

### DAILY SAMPLING RIG INSPECTION SHEET

Date: 7/10/2023

Completed By:

Emily McGuire

<b>Pre Sampling Safety Meeting-</b>	Time: 0730
Wells to be sampled today: APS	
Dangers and hazards with wells to be sampled: vaults/Hex	
Name: Emily McGuire	Signature: E. McGuire
Name: John Sapp	Signature: John Sapp

<b>Sampling Equipment Inspection-</b>		Time: 0732
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0735
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		



## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 7/10/2023

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0742 Em
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.3	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0738 Em
Calibration Value	7.00	6.03	
Buffer Temp	25.1	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
E2-5	6.55	29.0	6.48	29.5

QC's
6.90
Closing QC
6.96

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: 





## DAILY SAMPLING RIG INSPECTION SHEET

Date: 7/11/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0646
Wells to be sampled today: IWF-West		
Dangers and hazards with wells to be sampled: Hex		
Name: Emily McGuire		Signature: E. McGuire
Name:		Signature:

<b>Sampling Equipment Inspection-</b>		Time: 0648	
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>	
<input type="checkbox"/> Coolers			
<input type="checkbox"/> Forms			
<input type="checkbox"/> pH probe (calibrated)			
<input type="checkbox"/> DTW meter			
<input type="checkbox"/> Vault Keys			
<input type="checkbox"/> Water			
<input type="checkbox"/> PPE			

<b>Vehicle Inspection-</b>		Time: 0650	
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>	
<input type="checkbox"/> Tires and Lug Nuts			
<input type="checkbox"/> Steering Wheel			
<input type="checkbox"/> Lights			
<input type="checkbox"/> Horn			
<input type="checkbox"/> Radiator Fluid			
<input type="checkbox"/> Engine Oil			
<input type="checkbox"/> Parking Brake			
<input type="checkbox"/> Brakes and Brake Fluid			
Check Gauges			
<input type="checkbox"/> Oil Light			
<input type="checkbox"/> Battery Light			





# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 7/11/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0657 gmm
Temp Comp Value	25	
Calibration Value	1287	
Standard Temp	25.1	
Changed Buffers		Yes <input type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0654 Em
Calibration Value	7.01	5.98	
Buffer Temp	25.0	25.2	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-S	6.24	30.0	6.27	30.0

QC's
6.97
Closing QC
6.96

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:







DAILY MAINTENANCE AND CALIBRATION LOG

Date: 7/13/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0456 gm
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.2	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0459 gm
Calibration Value	7.00	5.99	
Buffer Temp	25.0	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-X	8.66	28.4	8.66	28.5
1-T	16.04	30.9	10.05	30.8
1-1	6.68	28.1	6.70	28.3

QC's
6.97
6.99
6.95
Closing QC
6.97

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. Muzj

### DAILY SAMPLING RIG INSPECTION SHEET

Date: 7/13/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0438
Wells to be sampled today: IWF <del>to</del> Middle / East / Borman		
Dangers and hazards with wells to be sampled: Hex / Driving hazards		
Name: Emily McGuire	Signature: E. McGuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0433
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0436
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 7/6/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0700 EM
Temp Comp Value	25	
Calibration Value	1288	
Standard Temp	24.2	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0655 EM
Calibration Value	7.00	6.00	
Buffer Temp	24.8	24.6	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
PC-119	2.85	21.5	2.85	21.8
APT-4	6.72	26.6	6.72	26.6

QC's
7.01
6.95
Closing QC
6.97

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. M. [Signature]

# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie and Chris Stubbs, Ramboll

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**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, John Crowther, John Hunt, Emeryville Lab Data, Ramboll  
Dana Grady, Tetra Tech

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**From:** Jesse Bunkers and Dylan Begley, Tetra Tech

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**Date:** August 4, 2023

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**Subject:** July 2023 Monthly Las Vegas Wash Surface Water Sampling  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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## MONTHLY SURFACE WATER SAMPLING ACTIVITIES

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the July 2023 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The 10 surface water sample locations described in the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3*, dated December 2022, are shown on **Figure 1**. Tetra Tech collected 30 independent samples from 10 sample locations within the Las Vegas Wash (the Wash) and a channel flowing into the Wash (C-1 Channel) on July 7 and July 10, 2023. Sample collection within the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximated mid-water depth using the discrete hand-sample technique described in the SAP. During sampling of the C-1 Channel, the channel width, depth of water, and flow rate were measured and documented for each sample location in the surface water sampling logs.

Samples were stored in coolers at 4 degrees Celsius and transferred under chain-of-custody documentation to Eurofins Environment Testing Southwest (Eurofins) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids (TDS) using EPA Methods 314.0, 300.1B, and SM2540C, respectively. Analysis of TDS is not included in the SAP; however, February 9, 2023, discussions with Ramboll identified that monthly surface water samples should be analyzed for TDS and the SAP tables will be revised to reflect this addition. The Eurofins Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the July 2023 sampling event are as follows:



- Field personnel were not able to sample the designated location for LVW5.3-2 due to the presence of a sandbar. An alternative sample location was selected for LVW5.3-2. The sample was collected as close as possible to the original sample location, approximately 17 feet west of the original sample location and recorded with a handheld GPS at coordinates: 36.09006° N, -114.97336° W.
- Field personnel were not able to sample the designated location for LVW5.3-6 due to encroachment of bank vegetation that hindered access to the designated location. An alternative sample location was selected for LVW5.3-6. The sample was collected as close as possible to the original sample location, approximately 13 feet west of the original sample location and recorded with a handheld GPS at coordinates: 36.09065° N, -114.97401° W.
- Field personnel were not able to sample the designated location for LVW4.2-4 due to encroachment of bank vegetation that precluded access to the designated location. The sample was collected as close as possible to the original sample location, approximately 11 feet south of the original sample location and recorded with a handheld GPS at coordinates: 36.09507° N, -114.95475° W.
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.
- Water quality field parameters were inadvertently not collected at the C1-E channel. A turbidity measurement was inadvertently not collected at sampling location LVW 7.2.

Surface water sampling logs are provided as Attachment A. Field investigation daily logs and the calibration certification form are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.

## CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the July 2023 Monthly Las Vegas Wash Surface Water Sampling Summary.



**Christopher Hayes, CEM**  
Environmental Engineer  
Tetra Tech, Inc.

Nevada CEM Certificate Number: EM2499  
Nevada CEM Expiration Date: December 15, 2024

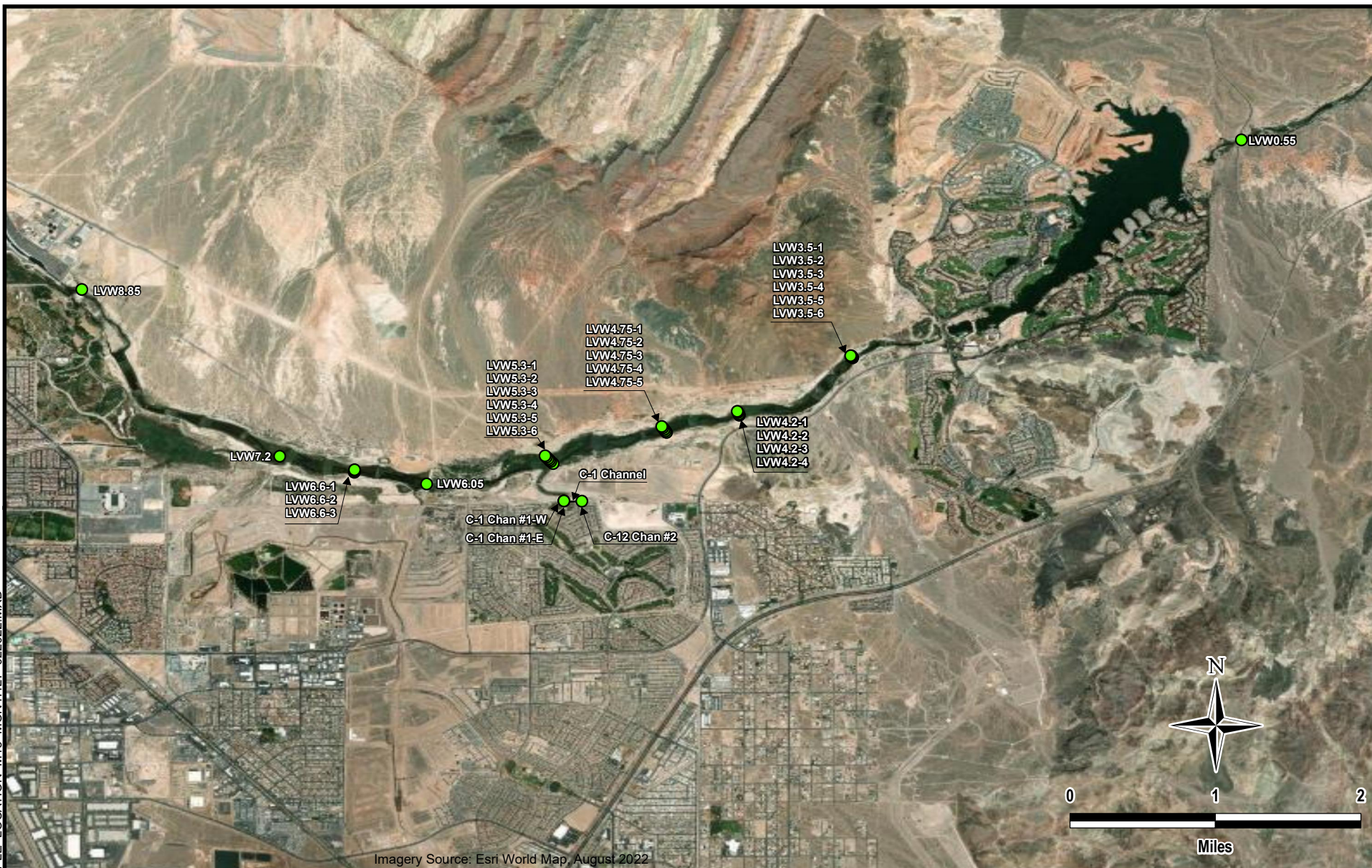
Date

8/4/23



**Figure**

D:\INERTM15\MXD\SAMPLE LOCATION M15 MONTHLY 022022.MXD



Imagery Source: Esri World Map, August 2022

**Legend**

- Monthly Sample Locations

**Tt TETRA TECH**

www.tetratech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH MONTHLY SAMPLING  
HENDERSON, NEVADA

