SURFACE WATER MONITORING WORK PLAN

Ormat Nevada, Inc.
Gerlach Geothermal Exploration Project
Washoe County, Nevada

Prepared for:

Ormat Nevada, Inc
6140 Plumas Street
Reno, Nevada 89519

Prepared by:

Broadbent & Associates, Inc.
5450 Louie Lane, Suite 101
Reno, Nevada 89511
(775) 322-7969
www.broadbentinc.com

April 2022

BROADBENT
5450 Louie Lane. Suite 101. Reno, NV 89511
[T] 775-322-7969 [F] 775-322-7956
broadbentinc.com

Creating Solutions. Building Trust.

April 14, 2022 Project No 22-02-134

Kim Carter
Permitting Manager
Ormat Nevada, Inc
6140 Plumas Street
Reno, Nevada 89519

Re: **Surface Water Monitoring Work Plan**
Gerlach Geothermal Exploration Project, Washoe County, Nevada

Dear Ms. Carter:

Broadbent & Associates, Inc. (Broadbent) is pleased to submit the enclosed *Surface Water Monitoring Work Plan* to support monitoring and sampling of select surface water features located in the vicinity of the Gerlach Geothermal Exploration Project (Gerlach) in Washoe County, Nevada. If you have questions regarding this document, please do not hesitate to contact us at
(775) 322-7969.

Sincerely,

BROADBENT & ASSOCIATES, INC.

Morgan Sawyer
Senior Staff Geologist

Tom Sanchez
Project Scientist

cc: Tai Subia, Bureau of Land Management
Mark Hall, Bureau of Land Management

TABLE OF CONTENTS

DRAWINGS

TABLES

APPENDICES

SURFACE WATER MONITORING WORK PLAN

Gerlach Geothermal Exploration Project
Washoe County, Nevada

1.0 INTRODUCTION

Ormat Nevada, Inc. (Ormat) is planning to conduct geothermal exploration activities at the Gerlach Geothermal Exploration Project (Project) near the town of Gerlach in central Washoe County of Northwestern Nevada. The Project area of interest (AOI) is located on federal lands managed by the United States Department of the Interior (DOI), Bureau of Land Management (BLM), private leased lands, and public unleased lands (geothermal leases NVN-55718, NVN-75228, NVN-98640 NVN-98641, and NVN-100029).

The Project location is on either side of State Route 34 just north of Gerlach city center and the Project AOI consists of 2,724 acres of land. The Project is anticipated to consist of wells and well pads for geothermal exploration and associated access road construction and improvements. A Project Location Map is included as Drawing 1.

1.1 Objective

As a part of the National Environmental Policy Act (NEPA) process, the BLM requires a hydrologic baseline study to support an environmental assessment for the Project. This *Surface Water Monitoring Work Plan* (Work Plan) describes monitoring and sampling activities of surface water features within the Project boundary and a one-mile radius of the Project area as part of the hydrologic baseline.

2.0 BACKGROUND

The Project is located within the Basin and Range Province in the Great Basin Region of Northwestern Nevada. The Project AOI lies within the Black Rock Desert between the Granite Mountains (north of the Project AOI) and the Selenite Range (south of the Project AOI). More specifically, the southern portion of the Project AOI is in the San Emidio and Smoke Creek Deserts and the northern portion is in the Black Rock Desert. These three desert basins define the topographic boundaries within the one-mile buffer of the Project. Surface water within the three desert basins flow toward the respective valley playa.

Quarterly monitoring of 13 surface water locations (Springs 1-12, Matt's Spring) has been ongoing since Third Quarter 2019. Spring locations and details were gathered during completion of the initial Hydrologic Evaluation (Stantec, 2022a) utilizing the National Water Information System, the National Hydrography Dataset (NHD), the Great Basin Groundwater Geochemical Database, and field observations. Within the study area established during the initial Hydrologic Evaluation there are approximately 50 mapped springs (Appendix A, Figure 5 from *Hydrologic Evaluation*). Of the mapped springs, 16 springs within a one-mile buffer of the Project AOI were initially selected to be monitored; however, field surveys resulted in three of the 16 springs being removed due to private property access issues. Spring locations selected for quarterly monitoring are presented in Drawing 2 and additional details are provided in Table 1. Historical quarterly analytical results since First Quarter 2020 are provided as Appendix A (Stantec, 2022b,c).

3.0 MONITORING PLAN

3.1 Monitoring Locations

Springs 1, 2, and 3 are hot spring fed pools located in close proximity to one another on private land, and make up a portion of the Great Boiling Spring Complex. Ormat has received permission from the property owner to access and monitor the springs. It is important to note that continued access to these springs is subject to ongoing approval from the landowner.

Spring 4 is a cold-water spring located at the toe slope of the Granite Range approximately 1.5 miles north of Springs 1-3. Spring 5 is a cold-water spring located in a drainage approximately one mile northwest of Spring 4 on the eastern front of the Granite range.

Springs 6-12 are cold-water springs which occur within approximately 0.5 miles of one another in a series of steep canyons north of the project AOI. They exhibit seasonal variations in flow and are intermittently dry. Water quality samples have historically not been collected from Springs 9 and 11 during monitoring events due to locations sharing similar hydrologic conditions as surrounding features (Stantec, 2022d).

Matt's Spring is located west of the Project AOI and on the eastern side of Smoke Creek Desert. Surface water originates from a damaged artesian wellhead, flowing outward and creating a large, flooded area approximately 20 feet wide by 75 feet long.

3.2 Schedule

Surface water baseline monitoring activities, including collection of water quality samples, water quality field parameters, flow measurements, and collection of photographs is proposed to be completed quarterly. Sampling may be re-evaluated in future years based on the status of exploration. If the Project continues beyond exploration and into development, an evaluation of the frequency necessary for long-term monitoring will be conducted. Proposed changes in monitoring frequency will be proposed to the BLM before implementation.

3.3 Changes in Monitoring Plan

The monitoring schedule and constituents analyzed may change based on the results obtained from baseline data or changes in Project activities. We understand that changes require approval from the BLM. If changes in scope of work are necessary, Ormat or a representative will request approval from the BLM.

4.0 DATA COLLECTION

4.1 Water Quality Field Measurements

Water quality field measurements will be collected quarterly from monitoring locations when sufficient water is present. Water quality parameters measured in the field will include temperature, pH, dissolved oxygen, oxidation-reduction potential (ORP), electrical conductivity, total dissolved solids (TDS), and salinity. Parameters will be measured using a Horiba U-52, or similar. The water quality instrument will

be calibrated prior to use, and a drift check will be conducted at the end of the day. Equipment calibration records including the date, calibration standard, and verification will be documented on a calibration log or Daily Report.

4.2 Flow Measurements

Surface water flow measurements will be collected quarterly when surface water flow is observed. Flow will be measured using either a Baski Cutthroat Flume (or similar) or a polyvinyl chloride (PVC) pipe with flow channelized into a graduated measurement container. Flow rate will be determined by calculating the average time required to fill the graduated measurement device to a graduated mark from at least three separate measurements.

4.3 Photograph Documentation

A photograph of each monitoring site will be collected quarterly. Photographs will be accompanied by appropriate metadata including the feature name, date, time, GPS coordinates, and accuracy of coordinates. Field personnel will take photographs in approximately the same location during each visit. Field personnel will place a consistent landmark in the background of photographs when practicable for scale and reference.

4.4 Surface Water Quality Sample Collection

On a quarterly basis, surface water quality samples will be collected at monitoring locations with sufficient water present. Samples will be collected directly into sample containers, from the discharge end of a decontaminated PVC pipe, using a decontaminated dipper cup, or by using a peristaltic pump with disposable tubing. Samples will be collected in laboratory-prepared containers with appropriate preservative, properly labeled (site name, sample ID, sampler initials, date, and time of collection), and stored chilled (refrigerator or ice chest with ice) until delivery to the analytical laboratory, under chain of custody (COC) procedures.

Reusable sampling equipment will be decontaminated prior to sampling using a three-step decontamination process: 1) tap water with Liquinox, 2) first rinse with distilled water, and 3) second rinse with distilled water.

4.5 Field Records

Field personnel will collect field notes on Daily Reports and Surface Water Monitoring Logs, which will then be reviewed by the Field Manager or Project Manager. Sample collection date and times will be documented on both Surface Water Monitoring Logs and COC forms. Photographs will include relevant metadata (as described in section 4.3).

4.6 Chain-of-Custody Procedure

The sampler will be personally responsible for care and custody of the samples collected until they are properly transferred to another party. To document custody and transfer of samples, a COC record will be prepared. The COC will provide identification of the samples corresponding to sample labels and specified analyses to be performed by the laboratory. The original COC will accompany the shipment,

and a copy will be stored in the project file. When samples are transferred, the individuals relinquishing and receiving them will sign, date, and note the time of transfer on the record.

5.0 LABORATORY ANALYSIS

Laboratory analyses will be conducted based on the list of analytes shown in Table 2, adopted from the BLM Winnemucca *Initial Analyte List for Surface Water Monitoring*. Silver State Analytical Laboratory (SSA) of Sparks, Nevada will analyze surface water samples for the Project. Analyses of stable isotopes (deuterium/protium and oxygen isotopes) will be conducted by Isotech Laboratories, Inc. Analyses of radiochemicals (Gross Alpha/Beta) will be conducted by Pace Analytical. Standard quality control (QC) requirements will be followed.

6.0 REVIEW AND REPORTING

After each quarter, a letter report will be prepared describing monitoring activities, analytical results, and photographs for submission to the BLM. Quarterly letter reports will be submitted to BLM during the quarter following monitoring, within 60 days of receipt of laboratory analytical results. An annual report that includes data from the calendar year and a discussion of results will also be prepared and submitted by May 1.

7.0 REFERENCES

Stantec, Inc. 2022a. Hydrologic Evaluation Report, Revision 2, Humboldt County, Nevada. Prepared for Ormat Nevada, Inc.

Stantec, Inc. 2022b. Revised Surface Water Sampling Results – 2020 Fourth Quarter, Washoe County, Nevada. Prepared for Ormat Nevada, Inc.

Stantec, Inc. 2022c. Surface Water Sampling Results – 2021 Fourth Quarter, Washoe County, Nevada. Prepared for Ormat Nevada, Inc.

Stantec, Inc. 2022d. 2021 Annual Hydrologic Summary Report Gerlach Geothermal Exploration Project Humboldt County, Nevada. Prepared for Ormat Nevada, Inc.

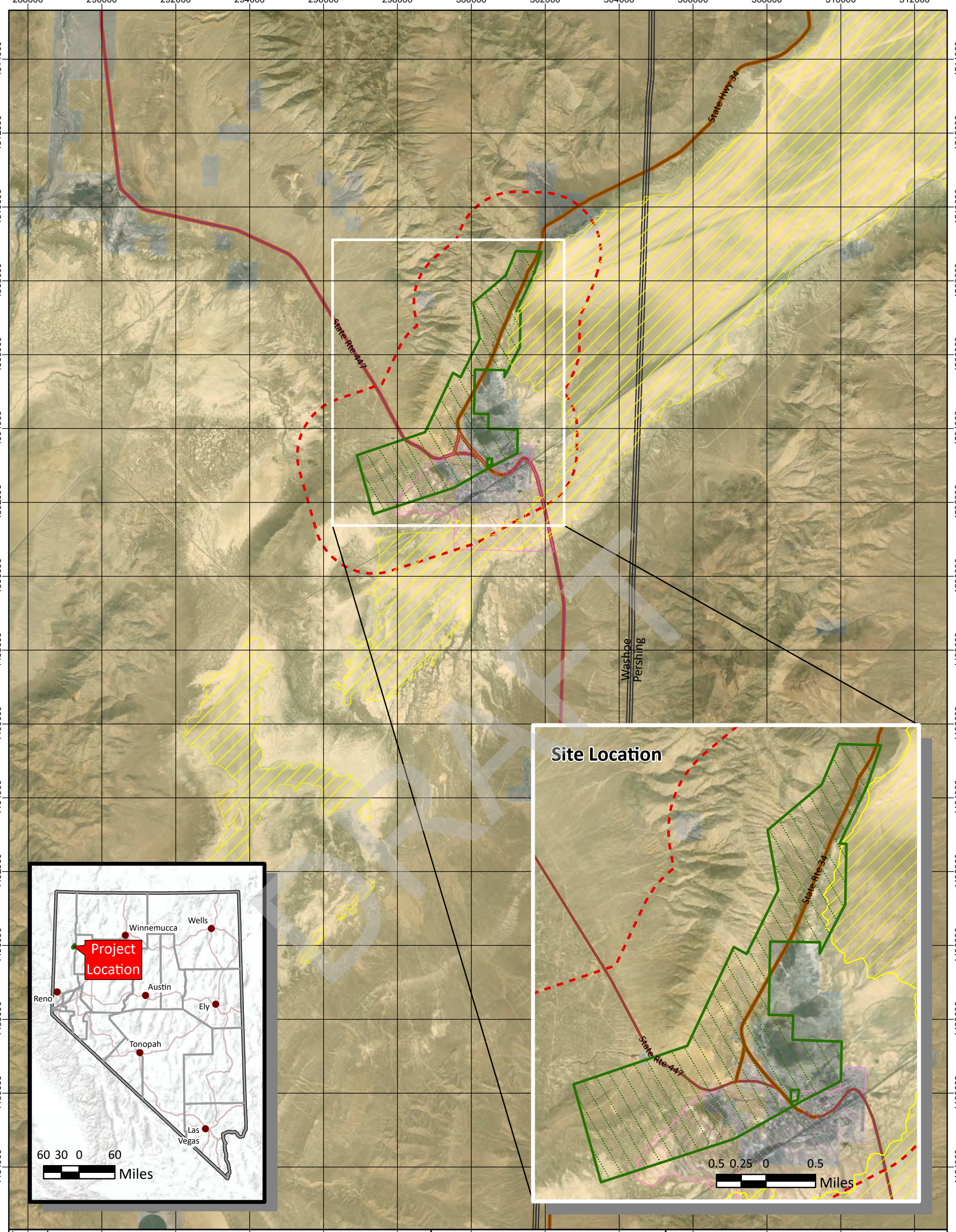
8.0 LIMITATIONS

Broadbent will do its best to alert the client of matters which, in the opinion of Broadbent, require immediate attention to protect public health and safety. Broadbent will make every effort to advise the client of matters which should be reported to proper governmental agencies. However, the client is solely responsible for reporting such matters, and Broadbent shall not be held liable in the event the proper agency is not notified. Our services will be performed in accordance with generally accepted practice at the time work commences. Results and recommendations will be based on review of available documentation and written or verbal correspondence with appropriate regulatory agencies, laboratory results, observations of field personnel, and the points investigated. No warranty expressed or implied is made.

