

12/31/2019

City of Yerington
215 Trowbridge Rd
Yerington, NV 89447
Attn: Jay Flakus

OrderID: 19120636

Dear: Jay Flakus

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 12/19/2019. 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,



Andy Smith
QA Manager

SPARKS

475 E. Greg Street, Suite 119
Sparks, Nevada 89431
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fax (775) 355-0817
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LAS VEGAS

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tel (702) 475-8899
fax (702) 622-2868
EPA LAB ID: NV00932

Western Environmental Testing Laboratory

Report Comments

City of Yerington - 19120636

Specific Report Comments

None

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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Analytical Report

City of Yerington
215 Trowbridge Rd
Yerington, NV 89447

Date Printed: 12/31/2019
OrderID: 19120636

Attn: Jay Flakus

Phone: (775) 302-1155 Fax: NoFax

PO\Project: City of Yerington / LY-0255-C / NV-0255

Customer Sample ID: TP07 (Treatment Plt Eff)

Collect Date/Time: 12/19/2019 08:19

WETLAB Sample ID: 19120636-001

Receive Date: 12/19/2019 13:35

Analyte	Method	Results	Units	DF	RL	Analyzed	LabID
<u>General Chemistry</u>							
True Color	SM 2120B	0.0	Color Units	1		12/20/2019	NV00925
Odor	SM 2150B	35	Ton	1		12/19/2019	NV00925
pH	SM 4500-H+ B	7.88	HT pH Units	1		12/19/2019	NV00925
Temperature at pH	SM 2550B	21	°C	1		12/19/2019	NV00925
Surfactant (MBAS)	SM 5540C	ND	mg/L	1	0.10	12/19/2019	NV00925
Total Dissolved Solids (TDS)	SM 2540C	270	mg/L	1	25	12/20/2019	NV00925
<u>Anions by Ion Chromatography</u>							
Chloride	EPA 300.0	16	mg/L	1	1.0	12/20/2019	NV00925
Fluoride	EPA 300.0	ND	mg/L	1	0.30	12/20/2019	NV00925
Sulfate	EPA 300.0	66	mg/L	1	1.5	12/20/2019	NV00925
<u>Trace Metals by ICP-OES</u>							
Aluminum	EPA 200.7	ND	mg/L	1	0.050	12/23/2019	NV00925
Copper	EPA 200.7	ND	mg/L	1	0.040	12/23/2019	NV00925
Iron	EPA 200.7	ND	mg/L	1	0.10	12/23/2019	NV00925
Magnesium	EPA 200.7	11	mg/L	1	0.50	12/23/2019	NV00925
Manganese	EPA 200.7	0.032	mg/L	1	0.010	12/23/2019	NV00925
Silver	EPA 200.7	ND	mg/L	1	0.0050	12/23/2019	NV00925
Sodium	EPA 200.7	26	mg/L	1	1.5	12/23/2019	NV00925
Zinc	EPA 200.7	ND	mg/L	1	0.020	12/23/2019	NV00925

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

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Western Environmental Testing Laboratory

QC Report

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC19120931	Blank 1	Surfactant (MBAS)	SM 5540C	ND			mg/L
QC19121033	Blank 1	Chloride	EPA 300.0	ND			mg/L
		Fluoride	EPA 300.0	ND			mg/L
		Sulfate	EPA 300.0	ND			mg/L
QC19121038	Blank 1	Aluminum	EPA 200.7	ND			mg/L
		Copper	EPA 200.7	ND			mg/L
		Iron	EPA 200.7	ND			mg/L
		Magnesium	EPA 200.7	ND			mg/L
		Manganese	EPA 200.7	ND			mg/L
		Silver	EPA 200.7	ND			mg/L
		Sodium	EPA 200.7	ND			mg/L
		Zinc	EPA 200.7	ND			mg/L
QC19121040	Blank 1	Total Dissolved Solids (TDS)	SM 2540C	ND			mg/L

QCBatchID	QCType	Parameter	Method	Result	Actual	% Rec	Units
QC19120931	LCS 1	Surfactant (MBAS)	SM 5540C	0.534	0.500	107	mg/L
QC19120954	LCS 1	pH	SM 4500-H+ B	7.02	7.00	100	pH Units
QC19120954	LCS 2	pH	SM 4500-H+ B	7.02	7.00	100	pH Units
QC19121033	LCS 1	Chloride	EPA 300.0	10.4	10.0	104	mg/L
		Fluoride	EPA 300.0	1.89	2.00	95	mg/L
		Sulfate	EPA 300.0	25.7	25.0	103	mg/L
QC19121038	LCS 1	Aluminum	EPA 200.7	0.891	1.00	89	mg/L
		Copper	EPA 200.7	4.53	5.00	91	mg/L
		Iron	EPA 200.7	0.884	1.00	88	mg/L
		Magnesium	EPA 200.7	8.79	10.0	88	mg/L
		Manganese	EPA 200.7	0.888	1.00	89	mg/L
		Silver	EPA 200.7	0.080	0.090	89	mg/L
		Sodium	EPA 200.7	8.88	10.0	89	mg/L
		Zinc	EPA 200.7	0.883	1.00	88	mg/L
QC19121040	LCS 1	Total Dissolved Solids (TDS)	SM 2540C	154	150	103	mg/L
QC19121040	LCS 2	Total Dissolved Solids (TDS)	SM 2540C	142	150	95	mg/L