**LAS VEGAS WASH SAMPLE POINT LOCATIONS**

Project No.: 117-7502023

Date: FEBRUARY 13, 2023

Designed By: AAM

Figure No.  
**1**

# **Attachment A**

## **Surface Water Sampling Logs**





SURFACE WATER SAMPLING LOG

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 7/7/2023
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Field Samplers: J. Bunkers, J. Heintz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
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Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
12:30	LVW 3.5-1	2.4	1.2	31.7	7.75	2.128	9.28	227.9	2.6	Clear	None
12:30	LVW 3.5-2	2.4	1.2	30.5	8.35	2.219	9.61	231.2	3.2	Clear	None
12:30	LVW 3.5-3	2.4	1.2	30.0	8.42	2.200	9.48	234.4	4.8	Clear	None
12:30	LVW 3.5-4	2.4	1.2	30.7	8.48	2.177	9.72	236.7	8.9	Clear	None
12:30	LVW 3.5-5	3.0	1.5	30.6	8.51	2.172	9.96	239.1	2.8	Clear	None
12:30	LVW 3.5-6	3.6	1.8	31.0	8.44	2.167	9.37	239.8	8.1	Clear	None
13:30	LVW 4.2-1	5.4	2.7	31.3	8.36	2.260	7.67	221.6	2.5	Clear	None
13:30	LVW 4.2-2	2.6	1.3	31.7	8.42	2.259	7.96	226.4	0.8	Clear	None
13:30	LVW 4.2-3	7.2	3.6	32.0	8.43	2.267	7.72	227.5	2.2	Clear	None
13:30	LVW 4.2-4	4.2	2.1	33.1	8.41	2.225	7.71	230.1	8.7	Clear	None
14:30	LVW 4.75-1	2.4	1.2	31.4	8.48	2.296	8.19	234.8	4.3	Clear	None
14:30	LVW 4.75-2	3.0	1.5	31.4	8.56	2.336	7.89	232.6	3.6	Clear	None
14:30	LVW 4.75-3	2.6	1.3	31.8	8.64	2.260	8.24	231.9	1.6	Clear	None
14:30	LVW 4.75-4	3.2	1.6	32.5	8.67	2.243	8.33	230.9	1.4	Clear	None
14:30	LVW 4.75-5	2.6	1.3	32.3	8.59	2.252	8.27	231.2	2.2	Clear	None

QA/QC Samples/ID:	QA/QC Samples/ID:	QA/QC Samples/ID:
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QA/QC Sample Time:	QA/QC Sample Time:	QA/QC Sample Time:
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<b>C1-E</b> Flow (L/s): _____ Width (ft): _____ Depth (ft): _____	<b>C1-W</b> Flow (L/s): _____ Width (ft): _____ Depth (ft): _____	<b>C-12</b> Flow (L/s): _____ Width (ft): _____ Depth (ft): _____
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**Observations/Comments:**



**SURFACE WATER SAMPLING LOG**

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 7/10/2023
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Field Samplers: J. Bunkers, J. Heintz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
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Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
09:00	C1-E	0.0	0.0							Clear	None
09:00	C1-W	0.0	0.0	28.8	7.79	4.606	8.21	261.8	1.3	Clear	None
08:00	LVW 0.55	1.4	0.7	27.4	8.18	1.058	7.95	202.3	2.4	Clear	None
10:15	LVW 5.3-1	1.6	0.8	32.7	8.21	2.374	7.65	221.8	1.2	Clear	None
10:15	LVW 5.3-2	1.4	0.7	32.0	8.19	2.235	7.73	218.8	1.7	Clear	None
10:15	LVW 5.3-3	1.4	0.7	31.1	8.19	2.208	7.80	217.0	1.3	Clear	None
10:15	LVW 5.3-4	1.2	0.6	31.2	8.17	2.225	7.62	214.5	1.6	Clear	None
10:15	LVW 5.3-5	2.0	1.0	36.4	8.10	2.202	7.43	207.0	1.3	Clear	None
10:15	LVW 5.3-6	2.4	1.2	32.9	8.21	2.262	7.74	199.8	2.0	Clear	None
11:15	LVW 6.05	2.2	0.5	38.5	8.52	2.204	8.77	170.0	2.0	Clear	None
12:30	LVW 6.6-1	1.8	0.9	34.0	8.55	2.107	7.88	155.0	1.4	Clear	None
12:30	LVW 6.6-2	3.4	1.7	31.8	8.54	2.087	8.01	160.3	1.2	Clear	None
12:30	LVW 6.6-3	2.8	1.4	31.3	8.45	1.028	7.96	161.6	1.2	Clear	None
13:15	LVW 7.2	2.0	1.0	35.5	8.75	1.513	9.63	175.5		Clear	None
14:15	LVW 8.85	1.6	0.8	35.0	7.82	1.860	7.80	166.4	0.6	Clear	None

QA/QC Samples/ID: LVW0.55-0.7-20230710-FD	QA/QC Samples/ID: LVW0.55-20230710-FB	QA/QC Samples/ID: LVW6.05-0.5-20230710-FD
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QA/QC Sample Time: 8:00	QA/QC Sample Time: 8:00	QA/QC Sample Time: 11:15
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QA/QC Samples/ID: LVW6.05-20230710-FB	QA/QC Samples/ID: LVW7.2-1.0-20230710-FD	QA/QC Samples/ID: LVW7.2-20230710-FB
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QA/QC Sample Time: 11:15	QA/QC Sample Time: 13:15	QA/QC Sample Time: 13:15
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<b>C1-E</b>	Flow (L/s): 0.12	<b>C1-W</b>	Flow (L/s): 1.45	<b>C-12</b>	Flow (L/s): No Flow
	Width (ft): 0.46    Depth (ft): 0.03		Width (ft): 0.72    Depth (ft): 0.15		Width (ft): _____    Depth (ft): _____

**Observations/Comments: C1-E field parameters inadvertently not collected.**

**Attachment B**  
**Field Investigation Daily Logs**





Task Name: LVW Surface Water Sampling

Task Manager: Dylan Begley

Date: 7/7/23

Field Personnel: JB, JH

Task No: M15

Location: Las Vegas Wash

Tablet #: 1

Reported by: J. Bunkers

Weather Conditions: 105°F Sunny, Calm

Total Vehicle Mileage: 20

Task Visitors / Subcontractors: None

Matters of Safety:

Heat Stress

Problems / Concerns and Corrective Actions Taken

None

Time	Activities
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0700	Arrive at office, gather supplies, move to M18.
1200	Arrive at LVW 3.5-1 - 6, wait for J. Bunkers.
1230	Collect sample at LVW 3.5-1 - 6.
1330	Collect samples LVW 4.2-1 thru -4
1430	Collect samples LVW 4.75-1 thru -5.
1500	Arrive at office, drop samples to Test America.

Coordinates for 4.2-4: 36.09507 N, -114.95475 W.

- LVW8.85: 36.107231, -115.019994
- LVW7.2: 36.090604, -115.000302
- LVW6.6-1: 36.089005, -114.992888
- LVW6.6-2: 36.089155, -114.992828
- LVW6.6-3: 36.089265, -114.992858
- LVW6.05: 36.087849, -114.985682
- LVW5.3-1: 36.089867, -114.973112
- LVW5.3-2: 36.090072, -114.973322
- LVW5.3-3: 36.090218, -114.973467
- LVW5.3-4: 36.090367, -114.973612
- LVW5.3-5: 36.090513, -114.973758

- LVW5.3-6: 36.090660, -114.973903
- C1-E: 36.086147, -114.972022
- C1-W: 36.086147, -114.972022
- C12: 36.086125, -114.970255 *No Flow*
- LVW4.75-1: 36.092979, -114.961810
- LVW4.75-2: 36.093130, -114.961928
- LVW4.75-3: 36.093277, -114.962051
- LVW4.75-4: 36.093431, -114.962174
- LVW4.75-5: 36.093580, -114.962301
- LVW4.2-1: 36.094695, -114.954570 *Modified*

- LVW4.2-2: 36.094817, -114.954612
- LVW4.2-3: 36.094978, -114.954716
- LVW4.2-4: 36.095108, -114.954806 *Modified*
- LVW3.5-1: 36.100422, -114.943298
- LVW3.5-2: 36.100459, -114.943329
- LVW3.5-3: 36.100548, -114.943390
- LVW3.5-4: 36.100585, -114.943405
- LVW3.5-5: 36.100606, -114.943451
- LVW3.5-6: 36.100645, -114.943493
- LVW0.55: 36.122158, -114.904631

Prepared by: Jesse Bunkers

Signature: *[Signature]*

Date: 7/7/23



Task Name: LVW Surface Water Sampling

Task Manager: Dylan Begley

Date: 7/10/23

Field Personnel: ABC, JH

Task No: M15

Location: Las Vegas Wash

Tablet #: 1

Reported by: JH

Weather Conditions: sunny, calm

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: none

Matters of Safety: dehydration, drowning

Problems / Concerns and Corrective Actions Taken: none

Time	Activities																					
0700	Arrive at office, gather supplies, mobeto Lake Mead Natl. Park																					
0800	Collect sample <u>LVW 0.55 + FD + FB.</u>																					
0845	Confirm C-12 is dry.																					
0900	Sample C1-E + C1-W																					
	<table border="1"> <thead> <tr> <th></th> <th>width</th> <th>depth</th> <th>V<sub>1</sub> (L)</th> <th>T<sub>1</sub> (S)</th> <th>V<sub>2</sub></th> <th>T<sub>2</sub></th> </tr> </thead> <tbody> <tr> <td>C1-E</td> <td>140</td> <td>80</td> <td>0.55</td> <td>4.68</td> <td>0.7</td> <td>5.45</td> </tr> <tr> <td>C1-W</td> <td>220</td> <td>45</td> <td>2</td> <td>1.38</td> <td>2.2</td> <td>2.25</td> </tr> </tbody> </table>		width	depth	V <sub>1</sub> (L)	T <sub>1</sub> (S)	V <sub>2</sub>	T <sub>2</sub>	C1-E	140	80	0.55	4.68	0.7	5.45	C1-W	220	45	2	1.38	2.2	2.25
	width	depth	V <sub>1</sub> (L)	T <sub>1</sub> (S)	V <sub>2</sub>	T <sub>2</sub>																
C1-E	140	80	0.55	4.68	0.7	5.45																
C1-W	220	45	2	1.38	2.2	2.25																
1015	sample <u>5.3-1 thru 6.</u>																					
1115	sample <u>LVW 6.05 + FD + FB</u>																					
1230	sample <u>6.6-1 thru 3.</u> <u>5.3-2 = 36.09006°N, -114.97336°W</u>																					
1315	sample <u>LVW 7.2 + FB + FD</u> <u>5.3-6 = 36.09065°N, -114.97401°W</u>																					
1415	sample <u>LVW 8.35</u>																					
1500	Arrive at office, drop samples, upload forms, scan papers into server, put equipment away.																					
1630	Done for day																					