LIST OF COMMONLY USED ACRONYMS/ABBREVIATIONS:

°C	degrees Celsius
µg/L	micrograms per liter
amsl	above mean sea level
AOI	Area of Interest
BLM	Bureau of Land Management
COC	chain of custody
DOI	US Department of the Interior
mg/L	milligrams per liter
mS/cm	millisiemens per centimeter
NBMG	Great Basin Groundwater Geochemical Database
NDEP	Nevada Division of Environmental Protection
NHD	National Hydrography Dataset
NWIS	National Water Information System
Ormat	Ormat Nevada, Inc.
ORP	Oxidation-Reduction Potential
Project	Gerlach Geothermal Exploration Project
PVC	Polyvinyl Chloride
QC	Quality Control
SSA	Silver State Analytical Laboratory
TDS	total dissolved solids
U.S.	United States
USGS	U.S. Geological Survey
Work Plan	Surface Water Monitoring Work Plan

DRAWINGS



Legend:

- Gerlach Area of Interest
- Gerlach Municipality
- 1-mile Radius of AOI
- Playa
- State Route 34
- State Route 447
- County
- Land Ownership
- BLM
- PVT

N

Scale: 1:100,000

1 0.5 0 1 Miles

Drawing 1

Site Location and Overview

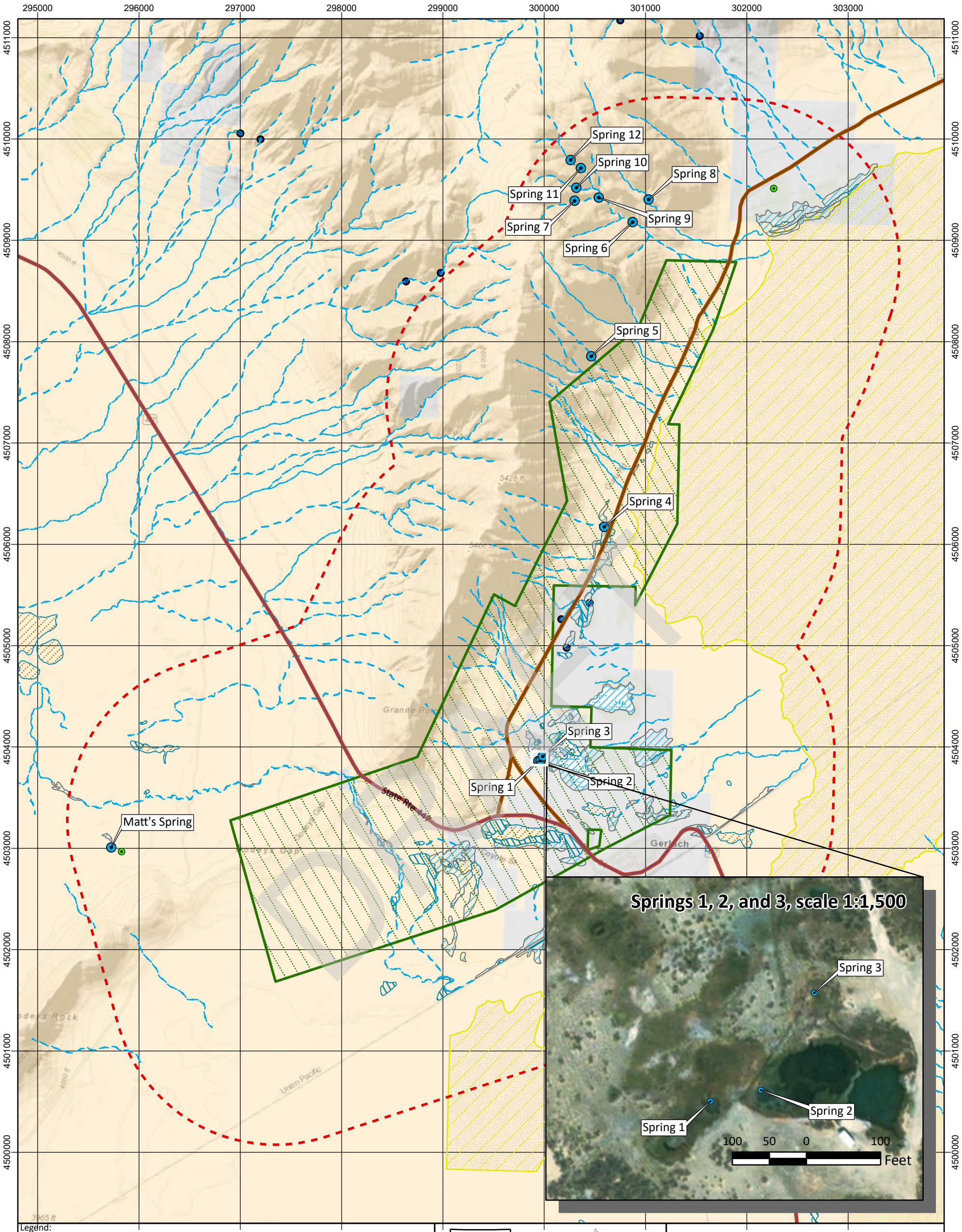
ORMAT NEVADA INC.
Gerlach Workplan

Designed	
Drawn	JCM
Approved	

BROADBENT
5450 Louie Lane, Ste 101
Reno, NV, 89511
(775) 322-7969 (P) * (775) 322-7956 (F)

Job # 22-02-134 Date: 4/5/2022

Notes:
1. Imagery Source: Esri World Imagery (Earthstar Geographics, Sources: Esri, USGS, NOAA, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA).
2. Datum: WGS 1984 UTM Zone 11N.
3. AOI and other proposed features provided by Ormat.

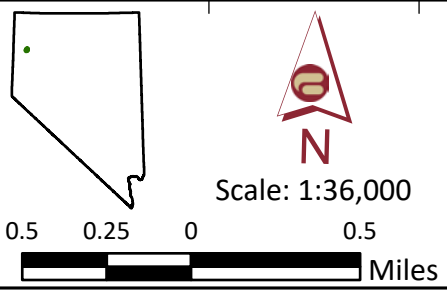


Legend:

- Monitoring Location
- Gerlach Area of Interest
- 1-mile Radius of AOI
- County
- Freshwater Pond
- Freshwater Emergent Wetland
- Freshwater Forested/ Shrub Wetland
- Intermittent Stream
- State Route 447
- State Route 34
- NHD Spring / Seep
- NHD Well
- NHD Playa
- NHD Lake or Pond
- NHD Swamp or Marsh

Land Ownership

- BLM
- Private



Drawing 2

Site Location Map and Monitoring Locations

ORMAT NEVADA INC.
Gerlach Workplan

Designed	
Drawn	JCM
Approved	

BROADBENT
5450 Louie Lane, Ste 101
Reno, NV, 89511
(775) 322-7969 (P) * (775) 322-7956 (F)

Job # 22-02-134 Date: 4/5/2022

Notes:
1. Imagery Source: Esri World Topographic Map, Esri World Imagery for inset (Maxar, Microsoft, Bureau of Land Management, Esri, HERE, Garmin, GeoTechnologies, Inc., USGS, METI/NASA, EPA, USDA, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS, Sources: Esri, USGS, NOAA).
2. Datum: WGS 1984 UTM Zone 11N.
3. AOI and other proposed features provided by Ormat.
4. Water data from NFS National Wetlands Inventory (NWI) and National Hydrography Dataset (NHD).

TABLES

Table 1
Surface Water Monitoring Locations
Gerlach Geothermal Exploration Project
Washoe County, Nevada

	Coordinates (Decimal Degrees)		
Site Name	**Latitude**	**Longitude**	**Comments**
Spring 1*	40.661383°	-119.366569°	Hot Spring
Spring 2*	40.661430°	-119.366324°	Hot Spring
Spring 3*	40.661794°	-119.366078°	Hot Spring
Spring 4	40.682336°	-119.359629°	
Spring 5	40.697458°	-119.361674°	
Spring 6	40.709475°	-119.357261°	
Spring 7	40.711234°	-119.364108°	
Spring 8	40.711523°	-119.355474°	
Spring 9	40.711570°	-119.361295°	
Spring 10	40.712392°	-119.363951°	
Spring 11	40.714149°	-119.363483°	
Spring 12	40.714840°	-119.364703°	
Matt's Spring	40.652669°	-119.416135°	Sourced from a leaking well

* Spring located on private property, monitoring is subject to landowner permission
Datum = WGS84

Table 2
BLM Winnemucca Analyte List for Surface Water Monitoring
Gerlach Geothermal Exploration Project
Washoe County, Nevada

Analyte	Test Type	Units	Method
Temperature	Field	°C	N/A
pH	Field	standard units	N/A
Electrical Conductivity	Field	mS/cm	N/A
Total dissolved solids (TDS)	Field / Lab	mg/L	N/A
Oxidation Reduction Potential	Field	mV	N/A
Dissolved oxygen	Field	mg/L, %sat	N/A
Salinity	Field	ppt	N/A
Deuterium/protium ratio	Lab	per mil	CF-IRMS
Oxygen-16/18	Lab	per mil	CF-IRMS
Ammonia, as Nitrogen	Lab	mg/L	Timberline Ammonia-001
Alkalinity, Total (as $CaCO_3$)	Lab	mg $CaCO_3$/L	SM 2320 B
Bicarbonate (HCO_3 as $CaCO_3$)	Lab	mg/L	SM 2320 B
Carbonate (CO_3)	Lab	mg $CaCO_3$/L	SM 2320B
Hydroxide (OH)	Lab	mg $CaCO_3$/L	SM 2320B
Antimony, Total	Lab	mg/L	EPA 200.8
Arsenic, Total	Lab	mg/L	EPA 200.8
Boron, Total	Lab	mg/L	EPA 200.7
Calcium, Total	Lab	mg/L	EPA 200.7
Chloride	Lab	mg/L	EPA 300.0
Fluoride	Lab	mg/L	EPA 300.0
Iron, Total	Lab	mg/L	EPA 200.7
Lead, Total	Lab	mg/L	EPA 200.8
Lithium, Total	Lab	mg/L	EPA 200.7
Magnesium, Total	Lab	mg/L	EPA 200.7
Manganese, Total	Lab	mg/L	EPA 200.7
Mercury, Total	Lab	mg/L	EPA 245.1
Nitrate Nitrogen	Lab	mg/L	EPA 300.0
Nitrite Nitrogen	Lab	mg/L	EPA 300.0
Potassium, Total	Lab	mg/L	EPA 200.7
Silica, (as SiO2), Total	Lab	mg/L	EPA 200.7
Sodium, Total	Lab	mg/L	EPA 200.7
Sulfate	Lab	mg/L	EPA 300.0
Total suspended solids (TSS)	Lab	mg/L	SM 2540D
Turbidity (Nephelometric)	Lab	NTU	EPA 180.1

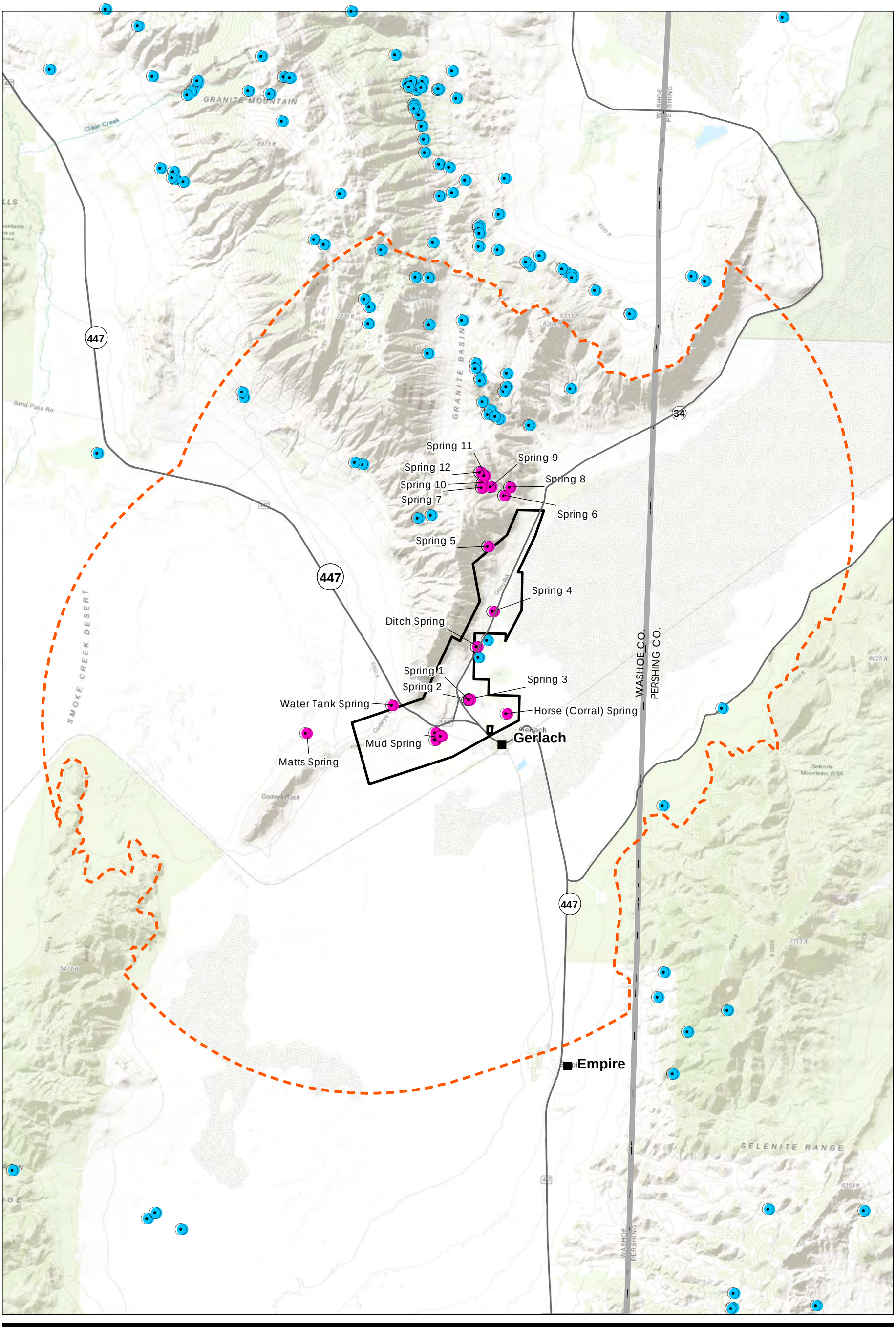
Table 2
BLM Winnemucca Analyte List for Surface Water Monitoring
Gerlach Geothermal Exploration Project
Washoe County, Nevada

Analyte	Test Type	Units	Method
Aluminum, Total	Lab	mg/L	EPA 200.7
Barium, Total	Lab	mg/L	EPA 200.7
Beryllium, Total	Lab	mg/L	EPA 200.7
Cadmium, Total	Lab	mg/L	EPA 200.8
Chromium, Total	Lab	mg/L	EPA 200.7
Copper, Total	Lab	mg/L	EPA 200.7
Molybdenum, Total	Lab	mg/L	EPA 200.7
Nickel, Total	Lab	mg/L	EPA 200.7
Phosphorus, Total (as P)	Lab	mg/L	SM 4500-P E
Selenium, Total	Lab	mg/L	EPA 200.8
Silver, Total	Lab	mg/L	EPA 200.7
Thallium, Total	Lab	mg/L	EPA 200.8
Zinc, Total	Lab	mg/L	EPA 200.7
Uranium, Total	Lab	µg/L	EPA 200.8
Adjusted Gross Alpha	Lab	pCi/L	N/A
Gross Beta	Lab	mrem	N/A

Notes:
°C = degrees Celcius
CF-IRMS = continuous flow isotope ratio mass spectrometer
EPA = Environmental Protection Agency
mg/L = milligrams per liter
mS/cm = microsiemens per centimeter
µg/L = micrograms per liter
N/A = not applicable
NTU = nephelometric turbidity units
mrem = millirem
pCi/L = picocurries per liter
ppt = parts per thousand
mV = millivolts

APPENDICES

Appendix A: Figure 5: Spring Inventory
Historical Surface Water Monitoring Analytical Results



Project AOI

Hydrologic Evaluation Study Area

Previously Sampled Springs

NHD Springs

Nevada Cities/Towns

Major Roads

N

Stantec

Feet

0 4,000 8,000 1 in = 8,000 feet

Washoe County, NV
NAD 1983 UTM Zone 11N

DRAWN BY: CJ | 1ST REVIEW: BT | 2ND REVIEW: SS

DATE: 1/19/2022 | PROJECT NO: 203721766

ORMAT NEVADA INC.
GERLACH EXPLORATION PROJECT
HYDROLOGIC EVALUATION

Figure 5
Spring Inventory

V:\2037\Active\203721766\03_data\gis_cad\gis\mxds\Fig_5_Spring_Inventory_11x17P.mxd Revised: 2022-01-19 By: chrjohnson

Service Layer Credits: Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User Community

