20050424



Specializing in Soil, Hazardous Waste and Water Analysis

OrderID:

6/1/2020

Washoe County Water ResourcesCSD PO Box 11130 Reno, NV 89502

Attn: Ben Jesch

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 5/15/2020. 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

Loy Falor

Western Environmental Testing Laboratory Report Comments

Washoe County Water ResourcesCSD - 20050424

Specific Report Comments

None

В

Report Legend

В	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

- Due to the sample matrix dilution was required in order to properly detect and report the analyte. The reporting limit has been adjusted accordingly.
- -- 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.
- The TPH Diesel Concentration reported here likely includes some heavier TPH Oil hydrocarbons reported in the TPH Diesel range as per EPA 8015.
- The TPH Oil Concentration reported here likely includes some lighter TPH Diesel hydrocarbons reported in the TPH Oil range as per EPA 8015.
- The matrix spike/matrix spike duplicate (MS/MSD) values for the analysis of this parameter were outside acceptance M criteria due to probable matrix interference. The reported result should be considered an estimate.
- Ν 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.
- The result for the laboratory control sample (LCS) was outside WETLAB acceptance criteria and reanalysis was not QL possible. The reported data should be considered an estimate.
- 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
- 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.

Western Environmental Testing Laboratory Analytical Report

Washoe County Water ResourcesCSD

Date Printed: 6/1/2020 PO Box 11130 OrderID: 20050424

Reno, NV 89502 Attn: Ben Jesch

Phone: (775) 954-4612 **Fax:** NoFax

PO\Project: Swan Lake

Collect Date/Time: 5/15/2020 10:10 **Customer Sample ID:** Swan Lake - Jean

20050424-001 WETLAB Sample ID: **Receive Date:** 5/15/2020 11:00

Analyte	Method	Results		Units	DF	RL	Analyzed	LabID
General Chemistry								
Total Phosphorous as P	SM 4500-P E	0.73		mg/L	1	0.020	5/18/2020	NV00925
Total Nitrogen	Calc.	2.2		mg/L	1	0.61	5/19/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	920		mg/L	1	25	5/15/2020	NV00925
Microbiological Analyses								
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	ND	D	MPN/100ml	2	2.0	5/15/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	15.0		MPN/100ml	2	2.0	5/15/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	ND	D	MPN/100ml	2	2.0	5/15/2020	NV00925
Anions by Ion Chromatography								
Fluoride	EPA 300.0	ND		mg/L	1	0.30	5/15/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND		mg/L	1	0.15	5/15/2020	NV00925
Nitrite Nitrogen	EPA 300.0	ND		mg/L	1	0.060	5/15/2020	NV00925
Flow Injection Analyses								
Total Kjeldahl Nitrogen	EPA 351.2	2.2		mg/L	1	0.40	5/19/2020	NV00925
Trace Metals by ICP-OES								
Beryllium	EPA 200.7	ND		mg/L	1	0.0010	5/22/2020	NV00925
Boron	EPA 200.7	0.40		mg/L	1	0.10	5/22/2020	NV00925
Cadmium	EPA 200.7	ND		mg/L	1	0.0010	5/22/2020	NV00925
Chromium	EPA 200.7	ND		mg/L	1	0.0050	5/22/2020	NV00925
Copper	EPA 200.7	ND		mg/L	1	0.040	5/22/2020	NV00925
Iron	EPA 200.7	2.9	M	mg/L	1	0.10	5/22/2020	NV00925
Manganese	EPA 200.7	0.086		mg/L	1	0.010	5/22/2020	NV00925
Nickel	EPA 200.7	ND		mg/L	1	0.030	5/22/2020	NV00925
Zinc	EPA 200.7	ND		mg/L	1	0.020	5/22/2020	NV00925
Trace Metals by ICP-MS								
Arsenic	EPA 200.8	0.039		mg/L	1	0.0050	5/20/2020	NV00925
Lead	EPA 200.8	ND		mg/L	1	0.0025	5/20/2020	NV00925
Selenium	EPA 200.8	ND		mg/L	1	0.0050	5/20/2020	NV00925
Sample Preparation								
Trace Metals Digestion	EPA 200.2	W200520	-1B		1		5/20/2020	NV00925