QCBatchID	QCType	Parameter	Method	Duplicate Sample	Sample Result	Duplicate Result	Units	RPD
QC19120954	Duplicate 1	pH	SM 4500-H+ B	19120593-001	7.81	3.08	HT	pH Units 1 %
QC19120954	Duplicate 2	pH	SM 4500-H+ B	19120617-008	7.28	7.36	HT	pH Units 1 %
QC19120954	Duplicate 3	pH	SM 4500-H+ B	19120652-001	7.03	7.05	HT	pH Units <1%
QC19120954	Duplicate 4	pH	SM 4500-H+ B	19120655-002	7.25	6.99	HT,Q	pH Units 4 %
QC19121040	Duplicate 1	Total Dissolved Solids (TDS)	SM 2540C	19120658-002	596	616		mg/L 3 %
QC19121040	Duplicate 2	Total Dissolved Solids (TDS)	SM 2540C	19120658-003	638	646		mg/L 1 %

QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
QC19121033	MS 1	Chloride	EPA 300.0	19120663-001	4.08	9.22	9.54	5	mg/L	103	109	3
		Fluoride	EPA 300.0	19120663-001	ND	2.27	2.39	2	mg/L	103	109	5
		Sulfate	EPA 300.0	19120663-001	23.4	33.3	33.9	10	mg/L	98	105	2
QC19121038	MS 1	Aluminum	EPA 200.7	19120511-001	ND	0.841	0.820	1	mg/L	84	82	2

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

Page 4 of 5

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QCBatchID	QCType	Parameter	Method	Spike Sample	Sample Result	MS Result	MSD Result	Spike Value	Units	MS %Rec	MSD %Rec	RPD %
		Copper	EPA 200.7	19120511-001	ND	4.42	4.27	5	mg/L	88	85	4
		Iron	EPA 200.7	19120511-001	ND	0.833	0.810	1	mg/L	82	80	3
		Magnesium	EPA 200.7	19120511-001	ND	8.28	8.09	10	mg/L	83	81	2
		Manganese	EPA 200.7	19120511-001	ND	0.853	0.820	1	mg/L	85	82	4
		Silver	EPA 200.7	19120511-001	ND	0.078	0.075	0.09	mg/L	87	83	4
		Sodium	EPA 200.7	19120511-001	145	SC 148	145	10	mg/L	NC	NC	NC
		Zinc	EPA 200.7	19120511-001	ND	0.849	0.816	1	mg/L	85	81	4

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IOCS PH II - TPO7



WETLAB

WESTERN ENVIRONMENTAL TESTING LABORATORY

Specializing in Soil, Hazardous Waste and Water Analysis.

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City of Yerington NV - SDW
2019 Compliance Monitoring



19035

WETLAB Order ID. 19120636

Sparks Control # _____

Elko Control # _____

LV Control # _____

Report

Due Date

Page 1 of 1

Client City of Yerington Nevada Public Works

Address 215 Trowbridge Road

City, State & Zip Yerington, NV 89447

Contact Jay Flakus

Phone 775-302-1155 Collector's Name Dennis Becker

Fax 775-463-2284 PWS/Project Name City of Yerington

P.O. Number OPEN PWS/Project Number LY-0255-C

Email jayf@yerington.net

Billing Address (if different than Client Address)

Company _____
Address _____
City, State & Zip _____
Contact _____
Phone _____ Fax _____
Email jayf@yerington.net

Turnaround Time Requirements

Standard
5 Day* (25%) 72 Hour* (50%)
48 Hour* (100%) 24 Hour* (200%)
*Surcharges Will Apply

Samples Collected From Which State? Report Results Via

NV CA
Other

Compliance Monitoring? PDF EDD
Yes No Other _____

Report to Regulatory Agency? Standard QC Required?
Yes No Yes No

Analyses Requested

S	A	M	P	L	E	T	T	P	E	S	NO. OF CONTAINERS	Analyses Requested	Spl. No.
											IOCS PH II		
											FLUORIDE		
											Secondary Ions		

SAMPLE ID/LOCATION	DATE	TIME	PRES TYPE	**	Spl. No.
TPO7 (TREATMENT PCT EFF)	12/19/19	08:19 AM	DW	4	X X X

Instructions/Comments/Special Requirements:

Sample Matrix Key** DW = Drinking Water WW = Wastewater SW = Surface Water MW = Monitoring Well SD = Solid/Sludge SO = Soil HW = Hazardous Waste OTHER: _____

*SAMPLE PRESERVATIVES: 1=Unpreserved 2=H2SO4 3=NaOH 4=HCl 5=HNO3 6=Na2S2O3 7=ZnOAc+NaOH 8=HCl/VOA Vial

Temp	Custody Seal	# of Containers	DATE	TIME	Samples Relinquished By	Samples Received By
7.4°C	Y N None	4	12/19/19	1335	[Signature]	[Signature]
°C	Y N None					
°C	Y N None					
°C	Y N None					

WETLAB'S Standard Terms and Conditions apply unless written agreements specify otherwise. Payment terms are Net 30.

Client/Collector attests to the validity and authenticity of this (these) sample(s) and, is (are) aware that tampering with or intentionally mislabeling the sample(s) location, date or time of collection may be considered fraud and subject to legal action (NAC445.0636). JMF initial
To the maximum extent permitted by law, the Client agrees to limit the liability of WETLAB for the Client's damages to the total compensation received, unless other agreements are made in writing. This limitation shall apply regardless of the cause of action or legal theory pled or asserted. JMF initial
WETLAB will dispose of samples 90 days from sample receipt. Client may request a longer sample storage time for an additional fee. 301.2E
Please contact your Project Manager for details. JMF initial