2020 Analytical Results

Site: Spring 1		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	0.16	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10	**0.3**	mg/L	0.25
Antimony	0.006	**0.0068**	mg/L	0.0025	**0.0096**	mg/L	0.0050	**0.012**	mg/L	0.0050	**0.0083**	mg/L	0.005
Arsenic	0.01	**0.042**	mg/L	0.0050	**0.061**	mg/L	0.010	**0.047**	mg/L	0.0050	**0.059**	mg/L	0.01
Barium	2	0.16	mg/L	0.040	0.13	mg/L	0.040	0.05	mg/L	0.10	0.14	mg/L	0.1
Beryllium	0.004	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.0025	mg/L	0.005
Bicarbonate	-	84	mg/L as CaCO3	1.0	86	mg/L as CaCO3	1.0	77	mg/L as CaCO3	1.0	75	mg/L as CaCO3	1.0
Boron	-	9.4	mg/L	1.0	8.9	mg/L	0.20	9.3	mg/L	0.50	8.7	mg/L	0.5
Cadmium	0.005	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.00125	mg/L	0.0025	0.0025	mg/L	0.005
Calcium	-	89	mg/L	1.0	80	mg/L	1.0	81	mg/L	2.5	76	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1
Chloride	250-500	**2200**	mg/L	100	2400	mg/L	20	**2300**	mg/L	100	**2300**	mg/L	25
Chromium	0.1	0.005	mg/L	0.010	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Copper	1.0-1.3	0.04	mg/L	0.080	0.04	mg/L	0.080	0.1	mg/L	0.20	0.1	mg/L	0.2
Electrical Conductivity	-	7600	µmhos/cm	2.0	8600	µmhos/cm	5.0	7800	µmhos/cm	5.0	9200	µmhos/cm	5
Fluoride	4	**4.3**	mg/L	1.5	**5.0**	mg/L	1.5	**4.5**	mg/L	3.0	3.75	mg/L	7.5
Iron	0.3-0.6	0.1	mg/L	0.20	0.1	mg/L	0.20	0.15	mg/L	0.30	0.25	mg/L	0.5
Lead	0.015	0.00125	mg/L	0.0025	0.0025	mg/L	0.0050	0.00125	mg/L	0.0025	0.0025	mg/L	0.005
Lithium	-	2.1	mg/L	0.20	2.6	mg/L	0.20	1.9	mg/L	0.50	2	mg/L	0.5
Magnesium	125-150	2.1	mg/L	1.0	1.7	mg/L	1.0	1.25	mg/L	2.5	1.25	mg/L	2.5
Manganese	0.1	0.01	mg/L	0.020	0.025	mg/L	0.020	0.072	mg/L	0.050	0.025	mg/L	0.05
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.1
Nickel	0.1	0.025	mg/L	0.050	0.025	mg/L	0.050	0.025	mg/L	0.050	0.075	mg/L	0.15
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	0.75	mg/L	1.5	1.9	mg/L	3.8
Nitrite	1	0.15	mg/L	0.30	0.25	mg/L	0.50	0.25	mg/L	0.50	0.75	mg/L	1.5
Phosphorous	-	0.031	mg/L	0.020	0.034	mg/L	0.020	0.061	mg/L	0.020	0.038	mg/L	0.02
Potassium	-	140	mg/L	2.0	160	mg/L	2.0	130	mg/L	5.0	120	mg/L	5
pH	6.5–8.5	7.23	pH Units	-	7.62	pH Units	-	7.34	pH Units	-	7.21	pH Units	-
Selenium	0.05	0.019	mg/L	0.0050	0.017	mg/L	0.010	0.0025	mg/L	0.0050	0.005	mg/L	0.01
Silica	-	176	mg/L	0.640	195	mg/L	0.640	200	mg/L	1.60	200	mg/L	1.6
Silver	0.05	0.005	mg/L	0.010	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Sodium	-	1700	mg/L	15	1700	mg/L	30	1700	mg/L	30	1500	mg/L	7.5
Sulfate	250–500	380	mg/L	7.5	430	mg/L	7.5	390	mg/L	15	410	mg/L	38
Thallium	0.002	0.0018	mg/L	0.0010	**0.0034**	mg/L	0.0020	**0.0030**	mg/L	0.0010	**0.0028**	mg/L	0.002
Total Alkalinity	-	84	mg/L as CaCO3	1.0	86	mg/L as CaCO3	1.0	77	mg/L as CaCO3	1.0	75	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1,000	**4200**	mg/L	25	4500	mg/L	25	4400	mg/L	25	**5000**	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	5	mg/L	10	5	mg/L	10	5	mg/L	10
Uranium	30	2.5	µg/L	5.0	5	µg/L	10	2.5	µg/L	5.0	5	µg/L	10
Zinc	5	0.02	mg/L	0.040	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.1
Oxygen Isotopes	-	-9.59	per mil	-	-9.17	per mil	-	-9.48	per mil	-	-9.64	per mil	-
Deuterium	-	-97.8	per mil	-	-96.4	per mil	-	-97.5	per mil	-	-98.6	per mil	-
Gross Alpha	15	5.3 +/- 0.9	pCi/L	-	5.9 +/- 1.0	pCi/L	-	5.4 +/- 0.9	pCi/L	-	4.4 +/- 0.8	pCi/L	-
Gross Beta[1]	4	104.8 +/- 5.6	pCi/L	-	87.3 +/- 8.0	pCi/L	-	102.8 +/- 5.7	pCi/L	-	129.7 +/- 11.7	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 2		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	0.05	mg/L	0.10	0.16	mg/L	0.10	**0.30**	mg/L	0.25	**1.1**	mg/L	0.25
Antimony	0.006	**0.0092**	mg/L	0.0025	**0.010**	mg/L	0.0050	**0.010**	mg/L	0.0050	**0.011**	mg/L	0.005
Arsenic	0.01	**0.045**	mg/L	0.0050	**0.072**	mg/L	0.010	**0.046**	mg/L	0.0050	**0.069**	mg/L	0.01
Barium	2	0.088	mg/L	0.040	0.060	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.1
Beryllium	0.004	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.0025	mg/L	0.005
Bicarbonate	-	73	mg/L as CaCO3	1.0	76	mg/L as CaCO3	1.0	77	mg/L as CaCO3	1.0	74	mg/L as CaCO3	1
Boron	-	8.6	mg/L	1.0	8.5	mg/L	0.20	9.0	mg/L	0.50	8.5	mg/L	0.5
Cadmium	0.005	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.00125	mg/L	0.0025	0.0025	mg/L	0.005
Calcium	-	78	mg/L	1.0	74	mg/L	1.0	82	mg/L	2.5	74	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1
Chloride	250-500	**2200**	mg/L	100	**2200**	mg/L	20	**2300**	mg/L	100	**2200**	mg/L	25
Chromium	0.1	0.005	mg/L	0.010	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Copper	1.0-1.3	0.04	mg/L	0.080	0.04	mg/L	0.080	0.1	mg/L	0.20	0.1	mg/L	0.2
Electrical Conductivity	-	7500	µmhos/cm	2.0	9200	µmhos/cm	5.0	7200	µmhos/cm	5.0	9100	µmhos/cm	5
Fluoride	4	**4.2**	mg/L	1.5	**4.5**	mg/L	1.5	**4.1**	mg/L	3.0	3.75	mg/L	7.5
Iron	0.3-0.6	0.1	mg/L	0.20	0.24	mg/L	0.20	0.15	mg/L	0.30	**1.9**	mg/L	0.5
Lead	0.015	0.00125	mg/L	0.0025	0.0025	mg/L	0.0050	0.00125	mg/L	0.0025	0.0025	mg/L	0.005
Lithium	-	2.2	mg/L	0.20	2.6	mg/L	0.20	1.9	mg/L	0.50	2	mg/L	0.5
Magnesium	125-150	1.3	mg/L	1.0	1.3	mg/L	1.0	1.25	mg/L	2.5	1.25	mg/L	2.5
Manganese	0.1	0.026	mg/L	0.020	0.025	mg/L	0.020	0.025	mg/L	0.050	0.025	mg/L	0.05
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	**0.0035**	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.1
Nickel	0.1	0.025	mg/L	0.050	0.025	mg/L	0.050	0.025	mg/L	0.050	0.075	mg/L	0.15
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	0.75	mg/L	1.5	1.9	mg/L	3.8
Nitrite	1	0.15	mg/L	0.30	0.25	mg/L	0.50	0.25	mg/L	0.50	0.75	mg/L	1.5
Phosphorous	-	0.034	mg/L	0.020	0.082	mg/L	0.020	0.056	mg/L	0.020	0.1	mg/L	0.02
Potassium	-	150	mg/L	2.0	170	mg/L	2.0	130	mg/L	5.0	130	mg/L	5
pH	6.5–8.5	7.17	pH Units	-	7.70	pH Units	-	7.62	pH Units	-	7.49	pH Units	-
Selenium	0.05	0.015	mg/L	0.0050	0.017	mg/L	0.010	0.0025	mg/L	0.0050	0.005	mg/L	0.01
Silica	-	181	mg/L	0.640	186	mg/L	0.640	180	mg/L	1.60	203	mg/L	1.6
Silver	0.05	0.005	mg/L	0.010	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Sodium	-	1500	mg/L	15	1700	mg/L	30	1600	mg/L	30	1500	mg/L	7.5
Sulfate	250–500	370	mg/L	7.5	400	mg/L	7.5	390	mg/L	15	400	mg/L	38
Thallium	0.002	**0.0029**	mg/L	0.0010	**0.0039**	mg/L	0.0020	**0.0043**	mg/L	0.0010	**0.0033**	mg/L	0.002
Total Alkalinity	-	73	mg/L as CaCO3	1.0	76	mg/L as CaCO3	1.0	77	mg/L as CaCO3	1.0	74	mg/L as CaCO3	1
Total Dissolved Solids (TDS)	500–1,000	**4500**	mg/L	25	4700	mg/L	25	4400	mg/L	25	**4400**	mg/L	25
Total Suspended Solids (TSS)	-	16	mg/L	10	5	mg/L	10	12	mg/L	10	44	mg/L	10
Uranium	30	2.5	µg/L	5.0	5	µg/L	10	2.5	µg/L	5.0	5	µg/L	10
Zinc	5	0.02	mg/L	0.040	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.1
Oxygen Isotopes	-	-10.56	per mil	-	-10.09	per mil	-	-9.86	per mil	-	-10.82	per mil	-
Deuterium	-	-101.4	per mil	-	-100.0	per mil	-	-99.2	per mil	-	-102.2	per mil	-
Gross Alpha	15	11.0 +/- 1.2	pCi/L	-	7.9+/- 1.1	pCi/L	-	3.7 +/- 0.7	pCi/L	-	9.0 +/- 1.6	pCi/L	-
Gross Beta[1]	4	106.1 +/- 5.5	pCi/L	-	95.4 +/- 8.1	pCi/L	-	102.7 +/- 9.1	pCi/L	-	147.9 +/- 12.1	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 3		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	**0.51**	mg/L	0.10	**0.38**	mg/L	0.10	**16**	mg/L	0.25	**0.55**	mg/L	0.25
Antimony	0.006	**0.0073**	mg/L	0.0025	0.0027	mg/L	0.0025	0.0025	mg/L	0.0050	**0.0071**	mg/L	0.0025
Arsenic	0.01	**0.028**	mg/L	0.0050	**0.030**	mg/L	0.010	**0.061**	mg/L	0.0050	**0.028**	mg/L	0.005
Barium	2	0.26	mg/L	0.040	0.24	mg/L	0.040	0.27	mg/L	0.10	0.25	mg/L	0.1
Beryllium	0.004	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.0024	mg/L	0.0020	0.0025	mg/L	0.005
Bicarbonate	-	260	mg/L as CaCO3	1.0	290	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	240	mg/L as CaCO3	1
Boron	-	8.7	mg/L	1.0	8.9	mg/L	0.20	8.3	mg/L	0.50	9	mg/L	0.5
Cadmium	0.005	0.001	mg/L	0.0020	0.001	mg/L	0.0020	0.00125	mg/L	0.0025	0.0025	mg/L	0.005
Calcium	-	130	mg/L	1.0	130	mg/L	1.0	130	mg/L	2.5	120	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1
Chloride	250-500	**2200**	mg/L	100	**2200**	mg/L	20	**2200**	mg/L	100	**2300**	mg/L	25
Chromium	0.1	0.005	mg/L	0.010	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Copper	1.0-1.3	0.04	mg/L	0.080	0.04	mg/L	0.080	0.1	mg/L	0.20	0.1	mg/L	0.2
Electrical Conductivity	-	7900	µmhos/cm	2.0	7700	µmhos/cm	5.0	7500	µmhos/cm	5.0	8900	µmhos/cm	5
Fluoride	4	**4.3**	mg/L	1.5	**4.8**	mg/L	1.5	**4.4**	mg/L	3.0	3.75	mg/L	7.5
Iron	0.3-0.6	0.49	mg/L	0.20	0.50	mg/L	0.20	**18**	mg/L	0.50	**0.61**	mg/L	0.5
Lead	0.015	0.00125	mg/L	0.0025	0.0025	mg/L	0.0050	**0.026**	mg/L	0.0050	0.00125	mg/L	0.0025
Lithium	-	2.0	mg/L	0.20	2.7	mg/L	0.20	1.9	mg/L	0.50	2.2	mg/L	0.5
Magnesium	125-150	6.5	mg/L	1.0	6.3	mg/L	1.0	16	mg/L	2.5	6	mg/L	2.5
Manganese	0.1	0.052	mg/L	0.020	0.063	mg/L	0.020	**0.62**	mg/L	0.050	**0.11**	mg/L	0.05
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	**0.0018**	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.1
Nickel	0.1	0.025	mg/L	0.050	0.025	mg/L	0.050	0.025	mg/L	0.050	0.075	mg/L	0.15
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	0.75	mg/L	1.5	1.9	mg/L	3.8
Nitrite	1	0.15	mg/L	0.30	0.25	mg/L	0.50	0.25	mg/L	0.50	0.75	mg/L	1.5
Phosphorous	-	0.12	mg/L	0.020	0.056	mg/L	0.020	0.30	mg/L	0.020	0.05	mg/L	0.02
Potassium	-	140	mg/L	2.0	170	mg/L	2.0	130	mg/L	5.0	140	mg/L	5
pH	6.5–8.5	7.12	pH Units	-	7.54	pH Units	-	7.37	pH Units	-	7.25	pH Units	-
Selenium	0.05	0.017	mg/L	0.0050	0.014	mg/L	0.010	0.0025	mg/L	0.0050	0.0025	mg/L	0.005
Silica	-	174	mg/L	0.640	194	mg/L	0.640	163	mg/L	1.60	251	mg/L	1.6
Silver	0.05	0.005	mg/L	0.010	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Sodium	-	1600	mg/L	15	1900	mg/L	30	1700	mg/L	30	1600	mg/L	7.5
Sulfate	250–500	350	mg/L	7.5	360	mg/L	7.5	350	mg/L	15	380	mg/L	38
Thallium	0.002	**0.0042**	mg/L	0.0010	**0.0021**	mg/L	0.0020	**0.0086**	mg/L	0.0020	0.0017	mg/L	0.001
Total Alkalinity	-	260	mg/L as CaCO3	1.0	290	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	240	mg/L as CaCO3	1
Total Dissolved Solids (TDS)	500–1,000	4100	mg/L	25	**4600**	mg/L	25	**4400**	mg/L	25	**4700**	mg/L	25
Total Suspended Solids (TSS)	-	94	mg/L	10	28	mg/L	10	580	mg/L	10	29	mg/L	10
Uranium	30	2.5	µg/L	5.0	5	µg/L	10	5	µg/L	10	2.5	µg/L	5
Zinc	5	0.02	mg/L	0.040	0.02	mg/L	0.040	0.15	mg/L	0.10	0.05	mg/L	0.1
Oxygen Isotopes	-	-10.1	per mil	-	-9.89	per mil	-	-9.97	per mil	-	-10.13	per mil	-
Deuterium	-	-98.7	per mil	-	-97.8	per mil	-	-98.9	per mil	-	-98.8	per mil	-
Gross Alpha	15	6.3 +/- 1.0	pCi/L	-	8.3 +/- 1.1	pCi/L	-	9.1 +/- 1.1	pCi/L	-	5.5 +/-1.4	pCi/L	-
Gross Beta[1]	4	112.5 +/- 5.9	pCi/L	-	109.7 +/- 8.6	pCi/L	-	107.8 +/- 9.2	pCi/L	-	123.3 +/- 11.6	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 5		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3 (Dry)			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	0.025	mg/L	0.050	0.025	mg/L	0.050	-	-	-	0.025	mg/L	0.050
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	0.00125	mg/L	0.0025
Arsenic	0.01	0.0062	mg/L	0.0050	0.0055	mg/L	0.0050	-	-	-	0.0058	mg/L	0.0050
Barium	2	0.044	mg/L	0.020	0.036	mg/L	0.020	-	-	-	0.064	mg/L	0.020
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	0.0005	mg/L	0.0010
Bicarbonate	-	240	mg/L as CaCO3	1.0	260	mg/L as CaCO3	1.0	-	-	-	250	mg/L as CaCO3	1.0
Boron	-	1.3	mg/L	0.10	1.5	mg/L	0.10	-	-	-	1.4	mg/L	0.10
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	0.0005	mg/L	0.0010
Calcium	-	55	mg/L	0.50	56	mg/L	0.50	-	-	-	67	mg/L	0.50
Carbonate	-	0.5	mg/L as CaCO3	1.0	7.3	mg/L as CaCO3	1.0	-	-	-	0.5	mg/L as CaCO3	1.0
Chloride	250-500	200	mg/L	5.0	250	mg/L	5.0	-	-	-	300	mg/L	5.0
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	0.0025	mg/L	0.0050
Copper	1.0-1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	-	-	-	0.02	mg/L	0.040
Electrical Conductivity	-	1200	µmhos/cm	1.0	1500	µmhos/cm	1.0	-	-	-	1700	µmhos/cm	1.0
Fluoride	4	0.5	mg/L	1.0	0.5	mg/L	1.0	-	-	-	0.75	mg/L	1.5
Iron	0.3-0.6	0.05	mg/L	0.10	0.05	mg/L	0.10	-	-	-	0.05	mg/L	0.10
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	-	-	-	0.05	mg/L	0.10
Magnesium	125-150	16	mg/L	0.50	19	mg/L	0.50	-	-	-	22	mg/L	0.50
Manganese	0.1	0.005	mg/L	0.010	0.005	mg/L	0.010	-	-	-	0.005	mg/L	0.010
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	-	-	-	0.000225	mg/L	0.00045
Molybdenum	-	0.01	mg/L	0.020	0.020	mg/L	0.020	-	-	-	0.026	mg/L	0.020
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	-	-	-	0.015	mg/L	0.030
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	-	-	-	0.375	mg/L	0.75
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	-	-	-	0.15	mg/L	0.30
Phosphorous	-	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	0.024	mg/L	0.02
Potassium	-	12	mg/L	1.0	14	mg/L	1.0	-	-	-	13	mg/L	1.0
pH	6.5–8.5	8.18	pH Units	-	8.34	pH Units	-	-	-	-	8.24	pH Units	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	0.0025	mg/L	0.0050
Silica	-	21.1	mg/L	0.320	7.26	mg/L	0.320	-	-	-	22.4	mg/L	0.320
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	0.0025	mg/L	0.0050
Sodium	-	160	mg/L	1.5	470	mg/L	30	-	-	-	230	mg/L	1.5
Sulfate	250–500	100	mg/L	7.5	110	mg/L	7.5	-	-	-	150	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	0.0005	mg/L	0.0010
Total Alkalinity	-	240	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0	-	-	-	250	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1,000	640	mg/L	25	770	mg/L	25	-	-	-	960	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	5	mg/L	10	-	-	-	5	mg/L	10
Uranium	30	37	µg/L	5.0	**32**	µg/L	5.0	-	-	-	**49**	µg/L	5.0
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	0.01	mg/L	0.02
Oxygen Isotopes	-	-13.7	per mil	-	-12.87	per mil	-	-	-	-	-13.91	per mil	-
Deuterium	-	-112.6	per mil	-	-109.5	per mil	-	-	-	-	-113.2	per mil	-
Gross Alpha	15	**31.9 +/- 1.7**	pCi/L	-	**25.8 +/- 1.7**	pCi/L	-	-	-	-	**33.6 +/- 2.6**	pCi/L	-
Gross Beta[1]	4	15.1 +/- 1.6	pCi/L	-	20.9 +/- 1.8	pCi/L	-	-	-	-	19.7 +/- 1.8	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 6		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	0.025	mg/L	0.050	0.13	mg/L	0.050	0.05	mg/L	0.10	0.05	mg/L	0.10
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Arsenic	0.01	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Barium	2	0.058	mg/L	0.020	0.047	mg/L	0.020	0.11	mg/L	0.040	0.081	mg/L	0.040
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.001	mg/L	0.0020	0.001	mg/L	0.0020