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

Page 3 of 6

Customer Sample ID: Am-Flats - Spigot
WETLAB Sample ID: 20050424-002

Collect Date/Time: 5/15/2020 09:45

Receive Date: 5/15/2020 11:00

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
General Chemistry							
Total Phosphorous as P	SM 4500-P E	0.50	mg/L	1	0.020	5/18/2020	NV00925
Total Nitrogen	Calc.	2.4	mg/L	1	0.61	5/19/2020	NV00925
Total Dissolved Solids (TDS)	SM 2540C	920	mg/L	1	25	5/15/2020	NV00925
Microbiological Analyses							
Fecal Coliform (MPN)	IDEXX Quant/Colilert-18	ND	D MPN/100ml	2	2.0	5/15/2020	NV00925
Total Coliform (MPN)	SM 9223B (Quantitray)	64.6	MPN/100ml	2	2.0	5/15/2020	NV00925
Escherichia Coli (MPN)	SM 9223B (Quantitray)	2.0	MPN/100ml	2	2.0	5/15/2020	NV00925
Anions by Ion Chromatography							
Fluoride	EPA 300.0	0.47	mg/L	1	0.30	5/15/2020	NV00925
Nitrate Nitrogen	EPA 300.0	ND	mg/L	1	0.15	5/15/2020	NV00925
Nitrite Nitrogen	EPA 300.0	0.11	mg/L	1	0.060	5/15/2020	NV00925
Flow Injection Analyses							
Total Kjeldahl Nitrogen	EPA 351.2	2.2	mg/L	1	0.40	5/19/2020	NV00925
Trace Metals by ICP-OES							
Beryllium	EPA 200.7	ND	mg/L	1	0.0010	5/22/2020	NV00925
Boron	EPA 200.7	0.42	mg/L	1	0.10	5/22/2020	NV00925
Cadmium	EPA 200.7	ND	mg/L	1	0.0010	5/22/2020	NV00925
Chromium	EPA 200.7	ND	mg/L	1	0.0050	5/22/2020	NV00925
Copper	EPA 200.7	ND	mg/L	1	0.040	5/22/2020	NV00925
Iron	EPA 200.7	4.7	mg/L	1	0.10	5/22/2020	NV00925
Manganese	EPA 200.7	0.17	mg/L	1	0.010	5/22/2020	NV00925
Nickel	EPA 200.7	ND	mg/L	1	0.030	5/22/2020	NV00925
Zinc	EPA 200.7	0.46	mg/L	1	0.020	5/22/2020	NV00925
Trace Metals by ICP-MS							
Arsenic	EPA 200.8	0.040	mg/L	1	0.0050	5/20/2020	NV00925
Lead	EPA 200.8	0.0030	mg/L	1	0.0025	5/20/2020	NV00925
Selenium	EPA 200.8	ND	mg/L	1	0.0050	5/20/2020	NV00925
Sample Preparation							
Trace Metals Digestion	EPA 200.2	W200520-1B		1		5/20/2020	NV00925

Western Environmental Testing Laboratory QC Report

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20050637	Blank 1	Fecal Coliform (MPN)	IDEXX Quant/Col	ND			MPN/100ml
QC20050640	Blank 1	Total Coliform (MPN)	SM 9223B (Quant	ND			MPN/100ml
		Escherichia Coli (MPN)	SM 9223B (Quant	ND			MPN/100ml
QC20050648	Blank 1	Total Phosphorous as P	SM 4500-P E	ND			mg/L
QC20050656	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
QC20050724	Blank 1	Total Dissolved Solids (TDS)	SM 2540C	ND			mg/L
QC20050728	Blank 1	Total Kjeldahl Nitrogen	EPA 351.2	ND			mg/L
QC20050819	Blank 1	Arsenic	EPA 200.8	ND			mg/L
		Lead	EPA 200.8	ND			mg/L
		Selenium	EPA 200.8	ND			mg/L
QC20050925	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
QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20050648	LCS 1	Total Phosphorous as P	SM 4500-P E	0.271	0.250	108	mg/L
QC20050656	LCS 1	Fluoride	EPA 300.0	2.02	2.00	101	mg/L

