonia, as Nitrogen	SM 4500 NH3 D	0.34	mg/L	1	0.050	2/3/2020	NV00925
Total Phosphorous as P	SM 4500-P E	0.90	mg/L	2	0.040	2/3/2020	NV00925

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

Page 3 of 7

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475 E. Greg Street, Suite 119  
 Sparks, Nevada 89431  
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 Elko, Nevada 89801  
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**LAS VEGAS**

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 Las Vegas, Nevada 89102  
 tel (702) 475-8899  
 fax (702) 622-2868  
 EPA LAB ID: NV00932

Customer Sample ID: Pompe

Collect Date/Time: 1/30/2020 11:50

WETLAB Sample ID: 20010825-002

Receive Date: 1/30/2020 12:27

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
Total Suspended Solids (TSS)	SM 2540D	23	mg/L	1	10	1/30/2020	NV00925
Biochemical Oxygen Demand	SM 5210B	7.6	B mg/L	1	2.0	1/30/2020	NV00925
Total Nitrogen	Calc.	2.0	mg/L	1	1.4	2/5/2020	NV00925
<b><u>Microbiological Analyses</u></b>							
Total Coliform (MPN)	SM 9223B (Quantitray)	15.8	MPN/100ml	1	1.0	1/30/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	1.0	MPN/100ml	1	1.0	1/30/2020	NV00925
<b><u>Anions by Ion Chromatography</u></b>							
Chloride	EPA 300.0	130	mg/L	5	5.0	1/30/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	1/30/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	1/30/2020	NV00925
Sulfate	EPA 300.0	120	mg/L	5	7.5	1/30/2020	NV00925
<b><u>Flow Injection Analyses</u></b>							
Total Kjeldahl Nitrogen	EPA 351.2	1.8	mg/L	1	0.40	2/5/2020	NV00925
<b><u>Trace Metals by ICP-OES</u></b>							
Barium	EPA 200.7	0.055	mg/L	1	0.020	2/12/2020	NV00925
Iron	EPA 200.7	2.1	mg/L	1	0.10	2/12/2020	NV00925
Manganese	EPA 200.7	0.047	mg/L	1	0.010	2/12/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	2/12/2020	NV00925
<b><u>Trace Metals by ICP-MS</u></b>							
Arsenic	EPA 200.8	0.029	mg/L	1	0.0050	2/5/2020	NV00925
<b><u>Sample Preparation</u></b>							
Trace Metals Digestion	EPA 200.2	Complete		1		2/3/2020	NV00925

Customer Sample ID: Jean

Collect Date/Time: 1/30/2020 11:20

WETLAB Sample ID: 20010825-003

Receive Date: 1/30/2020 12:27

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b><u>General Chemistry</u></b>							
Ammonia, as Nitrogen	SM 4500 NH3 D	0.28	mg/L	1	0.050	2/3/2020	NV00925
Total Phosphorous as P	SM 4500-P E	1.2	mg/L	2	0.040	2/3/2020	NV00925
Total Suspended Solids (TSS)	SM 2540D	12	mg/L	1	10	1/30/2020	NV00925
Biochemical Oxygen Demand	SM 5210B	6.1	B mg/L	1	2.0	1/30/2020	NV00925
Total Nitrogen	Calc.	2.0	mg/L	1	1.4	2/5/2020	NV00925
<b><u>Microbiological Analyses</u></b>							
Total Coliform (MPN)	SM 9223B (Quantitray)	12.1	MPN/100ml	1	1.0	1/30/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	2.0	MPN/100ml	1	1.0	1/30/2020	NV00925
<b><u>Anions by Ion Chromatography</u></b>							
Chloride	EPA 300.0	120	mg/L	5	5.0	1/30/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	1/30/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	1/30/2020	NV00925
Sulfate	EPA 300.0	110	mg/L	5	7.5	1/30/2020	NV00925
<b><u>Flow Injection Analyses</u></b>							
Total Kjeldahl Nitrogen	EPA 351.2	1.9	mg/L	1	0.40	2/5/2020	NV00925

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

Page 4 of 7

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

Customer Sample ID: Jean

Collect Date/Time: 1/30/2020 11:20

WETLAB Sample ID: 20010825-003

Receive Date: 1/30/2020 12:27

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b><u>Trace Metals by ICP-OES</u></b>							
Barium	EPA 200.7	0.049	mg/L	1	0.020	2/12/2020	NV00925
Iron	EPA 200.7	1.3	mg/L	1	0.10	2/12/2020	NV00925
Manganese	EPA 200.7	0.031	mg/L	1	0.010	2/12/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	2/12/2020	NV00925
<b><u>Trace Metals by ICP-MS</u></b>							
Arsenic	EPA 200.8	0.029	mg/L	1	0.0050	2/5/2020	NV00925
<b><u>Sample Preparation</u></b>							
Trace Metals Digestion	EPA 200.2	Complete		1		2/3/2020	NV00925