Bicarbonate	-	210	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0	280	mg/L as CaCO3	1.0
Boron	-	1.9	mg/L	0.10	2.4	mg/L	0.10	3.5	mg/L	0.20	3.2	mg/L	0.20
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.001	mg/L	0.0020	0.001	mg/L	0.0020
Calcium	-	180	mg/L	0.50	240	mg/L	5.0	300	mg/L	1.0	270	mg/L	1.0
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250-500	**680**	mg/L	5.0	770	mg/L	5.0	**1100**	mg/L	100	**950**	mg/L	5.0
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.005	mg/L	0.010	0.005	mg/L	0.010
Copper	1.0-1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	0.04	mg/L	0.080	0.04	mg/L	0.080
Electrical Conductivity	-	2700	µmhos/cm	1.0	3100	µmhos/cm	1.0	4000	µmhos/cm	1.0	4000	µmhos/cm	1.0
Fluoride	4	0.5	mg/L	1.0	0.5	mg/L	1.0	0.5	mg/L	1.0	0.75	mg/L	1.5
Iron	0.3-0.6	0.05	mg/L	0.10	0.15	mg/L	0.10	0.1	mg/L	0.20	0.1	mg/L	0.20
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	0.1	mg/L	0.20	0.1	mg/L	0.20
Magnesium	125-150	51	mg/L	0.50	59	mg/L	0.50	92	mg/L	1.0	80	mg/L	1.0
Manganese	0.1	0.005	mg/L	0.010	0.060	mg/L	0.010	0.056	mg/L	0.020	0.01	mg/L	0.020
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.023	mg/L	0.020	0.024	mg/L	0.020	0.02	mg/L	0.040	0.02	mg/L	0.040
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	0.025	mg/L	0.050	0.03	mg/L	0.060
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	0.75	mg/L	1.5	0.375	mg/L	0.75
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	0.25	mg/L	0.50	0.15	mg/L	0.30
Phosphorous	-	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Potassium	-	17	mg/L	1.0	23	mg/L	1.0	26	mg/L	2.0	24	mg/L	2.0
pH	6.5–8.5	7.86	pH Units	-	7.67	pH Units	-	7.46	pH Units	-	7.7	pH Units	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.005	mg/L	0.010	0.0025	mg/L	0.005
Silica	-	20.8	mg/L	0.320	27.2	mg/L	0.320	29.7	mg/L	0.640	31.6	mg/L	0.640
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.005	mg/L	0.010	0.005	mg/L	0.010
Sodium	-	360	mg/L	15	390	mg/L	15	530	mg/L	15	430	mg/L	3
Sulfate	250–500	270	mg/L	7.5	300	mg/L	7.5	400	mg/L	7.5	440	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	210	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0	280	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1,000	830	mg/L	25	**2000**	mg/L	25	**2700**	mg/L	25	**2500**	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	17	mg/L	10	5	mg/L	10	5	mg/L	10
Uranium	30	75	µg/L	5.0	58	µg/L	5.0	**85**	µg/L	5.0	**92**	µg/L	5
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	0.02	mg/L	0.040	0.02	mg/L	0.040
Oxygen Isotopes	-	-13.88	per mil	-	-14.05	per mil	-	-13.88	per mil	-	-14.16	per mil	-
Deuterium	-	-114.2	per mil	-	-114.8	per mil	-	-113.6	per mil	-	-115.3	per mil	-
Gross Alpha	15	**53.8 +/-2.6**	pCi/L	-	**41.6 +/- 3.1**	pCi/L	-	**52.1 +/- 2.6**	pCi/L	-	**75.6 +/- 3.0**	pCi/L	-
Gross Beta[1]	4	22.5 +/- 1.9	pCi/L	-	24.4 +/- 2.4	pCi/L	-	25.9 +/- 2.2	pCi/L	-	36.5 +/- 2.5	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 7		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3 (Dry)			2020 - Quarter 4 (Dry)		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	**0.80**	mg/L	0.050	0.025	mg/L	0.050	-	-	-	-	-	-
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	-	-	-
Arsenic	0.01	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Barium	2	0.082	mg/L	0.020	0.064	mg/L	0.020	-	-	-	-	-	-
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Bicarbonate	-	200	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	-	-	-	-	-	-
Boron	-	2.0	mg/L	0.10	2.4	mg/L	0.10	-	-	-	-	-	-
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Calcium	-	220	mg/L	5.0	200	mg/L	0.50	-	-	-	-	-	-
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	-	-	-	-	-	-
Chloride	250-500	**650**	mg/L	5.0	**680**	mg/L	5.0	-	-	-	-	-	-
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Copper	1.0-1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	-	-	-	-	-	-
Electrical Conductivity	-	2600	µmhos/cm	1.0	2800	µmhos/cm	1.0	-	-	-	-	-	-
Fluoride	4	0.5	mg/L	1.0	0.5	mg/L	1.0	-	-	-	-	-	-
Iron	0.3-0.6	**0.63**	mg/L	0.10	0.05	mg/L	0.10	-	-	-	-	-	-
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	-	-	-
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	-	-	-	-	-	-
Magnesium	125-150	56	mg/L	0.50	60	mg/L	0.50	-	-	-	-	-	-
Manganese	0.1	0.060	mg/L	0.010	0.005	mg/L	0.010	-	-	-	-	-	-
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	-	-	-	-	-	-
Molybdenum	-	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	-	-	-	-	-	-
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	-	-	-	-	-	-
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	-	-	-	-	-	-
Phosphorous	-	0.024	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Potassium	-	18	mg/L	1.0	21	mg/L	1.0	-	-	-	-	-	-
pH	6.5–8.5	7.62	pH Units	-	7.93	pH Units	-	-	-	-	-	-	-
Selenium	0.05	0.0059	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Silica	-	24.3	mg/L	0.320	28.4	mg/L	0.320	-	-	-	-	-	-
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Sodium	-	280	mg/L	15	230	mg/L	1.5	-	-	-	-	-	-
Sulfate	250–500	260	mg/L	7.5	260	mg/L	7.5	-	-	-	-	-	-
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Total Alkalinity	-	200	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500–1,000	1600	mg/L	25	**1900**	mg/L	25	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	56	mg/L	10	5	mg/L	10	-	-	-	-	-	-
Uranium	30	**73**	µg/L	5.0	59	µg/L	5.0	-	-	-	-	-	-
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Oxygen Isotopes	-	-14.52	per mil	-	-14.55	per mil	-	-	-	-	-	-	-
Deuterium	-	-116.4	per mil	-	-116.9	per mil	-	-	-	-	-	-	-
Gross Alpha	15	**71.4 +/- 3.0**	pCi/L	-	**48.6 +/- 3.3**	pCi/L	-	-	-	-	-	-	-
Gross Beta[1]	4	29.9 +/- 2.5	pCi/L	-	23.1+/- 1.8	pCi/L	-	-	-	-	-	-	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 8		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	0.025	mg/L	0.050	**0.30**	mg/L	0.050	0.025	mg/L	0.050	0.025	mg/L	0.05
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Arsenic	0.01	0.0025	mg/L	0.0050	0.0084	mg/L	0.0050	0.0053	mg/L	0.0050	0.0025	mg/L	0.0050
Barium	2	0.041	mg/L	0.020	0.056	mg/L	0.020	0.038	mg/L	0.020	0.043	mg/L	0.020
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Bicarbonate	-	310	mg/L as CaCO3	1.0	330	mg/L as CaCO3	1.0	350	mg/L as CaCO3	1.0	310	mg/L as CaCO3	1.0
Boron	-	1.1	mg/L	0.10	1.2	mg/L	0.10	1.4	mg/L	0.10	1.2	mg/L	0.10
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Calcium	-	60	mg/L	0.50	62	mg/L	0.50	73	mg/L	0.50	65	mg/L	0.50
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250-500	150	mg/L	5.0	160	mg/L	1.0	190	mg/L	2.0	170	mg/L	5.0
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Copper	1.0-1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	0.02	mg/L	0.040	0.02	mg/L	0.040
Electrical Conductivity	-	1100	µmhos/cm	1.0	1200	µmhos/cm	1.0	1300	µmhos/cm	1.0	1300	µmhos/cm	1.0
Fluoride	4	0.5	mg/L	1.0	1.1	mg/L	0.30	1.2	mg/L	0.60	0.75	mg/L	1.5
Iron	0.3-0.6	0.05	mg/L	0.10	0.34	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Magnesium	125-150	12	mg/L	0.50	12	mg/L	0.50	16	mg/L	0.50	13	mg/L	0.50
Manganese	0.1	0.010	mg/L	0.010	**0.19**	mg/L	0.010	0.037	mg/L	0.010	0.016	mg/L	0.010
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	0.015	mg/L	0.030	0.015	mg/L	0.030
Nitrate	10	0.375	mg/L	0.75	0.075	mg/L	0.15	0.15	mg/L	0.30	0.375	mg/L	0.75
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	0.06	mg/L	0.12	0.15	mg/L	0.30
Phosphorous	-	0.01	mg/L	0.020	0.028	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Potassium	-	7.5	mg/L	1.0	9.0	mg/L	1.0	9.7	mg/L	1.0	8.7	mg/L	1.0
pH	6.5–8.5	7.87	pH Units	-	8.22	pH Units	-	7.93	pH Units	-	7.97	pH Units	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Silica	-	29.1	mg/L	0.320	38.1	mg/L	0.320	42.7	mg/L	0.320	40.9	mg/L	0.320
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Sodium	-	150	mg/L	1.5	170	mg/L	1.5	250	mg/L	15	180	mg/L	1.5
Sulfate	250–500	70	mg/L	7.5	67	mg/L	1.5	74	mg/L	3.0	78	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	310	mg/L as CaCO3	1.0	330	mg/L as CaCO3	1.0	350	mg/L as CaCO3	1.0	310	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1,000	660	mg/L	25	730	mg/L	25	770	mg/L	25	680	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	10	mg/L	10	5	mg/L	10	5	mg/L	10
Uranium	30	30	µg/L	5.0	22	µg/L	5.0	17	µg/L	10	21	µg/L	5
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Oxygen Isotopes	-	-13.71	per mil	-	-13.62	per mil	-	-13.66	per mil	-	-13.83	per mil	-
Deuterium	-	-113.5	per mil	-	-112.7	per mil	-	-113.4	per mil	-	-113.8	per mil	-
Gross Alpha	15	**22.1 +/- 1.6**	pCi/L	-	**17.9 +/- 2.2**	pCi/L	-	11.0 +/- 1.2	pCi/L	-	**16.3 +/- 1.3**	pCi/L	-
Gross Beta[1]	4	8.9 +/- 1.4	pCi/L	-	8.4 +/- 1.5	pCi/L	-	11.0 +/- 1.6	pCi/L	-	11.2 +/- 1.6	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 12		2020 - Quarter 1			2020 - Quarter 2			2020 - Quarter 3 (Dry)			2020 - Quarter 4 (Dry)		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	**0.48**	mg/L	0.050	**0.45**	mg/L	0.050	-	-	-	-	-	-
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	-	-	-
Arsenic	0.01	0.0025	mg/L	0.0050	0.0061	mg/L	0.0050	-	-	-	-	-	-
Barium	2	0.050	mg/L	0.020	0.045	mg/L	0.020	-	-	-	-	-	-
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Bicarbonate	-	410	mg/L as CaCO3	1.0	440	mg/L as CaCO3	1.0	-	-	-	-	-	-
Boron	-	1.9	mg/L	0.10	2.2	mg/L	0.10	-	-	-	-	-	-
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Calcium	-	79	mg/L	0.50	82	mg/L	0.50	-	-	-	-	-	-
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	-	-	-	-	-	-
Chloride	250-500	350	mg/L	5.0	390	mg/L	5.0	-	-	-	-	-	-
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Copper	1.0-1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	-	-	-	-	-	-
Electrical Conductivity	-	2000	µmhos/cm	1.0	2200	µmhos/cm	1.0	-	-	-	-	-	-
Fluoride	4	0.5	mg/L	1.0	1.1	mg/L	1.0	-	-	-	-	-	-
Iron	0.3-0.6	0.44	mg/L	0.10	0.56	mg/L	0.10	-	-	-	-	-	-
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	-	-	-
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	-	-	-	-	-	-
Magnesium	125-150	30	mg/L	0.50	31	mg/L	0.50	-	-	-	-	-	-
Manganese	0.1	0.048	mg/L	0.010	0.047	mg/L	0.010	-	-	-	-	-	-
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	-	-	-	-	-	-
Molybdenum	-	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	-	-	-	-	-	-
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	-	-	-	-	-	-
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	-	-	-	-	-	-
Phosphorous	-	0.030	mg/L	0.020	0.025	mg/L	0.020	-	-	-	-	-	-
Potassium	-	16	mg/L	1.0	17	mg/L	1.0	-	-	-	-	-	-
pH	6.5–8.5	7.82	pH Units	-	7.92	pH Units	-	-	-	-	-	-	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Silica	-	26.7	mg/L	0.320	34.2	mg/L	0.320	-	-	-	-	-	-
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Sodium	-	340	mg/L	15	290	mg/L	1.5	-	-	-	-	-	-
Sulfate	250–500	130	mg/L	7.5	140	mg/L	7.5	-	-	-	-	-	-
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Total Alkalinity	-	410	mg/L as CaCO3	1.0	440	mg/L as CaCO3	1.0	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500–1,000	**1200**	mg/L	25	**1300**	mg/L	25	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	26	mg/L	10	5	mg/L	10	-	-	-	-	-	-
Uranium	30	**84**	µg/L	5.0	**92**	µg/L	5.0	-	-	-	-	-	-
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Oxygen Isotopes	-	-13.96	per mil	-	-13.96	per mil	-	-	-	-	-	-	-
Deuterium	-	-114.6	per mil	-	-114.7	per mil	-	-	-	-	-	-	-
Gross Alpha	15	**74.9 +/- 3.1**	pCi/L	-	**72.8 +/- 4.1**	pCi/L	-	-	-	-	-	-	-
Gross Beta[1]	4	24.5 +/- 2.0	pCi/L	-	28.6 +/-2.2	pCi/L	-	-	-	-	-	-	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Matt's Spring		2020 - Quarter 2			2020 - Quarter 3			2020 - Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05-0.2	**0.39**	mg/L	0.050	0.05	mg/L	0.10	0.05	mg/L	0.10
Antimony	0.006	0.00125	mg/L	0.0025	0.0029	mg/L	0.0025	0.0029	mg/L	0.0025
Arsenic	0.01	**0.41**	mg/L	0.0050	**0.37**	mg/L	0.0050	**0.38**	mg/L	0.0050
Barium	2	0.024	mg/L	0.020	0.02	mg/L	0.040	0.02	mg/L	0.040
Beryllium	0.004	0.0005	mg/L	0.0010	0.001	mg/L	0.0020	0.001	mg/L	0.0020
Bicarbonate	-	610	mg/L as CaCO3	1.0	450	mg/L as CaCO3	1.0	470	mg/L as CaCO3	1.0
Boron	-	20	mg/L	2.0	8.0	mg/L	0.20	8.3	mg/L	0.20
Cadmium	0.005	0.0005	mg/L	0.0010	0.001	mg/L	0.0020	0.001	mg/L	0.0020
Calcium	-	2.5	mg/L	0.50	1.1	mg/L	1.0	1	mg/L	1.0
Carbonate	-	92	mg/L as CaCO3	1.0	230	mg/L as CaCO3	1.0	220	mg/L as CaCO3	1.0
Chloride	250-500	**700**	mg/L	5.0	**680**	mg/L	10	**700**	mg/L	5.0
Chromium	0.1	0.0025	mg/L	0.0050	0.005	mg/L	0.010	0.005	mg/L	0.010
Copper	1.0-1.3	0.02	mg/L	0.040	0.04	mg/L	0.080	0.04	mg/L	0.080
Electrical Conductivity	-	4100	µmhos/cm	1.0	4000	µmhos/cm	1.0	4100	µmhos/cm	1.0
Fluoride	4	**7.0**	mg/L	1.5	**5.9**	mg/L	3.0	**6.6**	mg/L	1.5
Iron	0.3-0.6	0.32	mg/L	0.10	0.1	mg/L	0.20	0.1	mg/L	0.20
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.1	mg/L	0.20	0.1	mg/L	0.20
Magnesium	125-150	0.58	mg/L	0.50	0.5	mg/L	1.0	0.5	mg/L	1.0
Manganese	0.1	0.045	mg/L	0.010	0.01	mg/L	0.020	0.01	mg/L	0.020
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.01	mg/L	0.020	0.02	mg/L	0.040	0.02	mg/L	0.040
Nickel	0.1	0.015	mg/L	0.030	0.025	mg/L	0.050	0.03	mg/L	0.060
Nitrate	10	0.375	mg/L	0.75	0.75	mg/L	1.5	0.375	mg/L	0.75
Nitrite	1	0.15	mg/L	0.30	0.25	mg/L	0.50	0.15	mg/L	0.30
Phosphorous	-	0.65	mg/L	0.020	0.68	mg/L	0.020	0.7	mg/L	0.020
Potassium	-	42	mg/L	1.0	32	mg/L	2.0	32	mg/L	2.0
pH	6.5–8.5	**8.87**	pH Units	-	**9.33**	pH Units	-	**9.33**	pH Units	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Silica	-	42.8	mg/L	0.320	40.1	mg/L	0.640	43.2	mg/L	0.640
Silver	0.05	0.0025	mg/L	0.0050	0.005	mg/L	0.010	0.005	mg/L	0.010
Sodium	-	2200	mg/L	30	900	mg/L	30	840	mg/L	3
Sulfate	250–500	350	mg/L	7.5	320	mg/L	15	360	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	700	mg/L as CaCO3	1.0	680	mg/L as CaCO3	1.0	690	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1,000	**2300**	mg/L	25	**2100**	mg/L	25	**2500**	mg/L	25
Total Suspended Solids (TSS)	-	60	mg/L	10	5	mg/L	10	5	mg/L	10
Uranium	30	2.5	µg/L	5.0	2.5	µg/L	5.0	2.5	µg/L	5
Zinc	5	0.01	mg/L	0.020	0.02	mg/L	0.040	0.02	mg/L	0.040
Oxygen Isotopes	-	-14.37	per mil	-	-14.63	per mil	-	-14.68	per mil	-
Deuterium	-	-114.9	per mil	-	-115.2	per mil	-	-116.1	per mil	-
Gross Alpha	15	< 1.2	pCi/L	-	<1.2	pCi/L	-	< 1.2	pCi/L	-
Gross Beta[1]	4	23.7 +/- 2.2	pCi/L	-	29.7 +/-2.8	pCi/L	-	36.5 +/- 2.9	pCi/L	-