- |  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> LVW8.85: 36.107231, -115.019994                  | <input checked="" type="checkbox"/> LVW5.3-6: 36.090660, -114.973903 <b>Modified</b> | <input type="checkbox"/> LVW4.2-2: 36.094817, -114.954612           |
| <input checked="" type="checkbox"/> LVW7.2: 36.090604, -115.000302                   | <input checked="" type="checkbox"/> C1-E: 36.086147, -114.972022                     | <input type="checkbox"/> LVW4.2-3: 36.094978, -114.954716           |
| <input checked="" type="checkbox"/> LVW6.6-1: 36.089005, -114.992888                 | <input checked="" type="checkbox"/> C1-W: 36.086147, -114.972022                     | <input type="checkbox"/> LVW4.2-4: 36.095108, -114.954806           |
| <input checked="" type="checkbox"/> LVW6.6-2: 36.089155, -114.992828                 | <input checked="" type="checkbox"/> C12: 36.086125, -114.970255 <b>No Flow</b>       | <input type="checkbox"/> LVW3.5-1: 36.100422, -114.943298           |
| <input checked="" type="checkbox"/> LVW6.6-3: 36.089265, -114.992858                 | <input type="checkbox"/> LVW4.75-1: 36.092979, -114.961810                           | <input type="checkbox"/> LVW3.5-2: 36.100459, -114.943329           |
| <input checked="" type="checkbox"/> LVW6.05: 36.087849, -114.985682                  | <input type="checkbox"/> LVW4.75-2: 36.093130, -114.961928                           | <input type="checkbox"/> LVW3.5-3: 36.100548, -114.943390           |
| <input checked="" type="checkbox"/> LVW5.3-1: 36.089867, -114.973112                 | <input type="checkbox"/> LVW4.75-3: 36.093277, -114.962051                           | <input type="checkbox"/> LVW3.5-4: 36.100585, -114.943405           |
| <input checked="" type="checkbox"/> LVW5.3-2: 36.090072, -114.973322 <b>Modified</b> | <input type="checkbox"/> LVW4.75-4: 36.093431, -114.962174                           | <input type="checkbox"/> LVW3.5-5: 36.100606, -114.943451           |
| <input checked="" type="checkbox"/> LVW5.3-3: 36.090218, -114.973467                 | <input type="checkbox"/> LVW4.75-5: 36.093580, -114.962301                           | <input type="checkbox"/> LVW3.5-6: 36.100645, -114.943493           |
| <input checked="" type="checkbox"/> LVW5.3-4: 36.090367, -114.973512                 | <input type="checkbox"/> LVW4.2-1: 36.094695, -114.954570                            | <input checked="" type="checkbox"/> LVW0.55: 36.122158, -114.904631 |
| <input checked="" type="checkbox"/> LVW5.3-5: 36.090513, -114.973758                 |  |   |

Prepared by: Joel Hernandez Signature: [Signature] Date: 7/10/23

# **Attachment C Calibration Logs**



**EQUIPCO****RENTALS****YSI ProDSS RENTAL  
CALIBRATION CERTIFICATE**SERVICE TECHNICIAN: CBDATE: 07/01/2023

RENTAL CUSTOMER:

INSTRUMENT INFORMATIONRENTAL I.D. NUMBER: YSI-ProDSS. 32SERIAL NUMBER: 17M101693CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	<u>✓</u>	<u>073579</u>
2. pH ZERO	pH 7	<u>✓</u>	<u>086097</u>
pH SLOPE	pH 4	<u>✓</u>	<u>082792</u>
pH SLOPE	pH 10	<u>✓</u>	<u>077102</u>
3. DISSOLVED OXYGEN	Air Calibration	<u>✓</u>	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfite)	<u>N/A</u>	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<u>✓</u>	N/A
TURBIDITY SPAN	100 NTU's	<u>✓</u>	<u>07/01/2023</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<u>✓</u>	<u>120522</u>



# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie, Ramboll

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**Cc:** Steve Clough; Nevada Environmental Response Trust  
Mia Sosa, Emeryville Lab Data; Ramboll  
Dana Grady; Tetra Tech

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**From:** Jesse Bunkers, Katelyn Goen; Tetra Tech

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**Date:** September 29, 2023

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**Subject:** August 2023 Third Quarter Groundwater Monitoring Summary  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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## 2023 THIRD QUARTER GROUNDWATER MONITORING SUMMARY

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary of the 2023 Third Quarter groundwater monitoring event for the NERT Site. This monitoring event included depth-to-water measurements, transducer data downloads, and low-flow groundwater sampling performed in accordance with the following Ramboll documents:

- Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3, dated December 16, 2022;
- Field Guidance Document (FGD) No. 008- Groundwater and Free Product Level Measurements, Revision 2, dated March 4, 2020; and
- FGD No. 005- Low-Flow Groundwater Sampling, Revision 2, dated March 4, 2020.

Details regarding the depth-to-water measurements, transducer data downloads, and low-flow groundwater sampling are described below.

### Depth-to-Water Measurements

Figure 1 identifies the 68 monitoring well locations requiring depth-to-water measurements as part of the Third Quarter groundwater monitoring event detailed on Table 4 (Quarterly Monitoring Program Summary) of the SAP. Depth-to-water measurements were collected from 64 of the 68 wells on August 3, 2023. Depth-to-water measurements were not collected from the following wells as explained:

- M-95, M-96, M-100, and M-101 were dry. Consequently, depth-to-water measurements could not be recorded for these wells.

All wells were observed to be in good condition during the 2023 Third Quarter groundwater monitoring event.



Field water level measurement logs are included as Attachment A. Field investigation daily logs are included as Attachment B. The electronic data deliverable (EDD) with the recorded depth-to-water data will be transmitted separately via email as an Excel file.

## Transducer Data Downloads

Figures 1 and 2 identify the locations of the 50 transducers requiring data downloads as part of the Third Quarter groundwater monitoring event as detailed on Table 9 (Transducer Network Summary) of the SAP. Data downloads were performed from 34 of the 50 transducers between August 7 and 9, 2023. Transducer data were not downloaded from the following wells as explained:

- The eight locations listed below contain telemetry devices that do not require manual downloads:
  - M-25
  - M-71
  - NERT4.51S1
  - NERT4.64S1
  - NERT4.71S2
  - S3.58 STILLING
  - S4.51 STILLING
  - WMW6.55S
- The transducers from NERT3.40S1, NERT3.98S1, and WMW4.9S would not connect and were not downloaded. The transducers were removed from their respective monitoring wells and will be shipped to the manufacturer for repairs.
- S3.69 Stilling and S4.34 Stilling were unable to be located due to overgrown vegetation.
- AA-30 would not connect due to equipment connectivity issues. The data was later downloaded by Ramboll utilizing different equipment.
- No transducers were present at M-44 or NERT5.63S1. The M-44 transducer provided to Ramboll for assessment during the Fourth Quarter 2022 event has not yet been returned for reinstallation. The NERT5.63S1 transducer was observed to be missing during the May 2023 data downloading event.

Ramboll removed five transducers: DBMW-1, M-189, PC-137D, PC-156A, and TR-7, which were provided to Tetra Tech following the Third Quarter 2023 event after failed attempts to connect the devices. These transducers will be shipped to the manufacturer for repairs with other transducers identified for repair by Tetra Tech.

In addition to the data download issues and repairs described above, the following observations were made while downloading the transducer data and, if applicable, a recommendation for repair/modification is provided, or a description of completed repairs is provided:

- Transducer data were downloaded from LVWPS-MW201B, LVWPS-MW210C, and PC-56, but the files included no useable data as the transducers had reset themselves. The transducers were removed from these wells and will be shipped to the manufacturer for repairs.
- The transducer data from ES-57A and ES-57B were successfully downloaded, but the datalogging process could not be stopped during the download. After downloading the data, the transducers were redeployed to continue logging data at their respective locations. These transducers may require future repairs if the data downloads cannot be stopped.
- The transducer data from MCF-30A and MCF-30B were successfully downloaded, but the datalogging process could not be stopped during the download. After downloading the data, Ramboll relocated the transducers to log data at NERT3.63S1 and NERT4.38N1, respectively. These transducers may require future repairs if the data downloads cannot be stopped.

- The transducer data from NERT 3.35S1, NERT3.94N1, and WMW6.15N were downloaded, but the files contained only one data point or no data points; these transducers were reset and redeployed after the data downloads.

The transducer data download log is provided as Attachment C. The electronic transducer data download files were transmitted separately to Ramboll via email on August 9, 2023.

## Low-flow Groundwater Sampling

Figure 1 identifies the 13 wells scheduled to be sampled during the Third Quarter monitoring event. Sampling was conducted using low-flow groundwater sampling techniques on August 3 and 4, 2023, with samples collected from 11 of the 13 wells. Groundwater samples were not collected from the following wells as explained:

- The wells listed below were dry or had insufficient water for sampling:
  - M-95
  - M-100

All wells were observed to be in good condition during the Third Quarter 2023 sampling event. Tetra Tech identified dedicated tubing to be present in 10 of the 11 wells sampled and a dedicated pump was present in one of the 11 wells sampled. All the wells sampled during the Third Quarter event have dedicated tubing or a dedicated pump, continuing the Trust's efforts to reduce resource consumption at the NERT Site.