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC20050648	LCS 1	Total Phosphorous as P	SM 4500-P E	0.271	0.250	108	mg/L
QC20050656	LCS 1	Fluoride	EPA 300.0	2.02	2.00	101	mg/L
		Nitrate Nitrogen	EPA 300.0	1.98	2.00	99	mg/L
		Nitrite Nitrogen	EPA 300.0	0.521	0.500	104	mg/L
QC20050724	LCS 1	Total Dissolved Solids (TDS)	SM 2540C	139	150	93	mg/L
QC20050724	LCS 2	Total Dissolved Solids (TDS)	SM 2540C	141	150	94	mg/L
QC20050728	LCS 1	Total Kjeldahl Nitrogen	EPA 351.2	1.02	1.00	102	mg/L
QC20050819	LCS 1	Arsenic	EPA 200.8	0.0464	0.050	93	mg/L
		Lead	EPA 200.8	0.0099	0.010	99	mg/L
		Selenium	EPA 200.8	0.0474	0.050	95	mg/L
QC20050925	LCS 1	Beryllium	EPA 200.7	0.942	1.00	94	mg/L
		Boron	EPA 200.7	0.913	1.00	91	mg/L
		Cadmium	EPA 200.7	0.955	1.00	96	mg/L
		Chromium	EPA 200.7	0.945	1.00	94	mg/L
		Copper	EPA 200.7	4.60	5.00	92	mg/L
		Iron	EPA 200.7	0.913	1.00	91	mg/L
		Manganese	EPA 200.7	0.921	1.00	92	mg/L
		Nickel	EPA 200.7	4.57	5.00	91	mg/L
		Zinc	EPA 200.7	0.949	1.00	95	mg/L

QCBatchID	QCType	Parameter	Method	Duplicate Sample	Sample Result	Duplicate Result	Units	RPD
QC20050724	Duplicate 1	Total Dissolved Solids (TDS)	SM 2540C	20050415-002	725	705	mg/L	3 %
QC20050724	Duplicate 2	Total Dissolved Solids (TDS)	SM 2540C	20050417-001	838	826	mg/L	1 %

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

Page 5 of 6

Washoe County Water ResourcesCSD - 20050424

QCBatchID QCType	Parameter	Method	Spike Sample	Sample Result		MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %	
QC20050648 MS 1	Total Phosphorous as P	SM 4500-P E	20050377-002	0.112		0.351	0.365	0.25	mg/L	96	101	4	
QC20050648 MS 2	Total Phosphorous as P	SM 4500-P E	20050377-003	ND		0.282	0.289	0.25	mg/L	110	113	2	
QC20050656 MS 1	Fluoride	EPA 300.0	20050424-001	ND		2.55	2.59	2	mg/L	115	117	2	
	Nitrate Nitrogen	EPA 300.0	20050424-001	ND		2.19	2.20	2	mg/L	108	109	<1	
	Nitrite Nitrogen	EPA 300.0	20050424-001	ND		0.537	0.551	0.5	mg/L	107	110	3	
QC20050728 MS 1	Total Kjeldahl Nitrogen	EPA 351.2	20050415-001	ND		0.952	0.910	1	mg/L	95	91	4	
QC20050728 MS 2	Total Kjeldahl Nitrogen	EPA 351.2	20050426-002	1522		1997	2010	1	mg/L	95	98	<1	
QC20050819 MS 1	Arsenic	EPA 200.8	20050424-001	0.0386		0.0847	0.0818	0.05	mg/L	92	86	4	
	Lead	EPA 200.8	20050424-001	ND		0.0097	0.0099	0.01	mg/L	84	85	2	
	Selenium	EPA 200.8	20050424-001	ND		0.0456	0.0444	0.05	mg/L	85	82	3	
QC20050925 MS 1	Beryllium	EPA 200.7	20050424-001	ND			0.979	0.969	1	mg/L	98	97	1
	Boron	EPA 200.7	20050424-001	0.401		1.37	1.36	1	mg/L	97	96	<1	
	Cadmium	EPA 200.7	20050424-001	ND		0.919	0.900	1	mg/L	92	90	2	
	Chromium	EPA 200.7	20050424-001	ND		0.920	0.911	1	mg/L	92	91	1	
	Copper	EPA 200.7	20050424-001	ND		4.89	4.79	5	mg/L	97	95	2	
	Iron	EPA 200.7	20050424-001	2.94	M	4.78	4.92	1	mg/L	NC	NC	NC	
	Manganese	EPA 200.7	20050424-001	0.086		0.991	0.980	1	mg/L	90	89	1	
	Nickel	EPA 200.7	20050424-001	ND		4.51	4.38	5	mg/L	90	87	3	
	Zinc	EPA 200.7	20050424-001	ND		0.972	0.944	1	mg/L	96	93	3	



	Address 1001 E. 9th Street City, State & Zip Reno, NV 89512														WETLAB Order ID. 20050424 Sparks Control # Elko Control # LV Control # Report Due Date Page of Turnaround Time Requirements 5 Day' (25%) 72 Hour' (50%) 48 Hour' (100%) 24 Hour' (200%)									
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