Red **BOLD** denotes analyte exceedance.

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

pH sample analyzed beyond the EPA accepted hold time.

[1] Gross Beta analyte limits are in millirem (mrem) while lab data is reported in Picocuries per liter (pCi/L)

Site: Spring 1		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	0.11	mg/L	0.10	0.125	mg/L	0.25	**0.46**	mg/L	0.25	**1**	mg/L	0.25
Antimony	0.006	**0.0069**	mg/L	0.0050	**0.0079**	mg/L	0.0050	**0.016**	mg/L	0.0050	**0.0068**	mg/L	0.0050
Arsenic	0.01	**0.052**	mg/L	0.010	**0.053**	mg/L	0.010	**0.091**	mg/L	0.010	**0.045**	mg/L	0.010
Barium	2	0.15	mg/L	0.040	0.11	mg/L	0.10	0.14	mg/L	0.10	0.15	mg/L	0.10
Beryllium	0.004	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.001	mg/L	0.0020	0.0025	mg/L	0.0050
Bicarbonate	-	83	mg/L as CaCO3	1.0	83	mg/L as CaCO3	1.0	67	mg/L as CaCO3	1.0	97	mg/L as CaCO3	1.0
Boron	-	8.2	mg/L	0.20	8.8	mg/L	0.50	8.7	mg/L	0.50	9.9	mg/L	0.50
Cadmium	0.005	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.00125	mg/L	0.0025	0.0025	mg/L	0.0050
Calcium	-	82	mg/L	1.0	85	mg/L	2.5	70	mg/L	2.5	93	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	**2200**	mg/L	5.0	**2400**	mg/L	100	**2200**	mg/L	25	**2600**	mg/L	12
Chromium	0.1	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Copper	1–1.3	0.04	mg/L	0.080	0.1	mg/L	0.20	0.1	mg/L	0.20	0.1	mg/L	0.20
Electrical Conductivity	-	7700	µmhos/cm	2.0	8500	µmhos/cm	2.0	8400	µmhos/cm	2.0	8800	µmhos/cm	2.0
Fluoride	4	2.7	mg/L	2.0	**4.3**	mg/L	3.0	**5.6**	mg/L	3.0	**5**	mg/L	3.0
Iron	0.3–0.6	0.1	mg/L	0.20	0.25	mg/L	0.50	0.43	mg/L	0.30	**0.99**	mg/L	0.50
Lead	0.015	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Lithium	-	2	mg/L	0.20	1.9	mg/L	0.50	2.1	mg/L	0.50	2.1	mg/L	0.50
Magnesium	125–150	1.8	mg/L	1.0	1.25	mg/L	2.5	1.25	mg/L	2.5	3	mg/L	2.5
Manganese	0.1	0.01	mg/L	0.020	0.025	mg/L	0.050	0.025	mg/L	0.050	0.051	mg/L	0.050
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Nickel	0.1	0.025	mg/L	0.050	0.075	mg/L	0.15	0.025	mg/L	0.050	0.075	mg/L	0.15
Nitrate	10	0.3	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5	0.15	mg/L	0.30
Nitrite	1	0.2	mg/L	0.60	0.3	mg/L	0.60	0.25	mg/L	0.50	0.1	mg/L	0.20
Phosphorous	-	0.053	mg/L	0.020	0.071	mg/L	0.020	0.087	mg/L	0.020	0.08	mg/L	0.020
Potassium	-	130	mg/L	2.0	120	mg/L	5.0	150	mg/L	5.0	140	mg/L	5.0
pH	6.5–8.5	7.67	pH Units	-	7.72	pH Units	-	7.67	pH Units	-	7.51	pH Units	-
Selenium	0.05	0.005	mg/L	0.010	**0.06**	mg/L	0.050	0.005	mg/L	0.010	0.014	mg/L	0.010
Silica	-	192	mg/L	0.640	180	mg/L	1.60	217	mg/L	1.60	158	mg/L	1.60
Silver	0.05	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Sodium	-	2100	mg/L	15	1700	mg/L	38	1500	mg/L	15	1600	mg/L	30
Sulfate	250–500	350	mg/L	30	**410**	mg/L	15	410	mg/L	15	440	mg/L	15
Thallium	0.002	0.0016	mg/L	0.0010	**0.003**	mg/L	0.0020	**0.0033**	mg/L	0.0020	0.001	mg/L	0.0020
Total Alkalinity	-	83	mg/L as CaCO3	1.0	83	mg/L as CaCO3	1.0	67	mg/L as CaCO3	1.0	97	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	**4200**	mg/L	25	**4900**	mg/L	25	**4300**	mg/L	25	**4900**	mg/L	25
Total Suspended Solids (TSS)	-	14	mg/L	10	5	mg/L	10	34	mg/L	10	40	mg/L	10
Uranium	30	5	µg/L	10	0.005	mg/L	0.010	5	µg/L	10	0.005	mg/L	0.010
Zinc	5	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Oxygen Isotopes	-	-9.6	per mil	-	-9.08	per mil	-	-9.99	per mil	-	-9.82	per mil	-
Deuterium	-	-97.9	per mil	-	-95.2	per mil	-	-99.4	per mil	-	-98.8	per mil	-
Gross Alpha	15	6.3 +/- 1.0	pCi/L	-	4.3 +/- 0.9	pCi/L	-	7.6 +/- 1.8	pCi/L	-	6.0 +/- 1.4	pCi/L	-
Gross Beta[1]	4	99.7 +/- 14.9	pCi/L	-	87.7 +/- 14.3	pCi/L	-	90.9 +/- 11.4	pCi/L	-	172.2 +/- 17.7	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 2		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	0.05	mg/L	0.10	0.125	mg/L	0.25	0.12	mg/L	0.10	**0.38**	mg/L	0.10
Antimony	0.006	**0.0096**	mg/L	0.0050	**0.0094**	mg/L	0.0050	**0.0081**	mg/L	0.0050	**0.0087**	mg/L	0.0025
Arsenic	0.01	**0.063**	mg/L	0.010	**0.062**	mg/L	0.010	**0.056**	mg/L	0.010	**0.046**	mg/L	0.0050
Barium	2	0.081	mg/L	0.040	0.05	mg/L	0.10	0.076	mg/L	0.040	0.076	mg/L	0.040
Beryllium	0.004	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.001	mg/L	0.0020	0.001	mg/L	0.0020
Bicarbonate	-	71	mg/L as CaCO3	1.0	70	mg/L as CaCO3	1.0	75	mg/L as CaCO3	1.0	72	mg/L as CaCO3	1.0
Boron	-	8.1	mg/L	0.20	7.7	mg/L	0.50	7.8	mg/L	0.20	8.9	mg/L	0.20
Cadmium	0.005	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.001	mg/L	0.0020	0.001	mg/L	0.0020
Calcium	-	71	mg/L	1.0	73	mg/L	2.5	69	mg/L	1.0	75	mg/L	1.0
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	**2100**	mg/L	5.0	**2200**	mg/L	100	**2100**	mg/L	25	**2200**	mg/L	12
Chromium	0.1	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.005	mg/L	0.010	0.005	mg/L	0.010
Copper	1–1.3	0.04	mg/L	0.080	0.1	mg/L	0.20	0.04	mg/L	0.080	0.04	mg/L	0.080
Electrical Conductivity	-	8100	µmhos/cm	2.0	8100	µmhos/cm	2.0	7700	µmhos/cm	2.0	7700	µmhos/cm	2.0
Fluoride	4	3.4	mg/L	2.0	3.2	mg/L	3.0	**4.8**	mg/L	3.0	**4.4**	mg/L	3.0
Iron	0.3–0.6	0.1	mg/L	0.20	0.25	mg/L	0.50	0.1	mg/L	0.20	0.25	mg/L	0.20
Lead	0.015	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.00125	mg/L	0.0025
Lithium	-	1.8	mg/L	0.20	1.8	mg/L	0.50	1.9	mg/L	0.20	2	mg/L	0.20
Magnesium	125–150	1.2	mg/L	1.0	1.25	mg/L	2.5	1.2	mg/L	1.0	1.4	mg/L	1.0
Manganese	0.1	0.022	mg/L	0.020	0.025	mg/L	0.050	0.024	mg/L	0.020	0.029	mg/L	0.020
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.05	mg/L	0.10	0.02	mg/L	0.040	0.02	mg/L	0.040
Nickel	0.1	0.025	mg/L	0.050	0.075	mg/L	0.15	0.025	mg/L	0.050	0.03	mg/L	0.060
Nitrate	10	0.3	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5	0.15	mg/L	0.30
Nitrite	1	0.2	mg/L	0.60	0.3	mg/L	0.60	0.25	mg/L	0.50	0.1	mg/L	0.20
Phosphorous	-	0.044	mg/L	0.020	0.054	mg/L	0.020	0.045	mg/L	0.020	0.082	mg/L	0.020
Potassium	-	120	mg/L	2.0	120	mg/L	5.0	130	mg/L	2.0	140	mg/L	2.0
pH	6.5–8.5	7.81	pH Units	-	7.91	pH Units	-	7.8	pH Units	-	7.73	pH Units	-
Selenium	0.05	0.005	mg/L	0.010	**0.07**	mg/L	0.050	0.005	mg/L	0.010	0.0078	mg/L	0.0050
Silica	-	171	mg/L	0.640	166	mg/L	1.60	168	mg/L	0.640	184	mg/L	0.640
Silver	0.05	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.005	mg/L	0.010	0.005	mg/L	0.010
Sodium	-	1900	mg/L	15	1500	mg/L	38	3.75	mg/L	7.5	1500	mg/L	15
Sulfate	250–500	340	mg/L	30	370	mg/L	15	400	mg/L	15	380	mg/L	15
Thallium	0.002	**0.003**	mg/L	0.0020	**0.004**	mg/L	0.0020	**0.0033**	mg/L	0.0020	**0.0033**	mg/L	0.0010
Total Alkalinity	-	71	mg/L as CaCO3	1.0	70	mg/L as CaCO3	1.0	75	mg/L as CaCO3	1.0	72	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	**3600**	mg/L	25	**4600**	mg/L	25	**4400**	mg/L	25	**3900**	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	5	mg/L	10	5	mg/L	10	5	mg/L	10
Uranium	30	5	µg/L	10	0.005	mg/L	0.010	5	µg/L	10	0.0025	mg/L	0.0050
Zinc	5	0.02	mg/L	0.040	0.05	mg/L	0.10	0.02	mg/L	0.040	0.02	mg/L	0.040
Oxygen Isotopes	-	-10.92	per mil	-	-11.08	per mil	-	-11.1	per mil	-	-11.08	per mil	-
Deuterium	-	-102.1	per mil	-	-102.2	per mil	-	-102.7	per mil	-	-101.9	per mil	-
Gross Alpha	15	10.7 +/- 1.1	pCi/L	-	10.4 +/- 1.2	pCi/L	-	5.6 +/- 1.5	pCi/L	-	8.5+/-1.6	pCi/L	-
Gross Beta[1]	4	143.6 +/- 16.0	pCi/L	-	100.5 +/- 14.5	pCi/L	-	101.8 +/- 11.7	pCi/L	-	113.2+/-6.2	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 3		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	**1.1**	mg/L	0.10	**0.25**	mg/L	0.25	**8.1**	mg/L	0.10	**0.75**	mg/L	0.25
Antimony	0.006	0.0042	mg/L	0.0025	0.0125	mg/L	0.025	0.0052	mg/L	0.0025	0.0025	mg/L	0.0050
Arsenic	0.01	**0.02**	mg/L	0.010	**0.015**	mg/L	0.010	**0.068**	mg/L	0.0050	**0.036**	mg/L	0.010
Barium	2	0.21	mg/L	0.040	0.18	mg/L	0.10	0.24	mg/L	0.040	0.34	mg/L	0.10
Beryllium	0.004	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.001	mg/L	0.0020	0.0025	mg/L	0.0050
Bicarbonate	-	240	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0	240	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0
Boron	-	7.9	mg/L	0.20	8.2	mg/L	0.50	7.9	mg/L	0.20	16	mg/L	0.50
Cadmium	0.005	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.001	mg/L	0.0020	0.0025	mg/L	0.0050
Calcium	-	110	mg/L	1.0	120	mg/L	2.5	110	mg/L	1.0	210	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	**2100**	mg/L	5.0	**2300**	mg/L	100	**2200**	mg/L	25	**2800**	mg/L	12
Chromium	0.1	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.005	mg/L	0.010	0.0125	mg/L	0.025
Copper	1–1.3	0.04	mg/L	0.080	0.1	mg/L	0.20	0.04	mg/L	0.080	0.1	mg/L	0.20
Electrical Conductivity	-	7800	µmhos/cm	2.0	8500	µmhos/cm	2.0	7800	µmhos/cm	2.0	12000	µmhos/cm	5.0
Fluoride	4	3.4	mg/L	2.0	**4.3**	mg/L	3.0	**5**	mg/L	3.0	**5.2**	mg/L	3.0
Iron	0.3–0.6	**1.2**	mg/L	0.20	0.25	mg/L	0.50	**8.3**	mg/L	0.20	**1.4**	mg/L	0.50
Lead	0.015	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0086	mg/L	0.0025	0.0025	mg/L	0.0050
Lithium	-	1.8	mg/L	0.20	1.8	mg/L	0.50	2	mg/L	0.20	2.8	mg/L	0.50