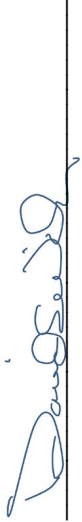
The low-flow groundwater purging and sampling logs are included as Attachment D, and the equipment calibration certifications and logs are included as Attachment E. The field parameter EDD will be transmitted separately via email.

Groundwater samples were stored in coolers at 4°C and transferred under chain-of-custody documentation to Eurofins TestAmerica (ETA) in Phoenix, Arizona on August 3 and 4, 2023. The samples were submitted for analysis of the parameters identified in the SAP for the Third Quarter monitoring event. The ETA laboratory reports are available via Eurofins' Total Access website.

## CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the August 2023 Third Quarter Groundwater Monitoring Summary



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

September 29, 2023

Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

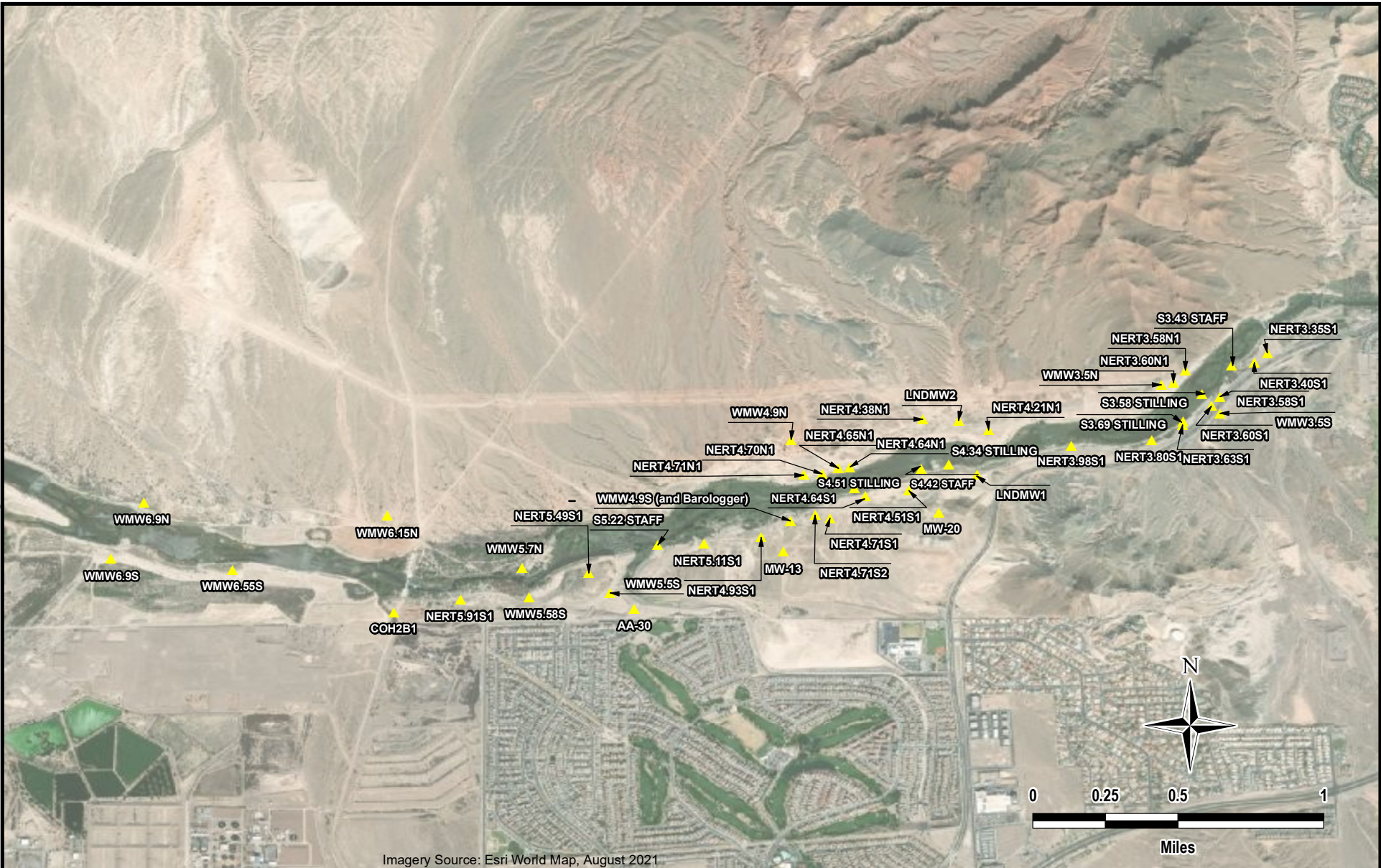


# Figures









Imagery Source: Esri World Map, August 2021

**Legend**

▲ Transducer Download

**Tt TETRA TECH**

www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

**NEVADA ENVIRONMENTAL RESPONSE TRUST**

GROUNDWATER MONITORING PROGRAM  
HENDERSON, NEVADA

**THIRD QUARTER TRANSDUCER LOCATIONS AROUND  
THE LAS VEGAS WASH**

Project No.: 117-7502021-H02

Date: AUGUST 17, 2021

Designed By: JR

Figure No.  
**2**



# **Attachment A**

## **Field Water Level Measurement Logs**



# WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 8/2/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number: 202994	Recorded by: J. Heintz / J. Bunkers

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
15:01	M-5A	TOC	38.70	Good	Y
14:42	M-6A	TOC	38.54	Good	Y
14:47	M-7B	TOC	36.35	Good	Y
15:07	M-14A	TOC	34.15	Good	Y
15:23	M-25	TOC	34.40	Good	N
15:15	M-37	TOC	34.87	Good	Y
15:26	M-38	TOC	31.80	Good	Y
15:45	M-69	TOC	34.60	Good	N
15:56	M-79	TOC	31.87	Good	Y
14:27	M-95	--	--	Dry	N
14:19	M-96	--	--	Dry	Y
14:36	M-98	TOC	33.45	Good	Y
14:09	M-99	TOC	33.64	Good	Y
15:37	M-166	TOC	31.40	Good	N
15:31	M-167	TOC	30.14	Good	N
16:02	M-168	TOC	28.00	Good	N
16:05	M-169	TOC	30.39	Good	N
13:42	MW-K5	TOC	28.67	Good	Y
14:00	PC-18	TOC	34.65	Good	Y
13:27	PC-53	TOC	25.52	Good	Y
14:05	PC-55	TOC	33.45	Good	Y
12:25	PC-56	TOC	19.21	Good	Y
12:29	PC-58	TOC	19.98	Good	Y
12:14	PC-59	TOC	17.70	Good	Y
12:15	PC-60	TOC	18.36	Good	Y
12:05	PC-62	TOC	16.70	Good	Y
11:43	PC-86	TOC	11.90	Good	Y
11:33	PC-90	TOC	5.33	Good	Y
11:29	PC-91	TOC	10.11	Good	Y
11:14	PC-97	TOC	4.12	Good	Y
13:46	PC-98R	TOC	21.75	Good	Y
13:48	PC-103	TOC	22.23	Good	Y
13:02	PC-122	TOC	33.72	Good	Y

BMP = Below Measuring Point    DP = Dedicated Pump    OS = Offsite Storage    TOC = Top of Casing (Well Riser)



# WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 8/3/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number: 202994	Recorded by: J. Heintz / J. Bunkers

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
14:23	H-28A	TOC	38.64	Good	Y
8:45	M-10	TOC	52.09	Good	Y
9:12	M-11	TOC	44.24	Good	Y
11:52	M-12A	TOC	43.11	Good	Y
11:22	M-19	TOC	36.08	Good	Y
14:09	M-22A	TOC	31.69	Good	DP
13:10	M-44	TOC	23.24	Good	Y
13:24	M-55	TOC	31.01	Good	N
12:27	M-56	TOC	32.41	Good	N
12:10	M-58	TOC	30.69	Good	N
12:24	M-60	TOC	33.22	Good	N
13:33	M-64	TOC	30.84	Good	Y
12:38	M-65	TOC	33.73	Good	N
12:19	M-66	TOC	32.37	Good	DP
11:13	M-67	TOC	22.95	Good	Y
11:02	M-68	TOC	27.60	Good	Y
13:39	M-70	TOC	35.71	Good	DP
13:44	M-71	TOC	35.78	Good	Y
13:53	M-72	TOC	32.38	Good	DP
12:41	M-73	TOC	31.05	Good	Y
10:39	M-74	TOC	30.30	Good	Y
13:15	M-78	TOC	33.50	Good	DP
10:04	M-80	TOC	36.18	Good	DP
10:09	M-81A	TOC	34.41	Good	Y
9:59	M-83	TOC	31.85	Good	Y
9:30	M-100	--	--	Dry	N
9:39	M-101	--	--	Dry	N
11:04	M-129	TOC	31.21	Good	DP
13:29	M-170	TOC	30.76	Good	N
12:37	M-172	TOC	33.83	Good	N
12:14	M-173	TOC	29.83	Good	N
11:16	M-174	TOC	21.11	Good	N
11:09	M-175	TOC	21.89	Good	N
11:05	M-176	TOC	24.64	Good	N
10:52	M-177	TOC	22.51	Good	N

BMP = Below Measuring Point DP = Dedicated Pump OS = Offsite Storage TOC = Top of Casing (Well Riser)

**Attachment B**  
**Field Investigation Daily Logs**









Task Name: GW Monitoring      Task Manager: Jesse Bunkers      Date: 8/3/23  
 Field Personnel: JTB, JH      Task No: H02  
 Location: Site Wide      Tablet #: 1      Reported by: J. Bunkers

Weather Conditions: 78-102° F Sunny, Calm  
 Total Vehicle Mileage: 20  
 Task Visitors / Subcontractors: None  
 Matters of Safety:  
 Traffic, Heat Stress  
 Problems / Concerns and Corrective Actions Taken:  
 None

Time	Activities
0615	Arrive at office, prep for Q3 sampling
0700	Meet JH, safety / tailgate meeting, gather supplies, make to field
1015	Check in at Timet
1035	Arrive at M-129, gauge well
1125	Check in at Borman
1150	Arrive at M-12A DTW = 43.11
1200	JH cant find M-73, make to office, grab metal detector and shovel and broom, make to M-73
1240	Found M73, gauge, make to M-44
1300	Check in at Google, gauge, set up to sample M-44
1345	Collect sample M-44.20250803
1430	Hand off sample to ETA courier, calibrate
1515	Hand off sample to Pace courier
1700	Done for day

Equipment (Equip Co)  
 WLM WLM 300 PG.11  
 Compressor 3020.08  
 Controller MP10.16  
 Pump MP-SP.06  
 YSI 19K101419















Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 8/7
Field Personnel: JH, JB		Task No: H02
Location: Site Wide	Tablet #: 5	Reported by: <del>JH</del> JH

Weather Conditions: sunny, calm, lt 100  
 Total Vehicle Mileage: 25  
 Task Visitors / Subcontractors: none  
 Matters of Safety: snakes, heat stress  
 Problems / Concerns and Corrective Actions Taken: none

Time	Activities
0500	Arrive at office, gather supplies, HR meeting, move to LHW.
0845	Arrive at first transducer, NERT 3.35 S1. - no data, last download says Nov 2022, lost connection and can't reconnect. no log restarted; pulled out 0042103389
0945	NERT 3.40 S1, unable to connect, pulled out 0042103397
1100	NERT 3.48 S1, unable to connect, pulled out 0042086019
1145	LNDPW1, unable to connect, pulled out 0042069896
1300	MW 20, unable to connect, pulled out 0042069901
1415	WMW4.95, unable to connect to Baro, pulled out, 0012069737 unable to connect to water, pulled out 0042069899
1515	Move back to office. - LHWPS2014 bad transducer recently replaced, pulled out 587385
1615	Done for day.