Customer Sample ID: Compton-DUP

Collect Date/Time: 1/30/2020 11:00

WETLAB Sample ID: 20010825-004

Receive Date: 1/30/2020 12:27

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<b><u>General Chemistry</u></b>							
Ammonia, as Nitrogen	SM 4500 NH3 D	0.076	mg/L	1	0.050	2/3/2020	NV00925
Total Phosphorous as P	SM 4500-P E	0.88	mg/L	1	0.020	2/3/2020	NV00925
Total Suspended Solids (TSS)	SM 2540D	15	mg/L	1	10	1/30/2020	NV00925
Biochemical Oxygen Demand	SM 5210B	9.1	B mg/L	1	2.0	1/30/2020	NV00925
Total Nitrogen	Calc.	2.7	mg/L	1	1.4	2/5/2020	NV00925
<b><u>Microbiological Analyses</u></b>							
Total Coliform (MPN)	SM 9223B (Quantitray)	52.9	MPN/100ml	1	1.0	1/30/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	ND	MPN/100ml	1	1.0	1/30/2020	NV00925
<b><u>Anions by Ion Chromatography</u></b>							
Chloride	EPA 300.0	130	mg/L	5	5.0	1/30/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	D mg/L	5	0.75	1/30/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND	D mg/L	5	0.30	1/30/2020	NV00925
Sulfate	EPA 300.0	140	mg/L	5	7.5	1/30/2020	NV00925
<b><u>Flow Injection Analyses</u></b>							
Total Kjeldahl Nitrogen	EPA 351.2	2.6	mg/L	1	0.40	2/5/2020	NV00925
<b><u>Trace Metals by ICP-OES</u></b>							
Barium	EPA 200.7	0.044	mg/L	1	0.020	2/12/2020	NV00925
Iron	EPA 200.7	0.97	mg/L	1	0.10	2/12/2020	NV00925
Manganese	EPA 200.7	0.061	mg/L	1	0.010	2/12/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	2/12/2020	NV00925
<b><u>Trace Metals by ICP-MS</u></b>							
Arsenic	EPA 200.8	0.026	mg/L	1	0.0050	2/5/2020	NV00925
<b><u>Sample Preparation</u></b>							
Trace Metals Digestion	EPA 200.2	Complete		1		2/3/2020	NV00925

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

Page 5 of 7

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## Western Environmental Testing Laboratory QC Report

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20011161	Blank 1	Chloride	EPA 300.0	ND			mg/L
		Nitrate Nitrogen	EPA 300.0	ND			mg/L
		Nitrite Nitrogen	EPA 300.0	ND			mg/L
		Sulfate	EPA 300.0	ND			mg/L
QC20011186	Blank 1	Total Coliform (MPN)	SM 9223B (Qu	ND			MPN/100ml
		Escherichia Coli (MPN)	SM 9223B (Qu	ND			MPN/100ml
QC20011187	Blank 1	Total Suspended Solids (TSS)	SM 2540D	ND			mg/L
QC20020035	Blank 1	Total Phosphorous as P	SM 4500-P E	ND			mg/L
QC20020048	Blank 1	Ammonia, as Nitrogen	SM 4500 NH3	ND			mg/L
QC20020079	Blank 1	Biochemical Oxygen Demand	SM 5210B	ND			mg/L
QC20020141	Blank 1	Arsenic, Dissolved	EPA 200.8	ND			mg/L
QC20020144	Blank 1	Arsenic	EPA 200.8	ND			mg/L
QC20020166	Blank 1	Total Kjeldahl Nitrogen	EPA 351.2	ND			mg/L
QC20020449	Blank 1	Barium, 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
QC20020495	Blank 1	Barium	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