Magnesium	125–150	5.9	mg/L	1.0	7.1	mg/L	2.5	8.9	mg/L	1.0	9.4	mg/L	2.5
Manganese	0.1	0.074	mg/L	0.020	0.081	mg/L	0.050	**0.35**	mg/L	0.020	**1.3**	mg/L	0.050
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.0011	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.05	mg/L	0.10	0.02	mg/L	0.040	0.05	mg/L	0.10
Nickel	0.1	0.025	mg/L	0.050	0.075	mg/L	0.15	0.025	mg/L	0.050	0.075	mg/L	0.15
Nitrate	10	0.3	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5	0.15	mg/L	0.30
Nitrite	1	0.2	mg/L	0.60	0.3	mg/L	0.60	0.25	mg/L	0.50	0.1	mg/L	0.20
Phosphorous	-	0.065	mg/L	0.020	0.044	mg/L	0.020	0.093	mg/L	0.020	0.088	mg/L	0.020
Potassium	-	120	mg/L	2.0	120	mg/L	5.0	130	mg/L	2.0	180	mg/L	5.0
pH	6.5–8.5	7.12	pH Units	-	7.08	pH Units	-	7.59	pH Units	-	7.52	pH Units	-
Selenium	0.05	0.005	mg/L	0.010	**0.062**	mg/L	0.050	0.012	mg/L	0.0050	0.03	mg/L	0.010
Silica	-	170	mg/L	0.640	183	mg/L	1.60	206	mg/L	0.640	204	mg/L	1.60
Silver	0.05	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.005	mg/L	0.010	0.0125	mg/L	0.025
Sodium	-	1900	mg/L	15	1600	mg/L	38	1500	mg/L	38	2000	mg/L	30
Sulfate	250–500	300	mg/L	30	340	mg/L	15	370	mg/L	15	**560**	mg/L	15
Thallium	0.002	**0.0024**	mg/L	0.0020	**0.0027**	mg/L	0.0020	**0.0047**	mg/L	0.0010	0.001	mg/L	0.0020
Total Alkalinity	-	240	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0	240	mg/L as CaCO3	1.0	270	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	**3900**	mg/L	25	**4800**	mg/L	25	**3700**	mg/L	25	**5400**	mg/L	25
Total Suspended Solids (TSS)	-	49	mg/L	10	14	mg/L	10	220	mg/L	10	17	mg/L	10
Uranium	30	5	µg/L	10	0.005	mg/L	0.010	2.5	µg/L	5.0	0.005	mg/L	0.010
Zinc	5	0.02	mg/L	0.040	0.05	mg/L	0.10	0.052	mg/L	0.040	0.05	mg/L	0.10
Oxygen Isotopes	-	-10.46	per mil	-	-10.01	per mil	-	-10.18	per mil	-	-10.9	per mil	-
Deuterium	-	-99.9	per mil	-	-98.2	per mil	-	-99.5	per mil	-	-103	per mil	-
Gross Alpha	15	6.2 +/- 0.9	pCi/L	-	8.9 +/- 1.7	pCi/L	-	11.1 +/- 1.9	pCi/L	-	130.0 +/- 1.8	pCi/L	-
Gross Beta[1]	4	124.4 +/- 15.5	pCi/L	-	92.8 +/- 14.3	pCi/L	-	115.3 +/- 12.3	pCi/L	-	143.4 +/- 17.3	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 4		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	**8.2**	mg/L	0.10	**350**	mg/L	5.0	**26**	mg/L	0.25	**15**	mg/L	0.25
Antimony	0.006	0.00125	mg/L	0.0025	0.0125	mg/L	0.025	0.00125	mg/L	0.0025	0.006	mg/L	0.012
Arsenic	0.01	**0.026**	mg/L	0.025	**0.095**	mg/L	0.050	**0.015**	mg/L	0.010	**0.035**	mg/L	0.025
Barium	2	0.51	mg/L	0.040	**3.3**	mg/L	0.10	0.48	mg/L	0.10	0.67	mg/L	0.10
Beryllium	0.004	0.001	mg/L	0.0020	**0.02**	mg/L	0.0050	0.001	mg/L	0.0020	0.0025	mg/L	0.0050
Bicarbonate	-	380	mg/L as CaCO3	1.0	420	mg/L as CaCO3	1.0	440	mg/L as CaCO3	1.0	360	mg/L as CaCO3	1.0
Boron	-	16	mg/L	0.20	14	mg/L	0.50	11	mg/L	0.50	23	mg/L	2.0
Cadmium	0.005	0.001	mg/L	0.0020	0.0025	mg/L	0.0050	0.00125	mg/L	0.0025	0.0025	mg/L	0.0050
Calcium	-	290	mg/L	1.0	730	mg/L	2.5	180	mg/L	2.5	390	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	**5300**	mg/L	12	**3300**	mg/L	100	**3000**	mg/L	25	**6000**	mg/L	12
Chromium	0.1	0.005	mg/L	0.010	**0.18**	mg/L	0.025	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Copper	1–1.3	0.04	mg/L	0.080	0.58	mg/L	0.20	0.1	mg/L	0.20	0.1	mg/L	0.20
Electrical Conductivity	-	21000	µmhos/cm	5.0	12000	µmhos/cm	5.0	9700	µmhos/cm	2.0	26000	µmhos/cm	10
Fluoride	4	**5.1**	mg/L	2.0	**7.8**	mg/L	3.0	**6.3**	mg/L	3.0	3.75	mg/L	7.5
Iron	0.3–0.6	**6.8**	mg/L	0.20	**350**	mg/L	10	**23**	mg/L	0.50	**13**	mg/L	0.50
Lead	0.015	0.0025	mg/L	0.0050	**0.15**	mg/L	0.0050	0.0025	mg/L	0.0050	0.006	mg/L	0.012
Lithium	-	4.5	mg/L	0.20	3.6	mg/L	0.50	2.8	mg/L	0.50	5.2	mg/L	0.50
Magnesium	125–150	16	mg/L	1.0	**300**	mg/L	2.5	19	mg/L	2.5	25	mg/L	2.5
Manganese	0.1	**1.3**	mg/L	0.020	**22**	mg/L	0.050	**1.8**	mg/L	0.050	**2.2**	mg/L	0.050
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.02	mg/L	0.040	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Nickel	0.1	0.025	mg/L	0.050	**0.3**	mg/L	0.15	0.025	mg/L	0.050	0.075	mg/L	0.15
Nitrate	10	0.3	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5	0.375	mg/L	0.75
Nitrite	1	0.25	mg/L	0.60	0.3	mg/L	0.60	0.25	mg/L	0.50	0.25	mg/L	0.50
Phosphorous	-	0.2	mg/L	0.020	0.079	mg/L	0.020	0.056	mg/L	0.020	0.2	mg/L	0.020
Potassium	-	270	mg/L	2.0	460	mg/L	5.0	220	mg/L	5.0	330	mg/L	5.0
pH	6.5–8.5	7.51	pH Units	-	7.69	pH Units	-	7.73	pH Units	-	7.66	pH Units	-
Selenium	0.05	0.045	mg/L	0.025	**0.051**	mg/L	0.050	0.012	mg/L	0.010	**0.052**	mg/L	0.025
Silica	-	133	mg/L	0.640	53.9	mg/L	1.60	176	mg/L	1.60	147	mg/L	1.60
Silver	0.05	0.005	mg/L	0.010	0.0125	mg/L	0.025	0.0125	mg/L	0.025	0.0125	mg/L	0.025
Sodium	-	4300	mg/L	15	2000	mg/L	150	2000	mg/L	38	4000	mg/L	75
Sulfate	250–500	**890**	mg/L	30	**530**	mg/L	15	460	mg/L	15	**1000**	mg/L	38
Thallium	0.002	0.0005	mg/L	0.0010	**0.0074**	mg/L	0.0020	0.0005	mg/L	0.0010	0.0025	mg/L	0.0050
Total Alkalinity	-	380	mg/L as CaCO3	1.0	420	mg/L as CaCO3	1.0	440	mg/L as CaCO3	1.0	360	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	**9800**	mg/L	25	**7100**	mg/L	25	**5900**	mg/L	25	**9600**	mg/L	25
Total Suspended Solids (TSS)	-	3100	mg/L	10	590	mg/L	10	8200	mg/L	10	100	mg/L	10
Uranium	30	2.5	µg/L	5.0	0.038	mg/L	0.010	5	µg/L	10	0.0125	mg/L	0.025
Zinc	5	0.02	mg/L	0.040	1.8	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Oxygen Isotopes	-	-11.72	per mil	-	-11.51	per mil	-	-11.42	per mil	-	-12.84	per mil	-
Deuterium	-	-104.1	per mil	-	-102.6	per mil	-	-102	per mil	-	-111.7	per mil	-
Gross Alpha	15	<2.4	pCi/L	-	1.3	pCi/L	-	1.3	pCi/L	-	<2.3	pCi/L	-
Gross Beta[1]	4	277.9 +/- 20.6	pCi/L	-	120.4 +/- 15.5	pCi/L	-	197.2 +/- 14.6	pCi/L	-	254.2 +/- 21.5	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 5		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	-	-	-	**2.9**	mg/L	0.050	**0.51**	mg/L	0.050	**1.4**	mg/L	0.050
Antimony	0.006	-	-	-	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Arsenic	0.01	-	-	-	0.0086	mg/L	0.0050	0.0025	mg/L	0.0050	0.0053	mg/L	0.0050
Barium	2	-	-	-	0.12	mg/L	0.020	0.038	mg/L	0.020	0.079	mg/L	0.020
Beryllium	0.004	-	-	-	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Bicarbonate	-	-	-	-	270	mg/L as CaCO3	1.0	300	mg/L as CaCO3	1.0	290	mg/L as CaCO3	1.0
Boron	-	-	-	-	1.7	mg/L	0.10	2	mg/L	0.10	1.9	mg/L	0.10
Cadmium	0.005	-	-	-	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Calcium	-	-	-	-	86	mg/L	0.50	61	mg/L	0.50	77	mg/L	0.50
Carbonate	-	-	-	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	-	-	-	280	mg/L	5.0	290	mg/L	5.0	330	mg/L	1.2
Chromium	0.1	-	-	-	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Copper	1–1.3	-	-	-	0.02	mg/L	0.040	0.02	mg/L	0.040	0.02	mg/L	0.040
Electrical Conductivity	-	-	-	-	1600	µmhos/cm	1.0	1700	µmhos/cm	1.0	1800	µmhos/cm	1.0
Fluoride	4	-	-	-	0.75	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5
Iron	0.3–0.6	-	-	-	**2.5**	mg/L	0.10	0.48	mg/L	0.10	**1**	mg/L	0.10
Lead	0.015	-	-	-	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	-	-	-	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Magnesium	125–150	-	-	-	23	mg/L	0.50	20	mg/L	0.50	25	mg/L	0.50
Manganese	0.1	-	-	-	0.1	mg/L	0.010	0.024	mg/L	0.010	0.035	mg/L	0.010
Mercury	0.002	-	-	-	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	-	-	-	0.021	mg/L	0.020	0.021	mg/L	0.020	0.025	mg/L	0.020
Nickel	0.1	-	-	-	0.015	mg/L	0.030	0.015	mg/L	0.030	0.015	mg/L	0.030
Nitrate	10	-	-	-	0.375	mg/L	0.75	0.375	mg/L	0.75	0.075	mg/L	0.15
Nitrite	1	-	-	-	0.15	mg/L	0.30	0.15	mg/L	0.30	0.05	mg/L	0.10
Phosphorous	-	-	-	-	0.22	mg/L	0.020	0.036	mg/L	0.020	0.041	mg/L	0.020
Potassium	-	-	-	-	17	mg/L	1.0	20	mg/L	1.0	17	mg/L	1.0
pH	6.5–8.5	-	-	-	8.29	pH Units	-	8.28	pH Units	-	8.3	pH Units	-
Selenium	0.05	-	-	-	0.0125	mg/L	0.025	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Silica	-	-	-	-	29.8	mg/L	0.320	34.8	mg/L	0.320	34.8	mg/L	0.320
Silver	0.05	-	-	-	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Sodium	-	-	-	-	250	mg/L	7.5	270	mg/L	7.5	260	mg/L	7.5
Sulfate	250–500	-	-	-	130	mg/L	7.5	130	mg/L	7.5	160	mg/L	7.5
Thallium	0.002	-	-	-	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	-	-	-	270	mg/L as CaCO3	1.0	300	mg/L as CaCO3	1.0	290	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	-	-	-	890	mg/L	25	920	mg/L	25	**1100**	mg/L	25
Total Suspended Solids (TSS)	-	-	-	-	400	mg/L	10	77	mg/L	10	14	mg/L	10
Uranium	30	-	-	-	0.035	mg/L	0.0050	22	µg/L	5.0	0.039	mg/L	0.0050
Zinc	5	-	-	-	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Oxygen Isotopes	-	-	-	-	-12.71	per mil	-	-13.43	per mil	-	-13.67	per mil	-
Deuterium	-	-	-	-	-108.1	per mil	-	-111.6	per mil	-	-112.5	per mil	-
Gross Alpha	15	-	-	-	**24.9 +/- 2.4**	pCi/L	-	**14.1 +/- 2.0**	pCi/L	-	**130.0+/-1.8**	pCi/L	-
Gross Beta[1]	4	-	-	-	20.4 +/- 2.1	pCi/L	-	15.1 +/- 1.9	pCi/L	-	143.4+/-17.3	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L)