# **Attachment C**

## **Transducer Data Download Log**



Task Name: GW Monitoring	Task No: H02	WLM Type: Solinst
Task Manager: Jesse Bunkers	Recorded by: J. Bunkers, J. Heintz	WLM Serial Number: 202994

Well ID	Date	Time of Manual Measurement	Manual Depth to Static Water Level (ft BMP)	Measuring Point	Transducer Serial Number	Time of Transducer Removal	Time of Transducer Redeployment*	Notes
AA-30	8/8/2023	11:25	18.66	TOC	00000	11:25	12:00	Well contained a transducer type for which field samplers did not have equipment for downloading
COH-2B1	8/8/2023	13:14	16.99	TOC	0042069892	13:14	14:00	
ES-57A	8/8/2023	14:59	18.75	TOC	2065098	14:59	16:00	Continuous log - Data log not stopped/restarted.
ES-57B	8/8/2023	14:57	15.69	TOC	2103021	14:57	16:00	Continuous log - Data log not stopped/restarted.
LNDMW-1	8/7/2023	11:22	35.88	TOC	0042069896	11:22	12:00	
LNDMW-2	8/7/2023	11:55	33.33	TOC	0042069894	11:55	13:00	
LVWPS-MW201B	8/7/2023	15:18	19.33	TOC	587776	15:18	16:00	Data downloaded successfully, but log was set to 1969.
LVWPS-MW206C	8/8/2023	11:10	35.59	TOC	587777	11:10	12:00	
LVWPS-MW210C	8/8/2023	10:53	25.03	TOC	587778	10:53	12:00	Data downloaded successfully, but log was set to 1969.
M-25	8/9/2023	8:25	34.47	TOC	39334120	8:25	9:00	Transducer with telemetry, no manual download required.
M-44	8/3/2023	13:16	24.23	TOC	532224	13:16	14:00	No transducer present upon arrival; unit was handed off to Ramboll during Q4 2022.
M-71	8/9/2023	8:36	35.77	TOC	40054647	8:36	9:00	Transducer with telemetry, no manual download required.
MCF-30A	8/8/2023	11:25	3.70	TOC	420103383	11:25	13:00	Continuous log - Data log not stopped/restarted; Unit moved to NERT3.63S1.
MCF-30B	8/8/2023	11:18	15.30	TOC	42087062	11:18	12:00	Continuous log - Data log not stopped/restarted; Unit moved to NERT4.38N1.
MW-13	8/7/2023	13:47	34.73	TOC	0042069903	13:47	14:00	
MW-20	8/7/2023	12:46	31.73	TOC	0042069901	12:46	13:00	
NERT3.35S1	8/7/2023	9:10	21.83	TOC	2103389	9:10	10:00	Data downloaded successfully, but only 1 minute of data had been recorded. Transducer restarted and redeployed.
NERT3.40S1	8/7/2023	9:49	38.79	TOC	2103397	9:49	11:00	Could not connect to transducer; No download; Shipped to manufacturer for repair.
NERT3.60S1	8/7/2023	10:12	38.37	TOC	0042103390	10:12	11:00	
NERT3.80S1	8/7/2023	10:29	9.33	TOC	0042081484	10:29	11:00	
NERT3.94N1	8/7/2023	11:18	37.24	TOC	0042103377	11:18	12:00	Data downloaded successfully, but only 1 minute of data had been recorded. Transducer restarted and redeployed.
NERT3.98S1	8/7/2023	10:57	10.08	TOC	2086019	10:57	12:00	Could not connect to transducer; No download; Shipped to manufacturer for repair.
NERT4.51S1	8/7/2023	12:08	25.37	TOC	0042081153	12:08	13:00	Transducer with telemetry, no manual download required.
NERT4.64S1	8/7/2023	12:17	26.55	TOC	38942508, Eijkelpamp	12:17	13:00	Transducer with telemetry, no manual download required.
NERT4.70N1	8/7/2023	12:21	24.58	TOC	2012672	12:21	13:00	
NERT4.71N1	8/7/2023	12:42	27.55	TOC	2103382	12:42	13:00	
NERT4.71S2	8/7/2023	14:08	26.98	TOC	39334118, Eijkelpamp	14:08	15:00	Transducer with telemetry, no manual download required.
NERT5.11S1	8/7/2023	14:46	20.68	TOC	0042086183	14:46	16:00	
NERT5.26N1	8/7/2023	13:29	16.11	TOC	0042099333	13:29	14:00	
NERT5.49S1	8/8/2023	12:11	27.33	TOC	0042086023	12:11	13:00	
NERT5.63S1	8/8/2023	12:39	22.72	TOC	--	12:39	13:00	No transducer present upon arrival; no download.

\*Deployment time is equal to the time that the log was set to begin recording readings.

Task Name: GW Monitoring	Task No: H02	WLM Type: Solinst
Task Manager: Jesse Bunkers	Recorded by: J. Bunkers, J. Heintz	WLM Serial Number: 202994

Well ID	Date	Time of Manual Measurement	Manual Depth to Static Water Level (ft BMP)	Measuring Point	Transducer Serial Number	Time of Transducer Removal	Time of Transducer Redeployment*	Notes
NERT5.83N1	8/7/2023	14:27	18.62	TOC	0042081156	14:27	15:00	
NERT5.91S1	8/8/2023	13:21	13.44	TOC	0042081460	13:21	14:00	
PC-56	8/8/2023	13:44	19.20	TOC	599354	13:44	14:00	Data downloaded successfully, but log was set to 1970.
PC-98R	8/8/2023	14:56	21.79	TOC	587399	14:56	16:00	
S3.58 STILLING	8/8/2023	9:23	1.55	TOC	2069264	9:23	10:00	Transducer with telemetry, no manual download required.
S3.69 STILLING	8/8/2023	9:47	--	--	--	9:47	--	Obstructed
S4.34 STILLING	8/8/2023	10:27	--	--	--	10:27	--	Obstructed
S4.51 STILLING	8/8/2023	10:48	2.65	TOC	000000	10:48	11:00	Transducer with telemetry, no manual download required.
WMW3.5N	8/7/2023	10:38	35.22	TOC	0042069895	10:38	10:00	
WMW4.9N	8/7/2023	13:00	31.50	TOC	0042069885	13:00	14:00	
WMW4.9S	8/7/2023	14:12	26.09	TOC	0042069899	14:12	15:00	Could not connect to transducer; No download; Shipped to manufacturer for repair.
WMW4.9S (BARO)	8/7/2023	14:42	26.09	TOC	0012069737	14:42	15:00	
WMW5.5S	8/8/2023	11:49	14.06	TOC	0000000	11:49	12:00	
WMW5.7N	8/7/2023	14:01	8.75	TOC	0042069904	14:01	15:00	
WMW5.7S	8/8/2023	12:50	17.02	TOC	2069897	12:50	14:00	
WMW6.15N	8/7/2023	14:48	23.55	TOC	0042069891	14:48	15:00	Data downloaded successfully, but no data had been recorded. Transducer restarted and redeployed.
WMW6.55S	8/8/2023	15:23	16.19	TOC	BW421	15:23	16:00	Transducer with telemetry, no manual download required.
WMW6.9N	8/7/2023	15:31	17.89	TOC	0042068798	15:31	16:00	
WMW6.9S	8/8/2023	14:31	9.44	TOC	0042067219	14:31	15:00	

\*Deployment time is equal to the time that the log was set to begin recording readings.

**Attachment D**  
**Low-Flow Groundwater Purging &**  
**Sampling Logs**





























**Attachment E**  
**Calibration Certifications and Logs**

## YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: TAC

DATE: 7/28/23

RENTAL CUSTOMER: TETRA TECH, INC - GOLDEN

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS. 48

SERIAL NUMBER: 19K100092

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>073519</u>
2. pH ZERO	pH 7	/	<u>086097</u>
pH SLOPE	pH 4	/	<u>082792</u>
pH SLOPE	pH 10	/	<u>077102</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	/	N/A
ZERO TEST	(Sodium Sulfite)	N/A	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>072823</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>120522</u>





RENTALS

YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: TAC

DATE: 8/1/23

RENTAL CUSTOMER: TETRA TECH INC, GOLDEN

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS 25

SERIAL NUMBER: 17M100596

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 µMhos	/	073519
2. pH ZERO	pH 7	/	086097
pH SLOPE	pH 4	/	082792
pH SLOPE	pH 10	/	077102
3. DISSOLVED OXYGEN	Air Calibration Barometric pressure = 760mmHg	/	N/A
DISSOLVED OXYGEN ZERO TEST	(Sodium Sulfit)	N/A	N/A
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	080123
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	120522







# August 2023 Sampling Event

**DTW readings taken manually for all Interceptor Wells, SWF, AWF and AP5 Wells unless otherwise noted**

**Issues/Concerns**

IWF, SWF, AWF, AP5 Wells	Manual DTWs taken with a Geotech Water Level Meter #7035 on all wells except PC-99R2/R3 and I-Q.
PC99R2/R3	When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading. Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel
AP5 Wells	Sampled by ETI 2023 08 08. Will be done on a Monthly basis by ETI.
* PC-115R; pc-118; PC-133;	All have more than 1-foot difference in DTW from 07/2023 to 08/2023. Data recorded on field sheet.
*ART-1A; ART-4; ART-4A; ART-7B;	
*ART-8A; I-AD; I-AR; I-E; I-G; I-H;	
*I-J; I-L; I-P; I-Q; I-R; I-S; I-V; I-W	
ART-2 and ART-2A	Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2022 08 10.
I-AB, I-AC	DTW taken prior to turning well on to sample, purged prior to collecting sample.
I-Q	DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe.  Emily McGuire sampled August 2023.
Resamples	I-Q, I-G, I-T, I-U, I-H, I-P, I-W, I-O, and all AP5 wells were resampled for CRVI on 08/17/2023.