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20011161	LCS 1	Chloride	EPA 300.0	9.89	10.0	99	mg/L
		Nitrate Nitrogen	EPA 300.0	2.02	2.00	101	mg/L
		Nitrite Nitrogen	EPA 300.0	0.516	0.500	103	mg/L
		Sulfate	EPA 300.0	26.6	25.0	107	mg/L
QC20011187	LCS 1	Total Suspended Solids (TSS)	SM 2540D	200	200	100	mg/L
QC20011187	LCS 2	Total Suspended Solids (TSS)	SM 2540D	199	200	99	mg/L
QC20020035	LCS 1	Total Phosphorous as P	SM 4500-P E	0.264	0.250	106	mg/L
QC20020048	LCS 1	Ammonia, as Nitrogen	SM 4500 NH3 D	0.902	1.00	90	mg/L
QC20020079	LCS 1	Biochemical Oxygen Demand	SM 5210B	229	198	116	mg/L
QC20020141	LCS 1	Arsenic, Dissolved	EPA 200.8	0.0439	0.050	88	mg/L
QC20020144	LCS 1	Arsenic	EPA 200.8	0.0442	0.050	88	mg/L
QC20020166	LCS 1	Total Kjeldahl Nitrogen	EPA 351.2	0.994	1.00	99	mg/L
QC20020449	LCS 1	Barium, Dissolved	EPA 200.7	0.916	1.00	92	mg/L
		Iron, Dissolved	EPA 200.7	0.959	1.00	96	mg/L
		Manganese, Dissolved	EPA 200.7	0.920	1.00	92	mg/L
		Nickel, Dissolved	EPA 200.7	4.72	5.00	94	mg/L
QC20020495	LCS 1	Barium	EPA 200.7	0.959	1.00	96	mg/L
		Iron	EPA 200.7	0.967	1.00	97	mg/L
		Manganese	EPA 200.7	0.964	1.00	96	mg/L
		Nickel	EPA 200.7	4.86	5.00	97	mg/L

QCBatchID	QCType	Parameter	Method	Duplicate Sample	Sample Result	Duplicate Result	Units	RPD
QC20011187	Duplicate 1	Total Suspended Solids (TSS)	SM 2540D	20010768-001	ND	ND	mg/L	<1%
QC20011187	Duplicate 2	Total Suspended Solids (TSS)	SM 2540D	20010817-001	35.0	32.5	mg/L	7 %

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

Page 6 of 7

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EPA LAB ID: NV00932

QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
QC20011161	MS 1	Chloride	EPA 300.0	20010817-001	12.8	17.7	17.9	5	mg/L	99	101	1
		Nitrate Nitrogen	EPA 300.0	20010817-001	2.45	4.58	4.62	2	mg/L	107	109	<1
		Nitrite Nitrogen	EPA 300.0	20010817-001	0.060	0.582	0.590	0.5	mg/L	104	106	1
		Sulfate	EPA 300.0	20010817-001	53.1	62.4	62.7	10	mg/L	93	96	<1
QC20011161	MS 2	Chloride	EPA 300.0	20010773-001	72.5	94.9	95.5	5	mg/L	90	92	<1
		Nitrate Nitrogen	EPA 300.0	20010773-001	3.94	14.6	14.7	2	mg/L	107	108	<1
		Nitrite Nitrogen	EPA 300.0	20010773-001	ND	D 2.65	2.68	0.5	mg/L	106	107	1
		Sulfate	EPA 300.0	20010773-001	179	223	224	10	mg/L	88	90	<1
QC20020035	MS 1	Total Phosphorous as P	SM 4500-P E	20010825-001	0.728	M 1.08	0.891	0.25	mg/L	NC	NC	NC
QC20020048	MS 1	Ammonia, as Nitrogen	SM 4500 NH3	20010768-001	0.095	0.928	0.909	1	mg/L	83	81	2
QC20020048	MS 2	Ammonia, as Nitrogen	SM 4500 NH3	20010864-001	ND	M 0.789	0.731	1	mg/L	NC	NC	NC
QC20020141	MS 1	Arsenic, Dissolved	EPA 200.8	20010801-011	0.0057	0.0465	0.0481	0.05	mg/L	82	85	3
QC20020144	MS 1	Arsenic	EPA 200.8	20010825-003	0.0286	0.0747	0.0726	0.05	mg/L	92	88	3
QC20020166	MS 1	Total Kjeldahl Nitrogen	EPA 351.2	20010825-001	1.93	M 2.80	2.97	1	mg/L	NC	NC	NC
QC20020166	MS 2	Total Kjeldahl Nitrogen	EPA 351.2	20010832-007	0.422	M 1.05	1.14	1	mg/L	NC	NC	NC
QC20020449	MS 1	Barium, Dissolved	EPA 200.7	20010801-011	ND	0.952	0.973	1	mg/L	93	95	2
		Iron, Dissolved	EPA 200.7	20010801-011	0.300	1.29	1.32	1	mg/L	99	102	2
		Manganese, Dissolved	EPA 200.7	20010801-011	0.302	1.22	1.24	1	mg/L	92	94	2
		Nickel, Dissolved	EPA 200.7	20010801-011	ND	4.72	4.71	5	mg/L	94	94	<1
QC20020495	MS 1	Barium	EPA 200.7	20010825-003	0.049	0.969	0.949	1	mg/L	92	90	2
		Iron	EPA 200.7	20010825-003	1.31	2.35	2.32	1	mg/L	103	101	1
		Manganese	EPA 200.7	20010825-003	0.031	0.912	0.889	1	mg/L	88	86	3
		Nickel	EPA 200.7	20010825-003	ND	4.41	4.29	5	mg/L	88	86	3

**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