Site: Spring 6		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	0.053	mg/L	0.050	0.074	mg/L	0.050	**0.24**	mg/L	0.050	0.16	mg/L	0.10
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Arsenic	0.01	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0077	mg/L	0.0050	0.0025	mg/L	0.0050
Barium	2	0.054	mg/L	0.020	0.042	mg/L	0.020	0.072	mg/L	0.020	0.11	mg/L	0.040
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.001	mg/L	0.0020
Bicarbonate	-	210	mg/L as CaCO3	1.0	210	mg/L as CaCO3	1.0	260	mg/L as CaCO3	1.0	300	mg/L as CaCO3	1.0
Boron	-	2.1	mg/L	0.10	2.2	mg/L	0.10	2.8	mg/L	0.10	4	mg/L	0.20
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.001	mg/L	0.0020
Calcium	-	210	mg/L	2.5	210	mg/L	2.5	280	mg/L	2.5	360	mg/L	1.0
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	**720**	mg/L	5.0	**700**	mg/L	5.0	**850**	mg/L	5.0	**1100**	mg/L	12
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.005	mg/L	0.010
Copper	1–1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	0.02	mg/L	0.040	0.04	mg/L	0.080
Electrical Conductivity	-	3100	µmhos/cm	1.0	3200	µmhos/cm	2.0	3500	µmhos/cm	1.0	4200	µmhos/cm	1.0
Fluoride	4	0.5	mg/L	1.0	0.75	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5
Iron	0.3–0.6	0.05	mg/L	0.10	0.05	mg/L	0.10	**1.3**	mg/L	0.10	0.1	mg/L	0.20
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10	0.1	mg/L	0.20
Magnesium	125–150	55	mg/L	0.50	56	mg/L	0.50	70	mg/L	0.50	100	mg/L	1.0
Manganese	0.1	0.005	mg/L	0.010	0.005	mg/L	0.010	**0.29**	mg/L	0.010	**0.25**	mg/L	0.020
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.024	mg/L	0.020	0.023	mg/L	0.020	0.022	mg/L	0.020	0.02	mg/L	0.040
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	0.015	mg/L	0.030	0.03	mg/L	0.060
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	0.375	mg/L	0.75	0.075	mg/L	0.15
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	0.15	mg/L	0.30	0.05	mg/L	0.10
Phosphorous	-	0.027	mg/L	0.020	0.01	mg/L	0.020	0.034	mg/L	0.020	0.024	mg/L	0.020
Potassium	-	19	mg/L	1.0	17	mg/L	1.0	24	mg/L	1.0	30	mg/L	2.0
pH	6.5–8.5	8.1	pH Units	-	7.91	pH Units	-	7.74	pH Units	-	7.97	pH Units	-
Selenium	0.05	0.0025	mg/L	0.0050	0.031	mg/L	0.025	0.0025	mg/L	0.0050	0.0067	mg/L	0.0050
Silica	-	25.1	mg/L	0.320	24.3	mg/L	0.320	28.8	mg/L	0.320	33.4	mg/L	0.640
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.005	mg/L	0.010
Sodium	-	400	mg/L	7.5	340	mg/L	7.5	420	mg/L	7.5	570	mg/L	15
Sulfate	250–500	290	mg/L	7.5	270	mg/L	7.5	340	mg/L	7.5	500	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	210	mg/L as CaCO3	1.0	210	mg/L as CaCO3	1.0	260	mg/L as CaCO3	1.0	300	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	**1800**	mg/L	25	**1900**	mg/L	25	**2200**	mg/L	25	**2600**	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	5	mg/L	10	22	mg/L	10	5	mg/L	10
Uranium	30	0.068	mg/L	0.0050	0.068	mg/L	0.0050	**89**	µg/L	5.0	0.14	mg/L	0.0050
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020	0.02	mg/L	0.040
Oxygen Isotopes	-	14.05	per mil	-	-14.11	per mil	-	-14.13	per mil	-	-14.21	per mil	-
Deuterium	-	114.6	per mil	-	-114.7	per mil	-	-114.8	per mil	-	-115.6	per mil	-
Gross Alpha	15	**48.2 +/- 3.3**	pCi/L	-	**59.3 +/- 3.7**	pCi/L	-	**66.3 +/- 3.9**	pCi/L	-	**115.2 +/- 5.1**	pCi/L	-
Gross Beta[1]	4	43.2 +/- 9.3	pCi/L	-	23.8 +/- 2.1	pCi/L	-	36.2 +/- 2.7	pCi/L	-	59.5 +/- 3.6	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 7		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	0.07	mg/L	0.050	0.18	mg/L	0.050	-	-	-	0.055	mg/L	0.050
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	0.00125	mg/L	0.0025
Arsenic	0.01	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	0.0025	mg/L	0.0050
Barium	2	0.064	mg/L	0.020	0.058	mg/L	0.020	-	-	-	0.11	mg/L	0.020
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	0.0005	mg/L	0.0010
Bicarbonate	-	200	mg/L as CaCO3	1.0	210	mg/L as CaCO3	1.0	-	-	-	210	mg/L as CaCO3	1.0
Boron	-	2.2	mg/L	0.10	2.7	mg/L	0.10	-	-	-	3.3	mg/L	0.10
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	0.0005	mg/L	0.0010
Calcium	-	230	mg/L	2.5	230	mg/L	2.5	-	-	-	370	mg/L	2.5
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	-	-	-	0.5	mg/L as CaCO3	1.0
Chloride	250–500	**730**	mg/L	5.0	**710**	mg/L	5.0	-	-	-	**1200**	mg/L	12
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	0.0025	mg/L	0.0050
Copper	1–1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	-	-	-	0.02	mg/L	0.040
Electrical Conductivity	-	3000	µmhos/cm	1.0	3100	µmhos/cm	2.0	-	-	-	4200	µmhos/cm	1.0
Fluoride	4	0.5	mg/L	1.0	0.75	mg/L	1.5	-	-	-	0.75	mg/L	1.5
Iron	0.3–0.6	0.05	mg/L	0.10	0.14	mg/L	0.10	-	-	-	0.05	mg/L	0.10
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	-	-	-	0.05	mg/L	0.10
Magnesium	125–150	65	mg/L	0.50	68	mg/L	0.50	-	-	-	100	mg/L	0.50
Manganese	0.1	0.005	mg/L	0.010	0.005	mg/L	0.010	-	-	-	0.005	mg/L	0.010
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	-	-	-	0.000225	mg/L	0.00045
Molybdenum	-	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	0.01	mg/L	0.020
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	-	-	-	0.015	mg/L	0.030
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	-	-	-	0.075	mg/L	0.15
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	-	-	-	0.05	mg/L	0.10
Phosphorous	-	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	0.01	mg/L	0.020
Potassium	-	19	mg/L	1.0	22	mg/L	1.0	-	-	-	28	mg/L	1.0
pH	6.5–8.5	8.14	pH Units	-	8.01	pH Units	-	-	-	-	7.97	pH Units	-
Selenium	0.05	0.0056	mg/L	0.0050	0.0125	mg/L	0.025	-	-	-	0.0082	mg/L	0.0050
Silica	-	24.8	mg/L	0.320	30	mg/L	0.320	-	-	-	27.3	mg/L	0.320
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	0.0025	mg/L	0.0050
Sodium	-	330	mg/L	7.5	300	mg/L	7.5	-	-	-	400	mg/L	7.5
Sulfate	250–500	290	mg/L	7.5	280	mg/L	7.5	-	-	-	420	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	0.0005	mg/L	0.0010
Total Alkalinity	-	200	mg/L as CaCO3	1.0	210	mg/L as CaCO3	1.0	-	-	-	210	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	**1800**	mg/L	25	**1800**	mg/L	25	-	-	-	**2500**	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	10	mg/L	10	-	-	-	32	mg/L	10
Uranium	30	0.091	mg/L	0.0050	0.075	mg/L	0.0050	-	-	-	0.085	mg/L	0.0050
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	0.01	mg/L	0.020
Oxygen Isotopes	-	-14.64	per mil	-	-14.36	per mil	-	-	-	-	-14.75	per mil	-
Deuterium	-	-117.1	per mil	-	-115.8	per mil	-	-	-	-	-118.2	per mil	-
Gross Alpha	15	**81.3 +/- 4.3**	pCi/L	-	**66.6 +/- 4.0**	pCi/L	-	-	-	-	**84.6 +/- 4.3**	pCi/L	-
Gross Beta[1]	4	39.7 +/- 2.4	pCi/L	-	25.3 +/- 2.1	pCi/L	-	-	-	-	49.8 +/- 4.8	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L)

Site: Spring 8		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	0.16	mg/L	0.050	**0.5**	mg/L	0.050	0.068	mg/L	0.050	0.19	mg/L	0.050
Antimony	0.006	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Arsenic	0.01	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Barium	2	0.045	mg/L	0.020	0.038	mg/L	0.020	0.054	mg/L	0.020	0.058	mg/L	0.020
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Bicarbonate	-	310	mg/L as CaCO3	1.0	320	mg/L as CaCO3	1.0	380	mg/L as CaCO3	1.0	370	mg/L as CaCO3	1.0
Boron	-	1.1	mg/L	0.10	1.1	mg/L	0.10	1.5	mg/L	0.10	1.2	mg/L	0.10
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Calcium	-	73	mg/L	0.50	65	mg/L	0.50	73	mg/L	0.50	75	mg/L	0.50
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0
Chloride	250–500	170	mg/L	5.0	170	mg/L	5.0	210	mg/L	5.0	170	mg/L	1.2
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Copper	1–1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	0.02	mg/L	0.040	0.02	mg/L	0.040
Electrical Conductivity	-	1200	µmhos/cm	1.0	1300	µmhos/cm	1.0	1500	µmhos/cm	1.0	1300	µmhos/cm	1.0
Fluoride	4	0.5	mg/L	1.0	0.75	mg/L	1.5	0.75	mg/L	1.5	0.75	mg/L	1.5
Iron	0.3–0.6	0.15	mg/L	0.10	0.42	mg/L	0.10	0.12	mg/L	0.10	0.19	mg/L	0.10
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10	0.05	mg/L	0.10
Magnesium	125–150	14	mg/L	0.50	14	mg/L	0.50	16	mg/L	0.50	14	mg/L	0.50
Manganese	0.1	0.012	mg/L	0.010	0.024	mg/L	0.010	0.005	mg/L	0.010	0.052	mg/L	0.010
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	0.015	mg/L	0.030	0.015	mg/L	0.030
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	0.375	mg/L	0.75	0.075	mg/L	0.15
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	0.15	mg/L	0.30	0.05	mg/L	0.10
Phosphorous	-	0.01	mg/L	0.020	0.03	mg/L	0.020	0.045	mg/L	0.020	0.11	mg/L	0.020
Potassium	-	7.7	mg/L	1.0	7.3	mg/L	1.0	12	mg/L	1.0	8.8	mg/L	1.0
pH	6.5–8.5	8.17	pH Units	-	8.23	pH Units	-	8.04	pH Units	-	8.03	pH Units	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0125	mg/L	0.025	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Silica	-	32.3	mg/L	0.320	33.8	mg/L	0.320	47.7	mg/L	0.320	35.4	mg/L	0.320
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Sodium	-	160	mg/L	1.5	170	mg/L	1.5	280	mg/L	7.5	160	mg/L	1.5
Sulfate	250–500	76	mg/L	7.5	71	mg/L	7.5	89	mg/L	7.5	74	mg/L	7.5
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	310	mg/L as CaCO3	1.0	320	mg/L as CaCO3	1.0	380	mg/L as CaCO3	1.0	370	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	700	mg/L	25	720	mg/L	25	830	mg/L	25	710	mg/L	25
Total Suspended Solids (TSS)	-	5	mg/L	10	11	mg/L	10	5	mg/L	10	5	mg/L	10
Uranium	30	0.04	mg/L	0.0050	0.027	mg/L	0.0050	24	µg/L	5.0	0.02	mg/L	0.0050
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020	0.01	mg/L	0.020
Oxygen Isotopes	-	-13.86	per mil	-	-13.79	per mil	-	-13.84	per mil	-	-14.16	per mil	-
Deuterium	-	-114.7	per mil	-	-113.7	per mil	-	-113.8	per mil	-	-116.1	per mil	-
Gross Alpha	15	**20.1 +/- 2.2**	pCi/L	-	**22.8 +/- 2.4**	pCi/L	-	**17.2 +/- 2.1**	pCi/L	-	**20.1 +/- 2.1**	pCi/L	-
Gross Beta[1]	4	14.5 +/- 1.8	pCi/L	-	12.5 +/- 1.8	pCi/L	-	13.9 +/- 1.8	pCi/L	-	14.6 +/- 1.9	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 10		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	-	-	-	-	-	-	-	-	-	0.077	mg/L	0.050
Antimony	0.006	-	-	-	-	-	-	-	-	-	0.00125	mg/L	0.0025
Arsenic	0.01	-	-	-	-	-	-	-	-	-	0.0025	mg/L	0.0050
Barium	2	-	-	-	-	-	-	-	-	-	0.061	mg/L	0.020
Beryllium	0.004	-	-	-	-	-	-	-	-	-	0.0005	mg/L	0.0010
Bicarbonate	-	-	-	-	-	-	-	-	-	-	240	mg/L as CaCO3	1.0
Boron	-	-	-	-	-	-	-	-	-	-	3.2	mg/L	0.10
Cadmium	0.005	-	-	-	-	-	-	-	-	-	0.0005	mg/L	0.0010
Calcium	-	-	-	-	-	-	-	-	-	-	280	mg/L	2.5
Carbonate	-	-	-	-	-	-	-	-	-	-	0.5	mg/L as CaCO3	1.0
Chloride	250–500	-	-	-	-	-	-	-	-	-	**860**	mg/L	1.2
Chromium	0.1	-	-	-	-	-	-	-	-	-	0.0025	mg/L	0.0050
Copper	1–1.3	-	-	-	-	-	-	-	-	-	0.02	mg/L	0.040
Electrical Conductivity	-	-	-	-	-	-	-	-	-	-	3400	µmhos/cm	1.0
Fluoride	4	-	-	-	-	-	-	-	-	-	0.75	mg/L	1.5
Iron	0.3–0.6	-	-	-	-	-	-	-	-	-	0.05	mg/L	0.10
Lead	0.015	-	-	-	-	-	-	-	-	-	0.00125	mg/L	0.0025
Lithium	-	-	-	-	-	-	-	-	-	-	0.05	mg/L	0.10
Magnesium	125–150	-	-	-	-	-	-	-	-	-	90	mg/L	0.50
Manganese	0.1	-	-	-	-	-	-	-	-	-	0.005	mg/L	0.010
Mercury	0.002	-	-	-	-	-	-	-	-	-	0.000225	mg/L	0.00045
Molybdenum	-	-	-	-	-	-	-	-	-	-	0.01	mg/L	0.020
Nickel	0.1	-	-	-	-	-	-	-	-	-	0.015	mg/L	0.030
Nitrate	10	-	-	-	-	-	-	-	-	-	0.075	mg/L	0.15
Nitrite	1	-	-	-	-	-	-	-	-	-	0.05	mg/L	0.10
Phosphorous	-	-	-	-	-	-	-	-	-	-	0.01	mg/L	0.020
Potassium	-	-	-	-	-	-	-	-	-	-	28	mg/L	1.0
pH	6.5–8.5	-	-	-	-	-	-	-	-	-	7.92	pH Units	-
Selenium	0.05	-	-	-	-	-	-	-	-	-	0.0069	mg/L	0.0050
Silica	-	-	-	-	-	-	-	-	-	-	27	mg/L	0.320
Silver	0.05	-	-	-	-	-	-	-	-	-	0.0025	mg/L	0.0050
Sodium	-	-	-	-	-	-	-	-	-	-	340	mg/L	7.5
Sulfate	250–500	-	-	-	-	-	-	-	-	-	340	mg/L	7.5
Thallium	0.002	-	-	-	-	-	-	-	-	-	0.0005	mg/L	0.0010
Total Alkalinity	-	-	-	-	-	-	-	-	-	-	240	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	-	-	-	-	-	-	-	-	-	**2000**	mg/L	25
Total Suspended Solids (TSS)	-	-	-	-	-	-	-	-	-	-	5	mg/L	10
Uranium	30	-	-	-	-	-	-	-	-	-	0.085	mg/L	0.0050
Zinc	5	-	-	-	-	-	-	-	-	-	0.01	mg/L	0.020
Oxygen Isotopes	-	-	-	-	-	-	-	-	-	-	-14.68	per mil	-
Deuterium	-	-	-	-	-	-	-	-	-	-	-117.7	per mil	-
Gross Alpha	15	-	-	-	-	-	-	-	-	-	**73.1+/-4.0**	pCi/L	-
Gross Beta[1]	4	-	-	-	-	-	-	-	-	-	51.1+/-3.4	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L).