**FD/EB**

<b>SWF</b>	PC-115R 2023 08 10 – FD	PC-116R 2023 08 10 - EB
<b>AWF</b>	PC-150 2023 08 10 – FD	ART-1A 2023 08 10 - EB
<b>IWF</b>	I-N 2023 08 01 – FD	I-O 2023 08 08 - EB
<b>AP5 Wells</b>	E2-3 2023 08 08 - FD	E2-4 2023 08 08 - EB

**\*\*Per email from Emily Gilson dated 4/12/2017 – removed historical\_reference\_elev and water\_level\_elev data from 2017 Groundwater Sampling EDD**

Field Forms changes	TWD will be marked with a “NM” not measured, unless a manual reading obtained. Manually record TWD in May
Monthly Table changes	Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18  Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott 7/19/2017
Sampling Changes	Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by Tetra Tech in November and May.



# WATER SAMPLING FIELD LOG

	Well: 1-AA
Project/Site: NERT Project - Henderson Nevada	Date(s): 8   1   23
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: 79° Sunny	

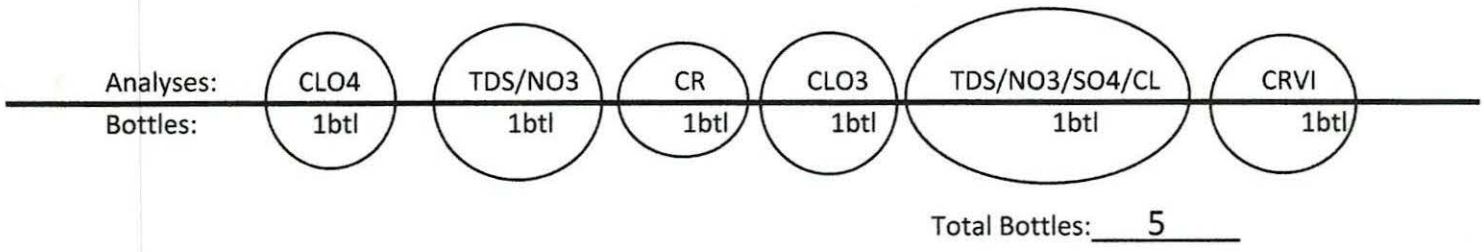
DTW ONLY

<b>Well Depth Information-</b>	Date: 8   1   23	Time: 0705
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	46.31	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8   1   23	Start Time: 0705
Sample Time	pH	EC/MC	Temp	Well Observations	
0708	<del>7.12</del> 7.12 <small>pH</small>	4.90 <small>mS/Cm</small>	26.9 <small>°C</small>		
Sample Appearance: clear					
Finish Time: 0710					



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <u>1-AB</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8/1/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>79° sunny</u>	

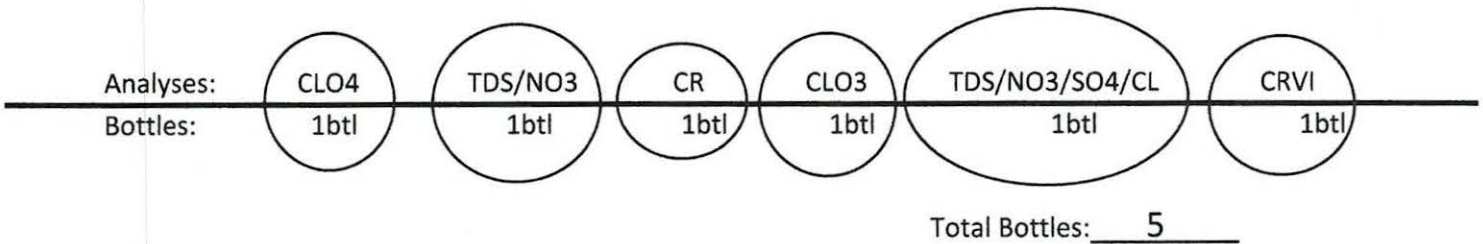
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/1/23</u>	Time: <u>0703</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<u>35.08</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at <u>0711</u> , flowing at <u>6.4</u> gpm. Purged for <u>2</u> minutes, <u>2</u> minutes required per well purge spreadsheet. Turned well off at <u>0718</u> . <span style="float: right;"><u>@ 6.7 gpm</u></span>
--

<b>Field Measurements-</b>				Date: <u>8/1/23</u>	Start Time: <u>0711</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0713</u>	<u>7.26</u> <small>pH</small>	<u>5.21</u> <small>mS/Cm</small>	<u>26.4</u> <small>°C</small>		
Sample Appearance: <u>clear</u>					
Finish Time: <u>0718</u>					



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <u>1-AC</u>
Project/Site: <u>NERT Project - Henderson Nevada</u>	Date(s): <u>8/9/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>90° sunny</u>	

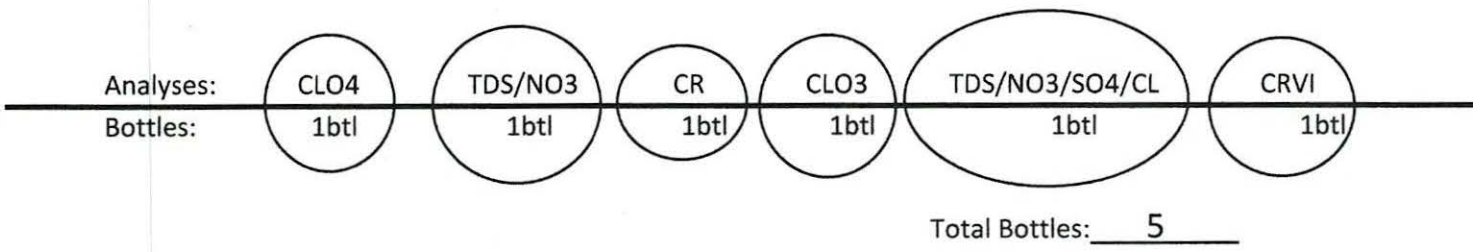
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/9/23</u>	Time: <u>0839</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>29.69</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at <u>0840</u> , flowing at <u>3.1</u> gpm. Purged for <u>5</u> minutes, <u>4</u> minutes required per well purge spreadsheet. Turned well off at <u>                    </u> . <span style="float: right;"><u>@3.7gpm</u></span>
--

<b>Field Measurements-</b>				Date: <u>8/9/23</u>	Start Time: <u>0840</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0845</u>	<u>7.63</u> <small>pH</small>	<u>5.70</u> <small>mS/Cm</small>	<u>28.7</u> <small>°C</small>		
Sample Appearance: <u>pale yellow</u>					
Finish Time: <u>0849</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-AD

Date(s): 8/9/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 90° sunny

DTW ONLY

**Well Depth Information-** Date: 8/9/23 Time: 0851

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 38.84\*  
 Manually Taken at Well  Taken at Control Panel

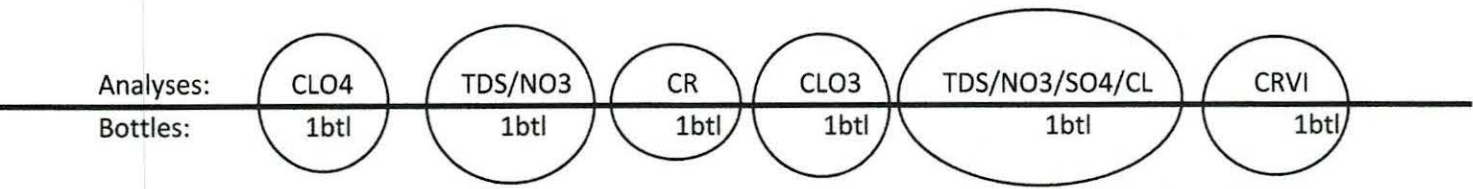
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/9/23 Start Time: 0851

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0853</u>	<u>7.24</u> pH	<u>5.66</u> mS/Cm	<u>30.4</u> °C	<u>#measured 2x</u>
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0856</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-AR</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8/1/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>79° Sunny</u>	

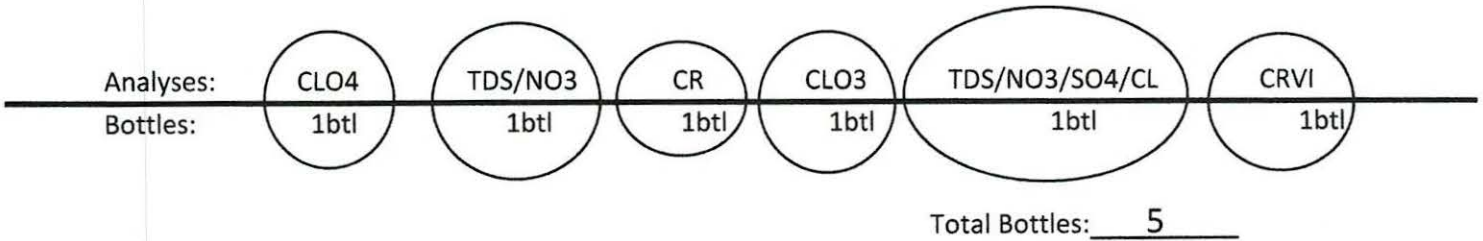
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/1/23</u>	Time: <u>0646</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>43.89*</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>8/1/23</u>	Start Time: <u>0800</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0802</u>	<u>7.68</u> <small>pH</small>	<u>6.40</u> <small>mS/Cm</small>	<u>30.1</u> <small>°C</small>	<u>*measured 2x</u>		
Sample Appearance: <u>gray and cloudy</u>						
Finish Time: <u>0806</u>						



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <u>1-B</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8/1/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>79° Sunny</u>	

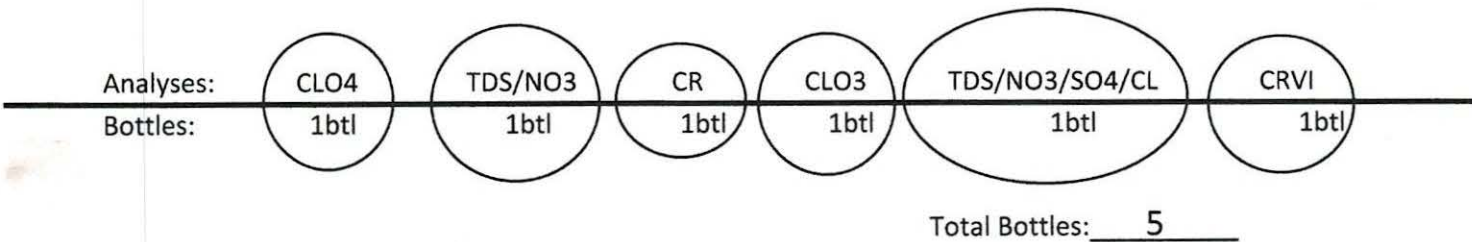
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/1/23</u>	Time: <u>0700</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>43.26</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>8/1/23</u>	Start Time: <u>0721</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0722</u>	<u>7.30</u> <small>pH</small>	<u>5.49</u> <small>mS/Cm</small>	<u>27.8</u> <small>°C</small>		
Sample Appearance: <u>Clear</u>					
Finish Time: <u>0725</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: 1-C
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: 82° sunny	

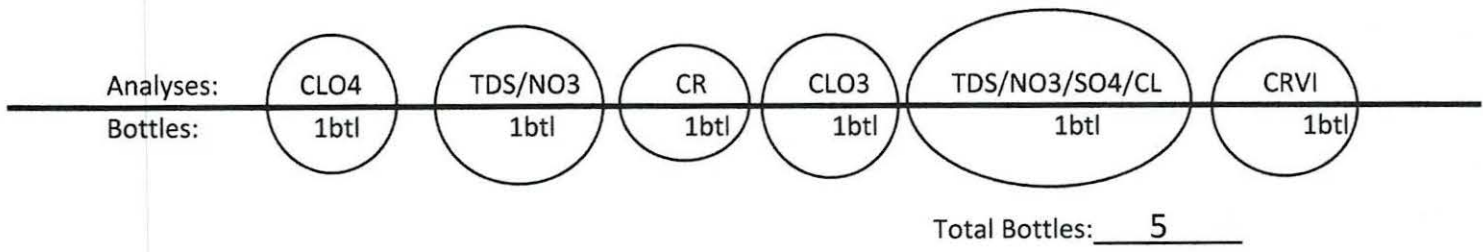
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/1/23	Time: 0812
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	43.36	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8/1/23	Start Time: 0812
Sample Time	pH	EC/MC	Temp	Well Observations	
0815	7.44 <small>pH</small>	7.36 <small>mS/Cm</small>	26.4 <small>°C</small>		
Sample Appearance: pale yellow					
Finish Time: 0819					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: 1-D
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 82° Sunny	

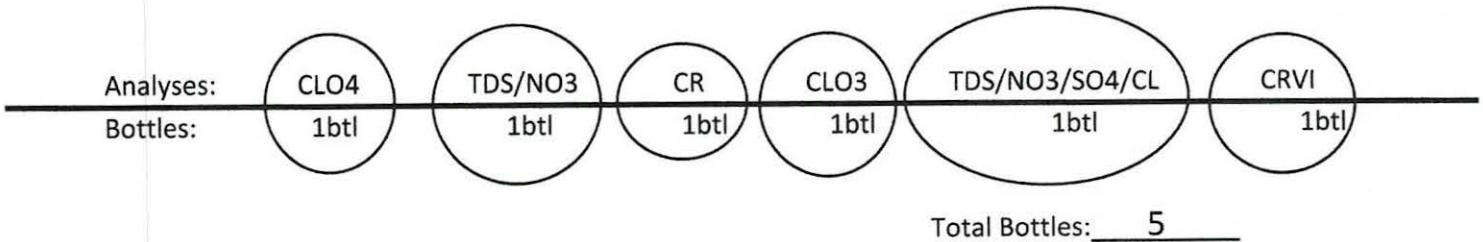
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/1/23	Time: 0820
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 46.91		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8/1/23	Start Time: 0820
Sample Time	pH	EC/MC	Temp	Well Observations	
0822	7.30 <small>pH</small>	7.86 <small>mS/Cm</small>	27.3 <small>°C</small>		
Sample Appearance: pale yellow					
Finish Time: 0825					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-E

Date(s): 8/1/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 82° Sunny

DTW ONLY

**Well Depth Information-** Date: 8/1/23 Time: 0837

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 43.49\*  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

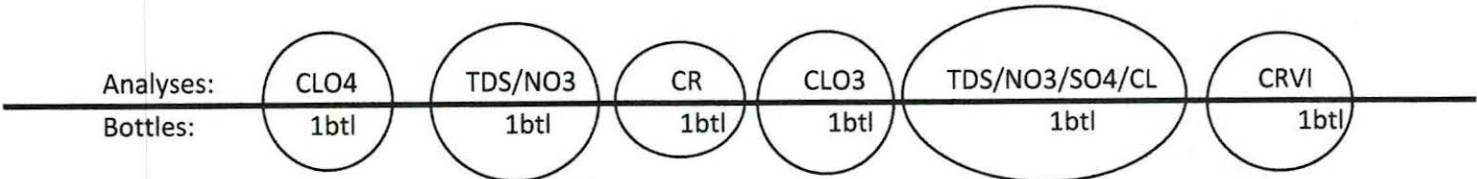
Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/1/23 Start Time: 0837

Sample Time	pH	EC/MC	Temp	Well Observations
0839	7.61 pH	8.05 mS/Cm	27.7 °C	*measured 2x

Sample Appearance: yellow  
Finish Time: 0843



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <u>1-F</u>
Project/Site: <u>NERT Project - Henderson Nevada</u>	Date(s): <u>8/1/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>82° Sunny</u>	

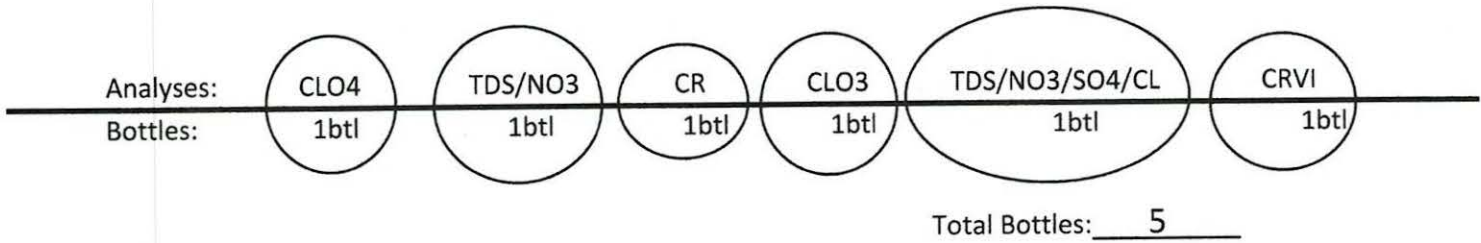
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/1/23</u>	Time: <u>0911</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>40.12</u>	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>	Date: <u>8/1/23</u>	Start Time: <u>0911</u>		
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0914</u>	<u>7.31</u> <small>pH</small>	<u>9.42</u> <small>mS/Cm</small>	<u>27.1</u> <small>°C</small>	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>0918</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-G

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 91° sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 0935

Total Well Depth(ft): NM  
(*'NM'*) - No measurement taken, manually measured annually)

Depth to Water(ft): 38.49\*  
 Manually Taken at Well  Taken at Control Panel

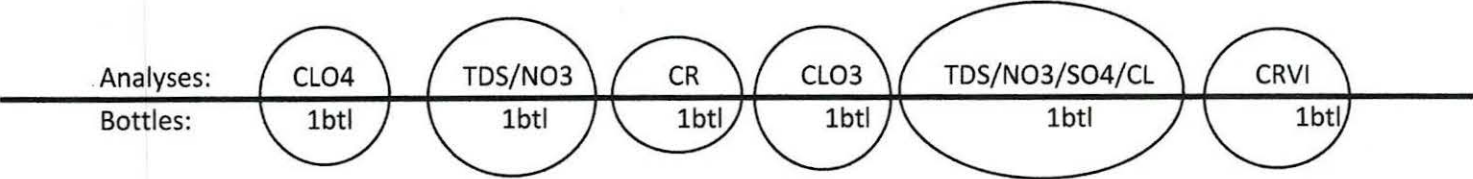
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 0935

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0937</u>	<u>7.15</u> <small>pH</small>	<u>9.74</u> <small>mS/Cm</small>	<u>32.4</u> <small>°C</small>	<u>* measured 2x</u>
Sample Appearance: <u>bright yellow w/ debris</u>				
Finish Time: <u>0941</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-H

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 91° sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 1003

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 44.49\*  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

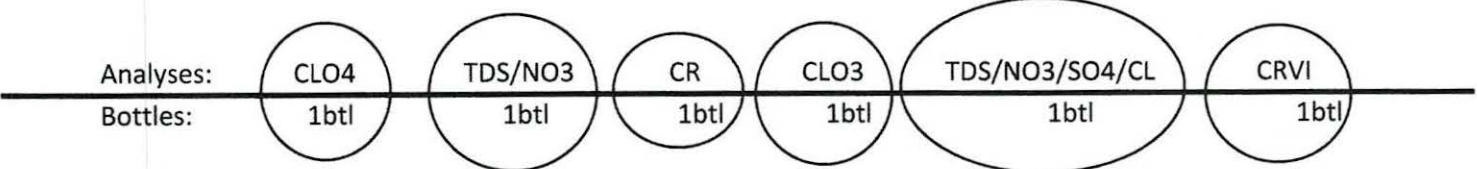
Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 1003