Site: Spring 12		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	**0.53**	mg/L	0.050	1.3	mg/L	0.050	-	-	-	-	-	-
Antimony	0.006	0.00125	mg/L	0.0025	0.006	mg/L	0.012	-	-	-	-	-	-
Arsenic	0.01	0.0025	mg/L	0.0050	0.005	mg/L	0.0050	-	-	-	-	-	-
Barium	2	0.049	mg/L	0.020	0.042	mg/L	0.020	-	-	-	-	-	-
Beryllium	0.004	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Bicarbonate	-	410	mg/L as CaCO3	1.0	420	mg/L as CaCO3	1.0	-	-	-	-	-	-
Boron	-	2.1	mg/L	0.10	2.1	mg/L	0.10	-	-	-	-	-	-
Cadmium	0.005	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Calcium	-	90	mg/L	0.50	85	mg/L	0.50	-	-	-	-	-	-
Carbonate	-	0.5	mg/L as CaCO3	1.0	0.5	mg/L as CaCO3	1.0	-	-	-	-	-	-
Chloride	250–500	420	mg/L	5.0	380	mg/L	5.0	-	-	-	-	-	-
Chromium	0.1	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Copper	1–1.3	0.02	mg/L	0.040	0.02	mg/L	0.040	-	-	-	-	-	-
Electrical Conductivity	-	2300	µmhos/cm	1.0	2200	µmhos/cm	1.0	-	-	-	-	-	-
Fluoride	4	1.3	mg/L	1.0	0.75	mg/L	1.5	-	-	-	-	-	-
Iron	0.3–0.6	0.52	mg/L	0.10	**1.4**	mg/L	0.10	-	-	-	-	-	-
Lead	0.015	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025	-	-	-	-	-	-
Lithium	-	0.05	mg/L	0.10	0.05	mg/L	0.10	-	-	-	-	-	-
Magnesium	125–150	35	mg/L	0.50	32	mg/L	0.50	-	-	-	-	-	-
Manganese	0.1	0.022	mg/L	0.010	**0.11**	mg/L	0.010	-	-	-	-	-	-
Mercury	0.002	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	-	-	-	-	-	-
Molybdenum	-	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Nickel	0.1	0.015	mg/L	0.030	0.015	mg/L	0.030	-	-	-	-	-	-
Nitrate	10	0.375	mg/L	0.75	0.375	mg/L	0.75	-	-	-	-	-	-
Nitrite	1	0.15	mg/L	0.30	0.15	mg/L	0.30	-	-	-	-	-	-
Phosphorous	-	0.047	mg/L	0.020	0.059	mg/L	0.020	-	-	-	-	-	-
Potassium	-	18	mg/L	1.0	18	mg/L	1.0	-	-	-	-	-	-
pH	6.5–8.5	8.08	pH Units	-	7.95	pH Units	-	-	-	-	-	-	-
Selenium	0.05	0.0025	mg/L	0.0050	0.0125	mg/L	0.025	-	-	-	-	-	-
Silica	-	30.6	mg/L	0.320	35.8	mg/L	0.320	-	-	-	-	-	-
Silver	0.05	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050	-	-	-	-	-	-
Sodium	-	370	mg/L	7.5	340	mg/L	7.5	-	-	-	-	-	-
Sulfate	250–500	160	mg/L	7.5	150	mg/L	7.5	-	-	-	-	-	-
Thallium	0.002	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010	-	-	-	-	-	-
Total Alkalinity	-	410	mg/L as CaCO3	1.0	420	mg/L as CaCO3	1.0	-	-	-	-	-	-
Total Dissolved Solids (TDS)	500–1000	**1300**	mg/L	25	**1400**	mg/L	25	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	17	mg/L	10	120	mg/L	10	-	-	-	-	-	-
Uranium	30	0.093	mg/L	0.0050	0.084	mg/L	0.0050	-	-	-	-	-	-
Zinc	5	0.01	mg/L	0.020	0.01	mg/L	0.020	-	-	-	-	-	-
Oxygen Isotopes	-	-14.04	per mil	-	-13.94	per mil	-	-	-	-	-	-	-
Deuterium	-	-115.7	per mil	-	-114.7	per mil	-	-	-	-	-	-	-
Gross Alpha	15	**71.3 +/- 3.9**	pCi/L	-	**74.0 +/- 4.2**	pCi/L	-	-	-	-	-	-	-
Gross Beta[1]	4	31.5 +/- 2.6	pCi/L	-	38.3 +/- 2.8	pCi/L	-	-	-	-	-	-	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L)

Site: Matt's Spring		Quarter 1			Quarter 2			Quarter 3			Quarter 4		
Constituent	**Winnemucca BLM Analyte Limits (reported units)**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**	**Results**	**Units**	**Reporting Limit**
Aluminum	0.05–0.2	-	-	-	**1.5**	mg/L	0.10	**5.9**	mg/L	0.050	**0.93**	mg/L	0.050
Antimony	0.006	-	-	-	0.006	mg/L	0.012	0.0042	mg/L	0.0025	0.003	mg/L	0.0025
Arsenic	0.01	-	-	-	**0.4**	mg/L	0.0050	**0.41**	mg/L	0.0050	**0.39**	mg/L	0.0050
Barium	2	-	-	-	0.02	mg/L	0.040	0.12	mg/L	0.020	0.026	mg/L	0.020
Beryllium	0.004	-	-	-	0.001	mg/L	0.0020	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Bicarbonate	-	-	-	-	480	mg/L as CaCO3	1.0	560	mg/L as CaCO3	1.0	520	mg/L as CaCO3	1.0
Boron	-	-	-	-	8.1	mg/L	0.20	8.5	mg/L	0.20	8.9	mg/L	0.50
Cadmium	0.005	-	-	-	0.001	mg/L	0.0020	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Calcium	-	-	-	-	3.8	mg/L	1.0	8.8	mg/L	0.50	2.5	mg/L	0.50
Carbonate	-	-	-	-	210	mg/L as CaCO3	1.0	130	mg/L as CaCO3	1.0	180	mg/L as CaCO3	1.0
Chloride	250–500	-	-	-	**700**	mg/L	10	**720**	mg/L	10	**680**	mg/L	2.5
Chromium	0.1	-	-	-	0.005	mg/L	0.010	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Copper	1–1.3	-	-	-	0.04	mg/L	0.080	0.02	mg/L	0.040	0.02	mg/L	0.040
Electrical Conductivity	-	-	-	-	4600	µmhos/cm	2.0	4300	µmhos/cm	1.0	4000	µmhos/cm	1.0
Fluoride	4	-	-	-	**6.9**	mg/L	3.0	**8.1**	mg/L	3.0	**7.4**	mg/L	3.0
Iron	0.3–0.6	-	-	-	**1.2**	mg/L	0.20	**5.5**	mg/L	0.10	**0.78**	mg/L	0.10
Lead	0.015	-	-	-	0.006	mg/L	0.012	0.00125	mg/L	0.0025	0.00125	mg/L	0.0025
Lithium	-	-	-	-	0.1	mg/L	0.20	0.05	mg/L	0.10	0.05	mg/L	0.10
Magnesium	125–150	-	-	-	0.5	mg/L	1.0	3.2	mg/L	0.50	0.67	mg/L	0.50
Manganese	0.1	-	-	-	0.048	mg/L	0.020	**0.21**	mg/L	0.010	0.038	mg/L	0.010
Mercury	0.002	-	-	-	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045	0.000225	mg/L	0.00045
Molybdenum	-	-	-	-	0.02	mg/L	0.040	0.01	mg/L	0.020	0.01	mg/L	0.020
Nickel	0.1	-	-	-	0.03	mg/L	0.060	0.015	mg/L	0.030	0.015	mg/L	0.030
Nitrate	10	-	-	-	0.75	mg/L	1.5	0.75	mg/L	1.5	0.15	mg/L	0.30
Nitrite	1	-	-	-	0.3	mg/L	0.60	0.1	mg/L	0.20	0.1	mg/L	0.20
Phosphorous	-	-	-	-	0.37	mg/L	0.020	0.68	mg/L	0.020	0.3	mg/L	0.020
Potassium	-	-	-	-	32	mg/L	2.0	41	mg/L	1.0	32	mg/L	1.0
pH	6.5–8.5	-	-	-	**9.28**	pH Units	-	**8.98**	pH Units	-	**9.21**	pH Units	-
Selenium	0.05	-	-	-	0.0125	mg/L	0.025	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Silica	-	-	-	-	39.3	mg/L	0.640	64.9	mg/L	0.320	37.9	mg/L	0.320
Silver	0.05	-	-	-	0.005	mg/L	0.010	0.0025	mg/L	0.0050	0.0025	mg/L	0.0050
Sodium	-	-	-	-	970	mg/L	15	750	mg/L	15	840	mg/L	7.5
Sulfate	250–500	-	-	-	360	mg/L	15	380	mg/L	15	350	mg/L	15
Thallium	0.002	-	-	-	**0.0025**	mg/L	0.0050	0.0005	mg/L	0.0010	0.0005	mg/L	0.0010
Total Alkalinity	-	-	-	-	690	mg/L as CaCO3	1.0	690	mg/L as CaCO3	1.0	700	mg/L as CaCO3	1.0
Total Dissolved Solids (TDS)	500–1000	-	-	-	**2500**	mg/L	25	**2200**	mg/L	25	**2100**	mg/L	25
Total Suspended Solids (TSS)	-	-	-	-	38	mg/L	10	510	mg/L	10	59	mg/L	10
Uranium	30	-	-	-	0.0125	mg/L	0.025	2.5	µg/L	5.0	0.0025	mg/L	0.0050
Zinc	5	-	-	-	0.02	mg/L	0.040	0.022	mg/L	0.020	0.01	mg/L	0.020
Oxygen Isotopes	-	-	-	-	-14.14	per mil	-	-14.45	per mil	-	-14.42	per mil	-
Deuterium	-	-	-	-	-113.7	per mil	-	-114.8	per mil	-	-115	per mil	-
Gross Alpha	15	-	-	-	<2.5	pCi/L	-	1.2	pCi/L	-	2.7+/-1.1	pCi/L	-
Gross Beta[1]	4	-	-	-	44.1 +/- 4.4	pCi/L	-	28.5 +/- 2.7	pCi/L	-	29.0+/-4.1	pCi/L	-

BOLD represents analyte exceedance

Constituents below the detection level were given a result value of one-half the WetLab reporting limit and shaded gray.

[1] Gross Beta analyte limits are in millirem (mrem) while laboratory data is reported in Picocuries per liter (pCi/L)

Appendix B: Surface Water Monitoring Site Photographs


DIRECTION
85 deg(T)
11n 299940
4503860
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 1
2022-03-22
10:21:03-07:00


DIRECTION
84 deg(T)
11n 299941
4503860
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 1
2022-03-22
10:21:15-07:00


DIRECTION
132 deg(T)
11n 299962
4503868
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 2
2022-03-22
10:02:19-07:00

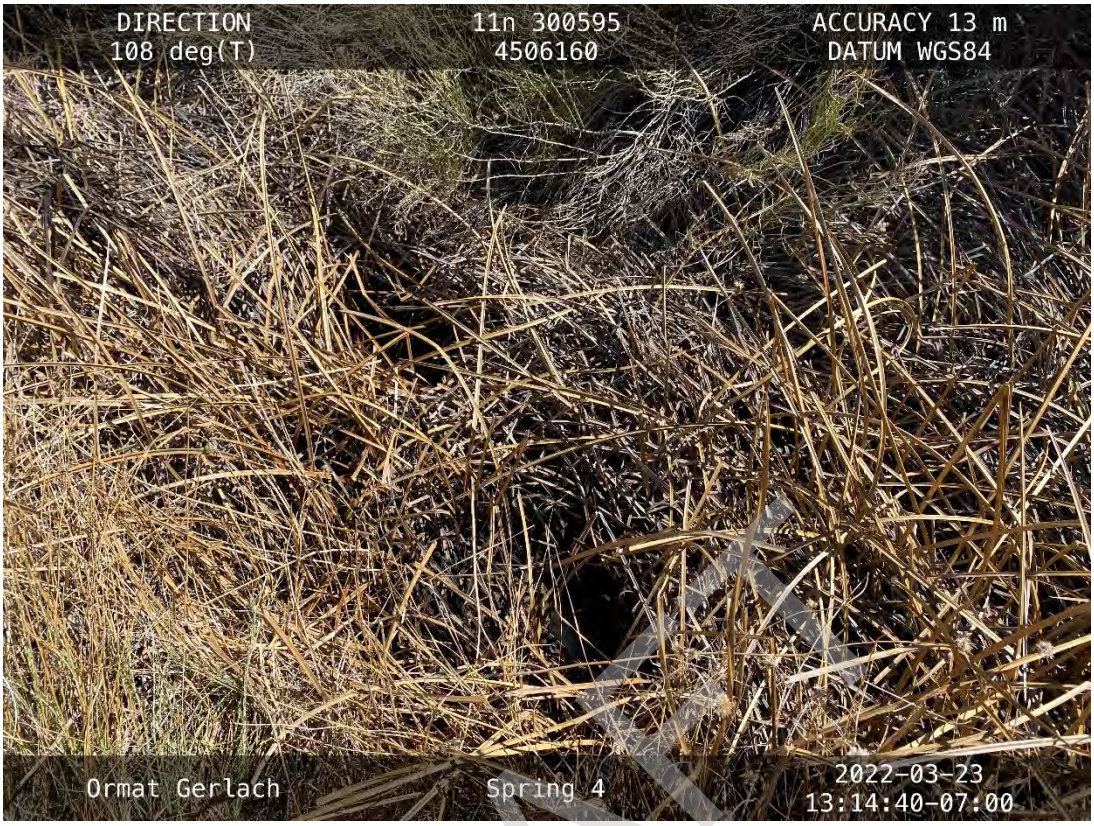

DIRECTION
133 deg(T)
11n 299961
4503870
ACCURACY 12 m
DATUM WGS84
Ormat Gerlach
Spring 2
2022-03-22
10:03:30-07:00


DIRECTION
55 deg(T)
11n 299989
4503903
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 3
2022-03-22
09:42:33-07:00


DIRECTION
52 deg(T)
11n 299991
4503904
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 3
2022-03-22
09:43:09-07:00


DIRECTION
81 deg(T)
11n 300582
4506139
ACCURACY 8 m
DATUM WGS84
Ormat Gerlach
Spring 4
2022-03-23
12:57:22-07:00


DIRECTION
43 deg(T)
11n 300588
4506136
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 4
2022-03-23
12:57:47-07:00


DIRECTION
108 deg(T)
11n 300595
4506160
ACCURACY 13 m
DATUM WGS84
Ormat Gerlach
Spring 4
2022-03-23
13:14:40-07:00


DIRECTION
341 deg(T)
11n 300459
4507852
ACCURACY 7 m
DATUM WGS84
Ormat Gerlach
Spring 5
2022-03-23
12:16:27-07:00


DIRECTION
343 deg(T)
11n 300460
4507852
ACCURACY 6 m
DATUM WGS84
Ormat Gerlach
Spring 5
2022-03-23
12:16:31-07:00


DIRECTION
163 deg(T)
11n 300873
4509177
ACCURACY 9 m
DATUM WGS84
Ormat Gerlach
Spring 6
2022-03-22
17:12:41-07:00


DIRECTION
126 deg(T)
11n 300883
4509179
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 6
2022-03-22
17:13:05-07:00


DIRECTION
311 deg(T)
11n 300885
4509180
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 6
2022-03-22
17:13:18-07:00


DIRECTION
237 deg(T)
11n 300314
4509371
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 7
2022-03-22
15:07:57-07:00


DIRECTION
74 deg(T)
11n 300314
4509369
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 7
2022-03-22
15:08:07-07:00


DIRECTION
336 deg(T)
11n 301034
4509398
ACCURACY 7 m
DATUM WGS84
Ormat Gerlach
Spring 8
2022-03-23
10:30:13-07:00


DIRECTION
348 deg(T)
11n 301025
4509405
ACCURACY 10 m
DATUM WGS84
Ormat Gerlach
Spring 8
2022-03-23
10:54:29-07:00


DIRECTION
304 deg(T)
11n 300546
4509424
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 9
2022-03-22
15:51:31-07:00


DIRECTION
134 deg(T)
11n 300545
4509421
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 9
2022-03-22
15:51:59-07:00


DIRECTION
332 deg(T)
11n 300546
4509427
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 9
2022-03-22
15:57:58-07:00


DIRECTION
106 deg(T)
11n 300341
4509515
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 10
2022-03-22
14:51:52-07:00


DIRECTION
106 deg(T)
11n 300339
4509517
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 10
2022-03-22
14:52:02-07:00


DIRECTION
292 deg(T)
11n 300332
4509517
ACCURACY 10 m
DATUM WGS84
Ormat Gerlach
Spring 10
2022-03-22
14:52:35-07:00


DIRECTION
286 deg(T)
11n 300349
4509705
ACCURACY 13 m
DATUM WGS84
Ormat Gerlach
Spring 11
2022-03-22
14:25:53-07:00


DIRECTION
105 deg(T)
11n 300357
4509708
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 11
2022-03-22
14:26:23-07:00


DIRECTION
146 deg(T)
11n 300249
4509799
ACCURACY 8 m
DATUM WGS84
Ormat Gerlach
Spring 12
2022-03-22
13:35:06-07:00


DIRECTION
144 deg(T)
11n 300249
4509799
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Spring 12
2022-03-22
13:35:11-07:00


DIRECTION
350 deg(T)
11n 295736
4503004
ACCURACY 6 m
DATUM WGS84
Ormat Gerlach
Matts Spring
2022-03-23
13:46:31-07:00


DIRECTION
71 deg(T)
11n 295735
4503004
ACCURACY 5 m
DATUM WGS84
Ormat Gerlach
Matts Spring
2022-03-23
13:46:34-07:00


DIRECTION
10 deg(T)
11n 295808
4502966
ACCURACY 6 m
DATUM WGS84
Ormat Gerlach
Matts Spring
2022-03-23
14:01:56-07:00