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1005</u>	<u>6.98</u> <small>pH</small>	<u>8.46</u> <small>mS/Cm</small>	<u>28.3</u> <small>°C</small>	<u>*measured 2x</u>

Sample Appearance: yellow w/debris  
Finish Time: 1009



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-1

Date(s): 8/9/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 8/9/23 Time: 0803

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 25.15  
 Manually Taken at Well  Taken at Control Panel

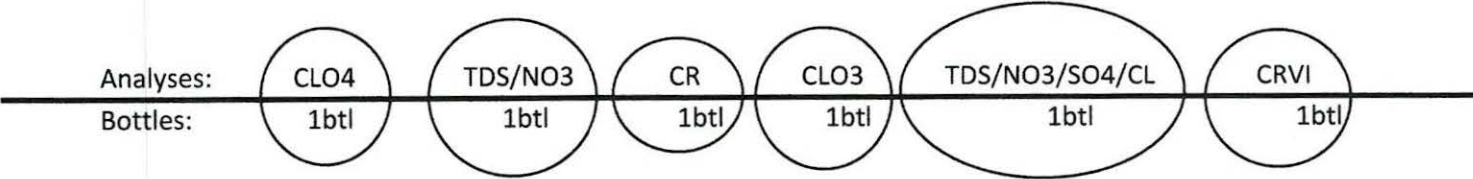
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/9/23 Start Time: 0803

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0805</u>	<u>7.47</u> <small>pH</small>	<u>5.83</u> <small>mS/Cm</small>	<u>27.8</u> <small>°C</small>	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>0808</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-J</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8/9/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>86° partly cloudy</b>	

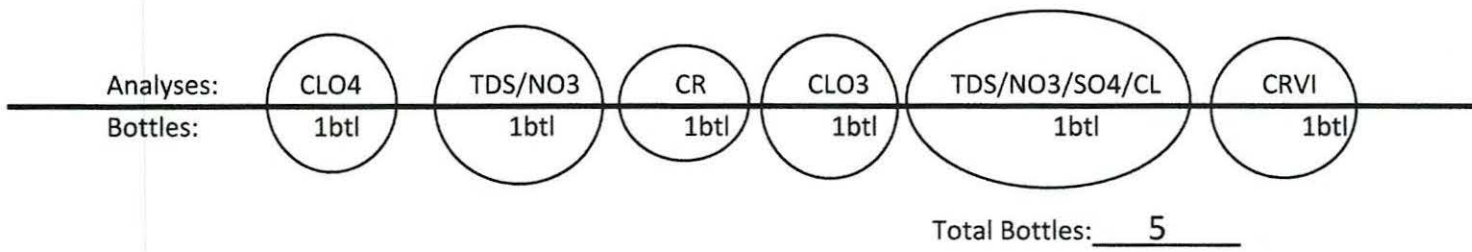
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8/9/23</b>	Time: <b>0819</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.65*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>8/9/23</b>	Start Time: <b>0819</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0821</b>	<b>7.60</b> <small>pH</small>	<b>4.93</b> <small>mS/Cm</small>	<b>26.4</b> <small>°C</small>	<b>*measured 2x</b>
Sample Appearance: <b>yellow</b>				
Finish Time: <b>0826</b>				



DUP EC Reading	QC
<b>4.93</b> <small>mS/Cm</small>	<b>7.63</b> <small>pH</small>
<b>26.4</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: 1-1T

Date(s): 8/9/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 90° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 8/9/23 Time: 0829

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 35.74  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

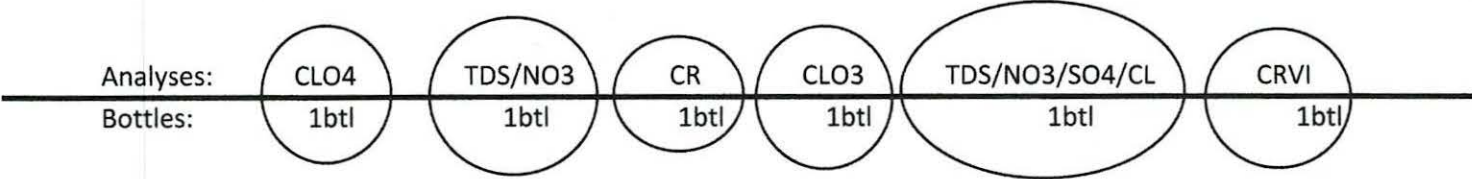
Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/9/23 Start Time: 0829

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0832</u>	<u>7.35</u> <small>pH</small>	<u>5.74</u> <small>mS/Cm</small>	<u>27.0</u> <small>°C</small>	

Sample Appearance: pale yellow  
 Finish Time: 0836



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: 1-L
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 79° Sunny	

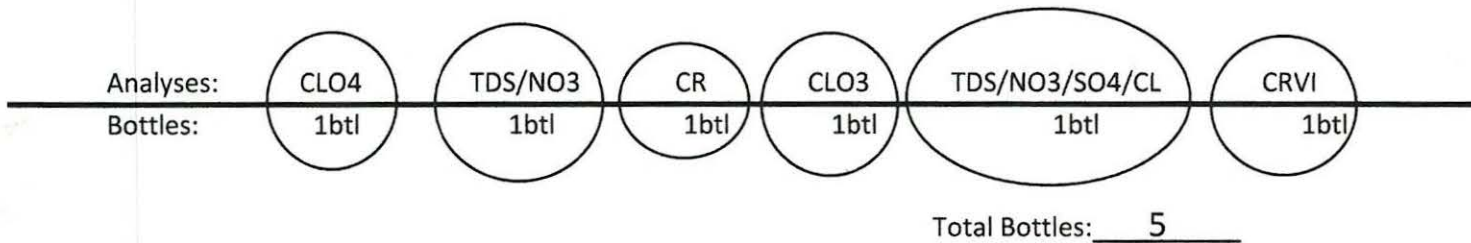
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/1/23	Time: 0653
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 37.01*		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: 8/1/23	Start Time: 0747	
Sample Time	pH	EC/MC	Temp	Well Observations
0748	7.45 <small>pH</small>	6.41 <small>mS/Cm</small>	27.7 <small>°C</small>	*measured 2x
Sample Appearance: clear				
Finish Time: 0752				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-m</u>
Project/Site: <u>NERT Project - Henderson Nevada</u>	Date(s): <u>8/1/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>82° Sunny</u>	

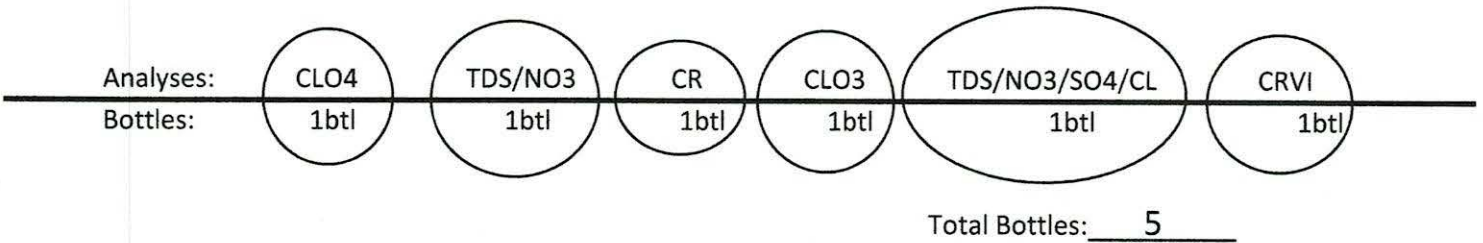
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/1/23</u>	Time: <u>0825</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>36.25</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>8/1/23</u>	Start Time: <u>0825</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0827</u>	<u>7.68</u> <small>pH</small>	<u>8.32</u> <small>mS/Cm</small>	<u>26.2</u> <small>°C</small>			
Sample Appearance: <u>pale yellow</u>						
Finish Time: <u>0831</u>						



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: 1-n
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: 82° sunny	

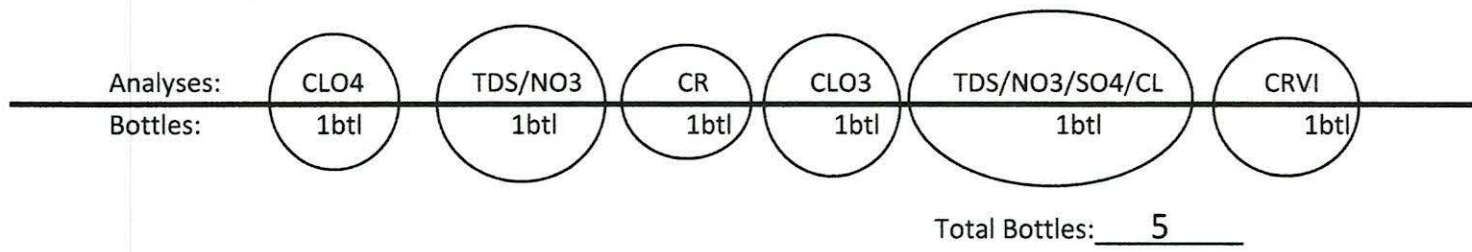
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/1/23	Time: 0845
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	35.18	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8/1/23	Start Time: 0845
Sample Time	pH	EC/MC	Temp	Well Observations	
0847	7.47 <small>pH</small>	8.36 <small>mS/Cm</small>	26.9 <small>°C</small>		
Sample Appearance: yellow					
Finish Time: 0855					



DUP EC Reading	QC
mS/Cm	pH
°C	

1-n 2023 08 01 - FD

Collected for the same analysis before at the same time moving on to the next well.

PH: 7.46  
 EC: 8.36  
 C: 26.8



## WATER SAMPLING FIELD LOG

Well: 1-0

Date(s): 8 | 8 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 93° Sunny

DTW ONLY

**Well Depth Information-** Date: 8 | 8 | 23 Time: 1025

Total Well Depth(ft): NM  
(NM) - No measurement taken, manually measured annually

Depth to Water(ft): 32.59  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

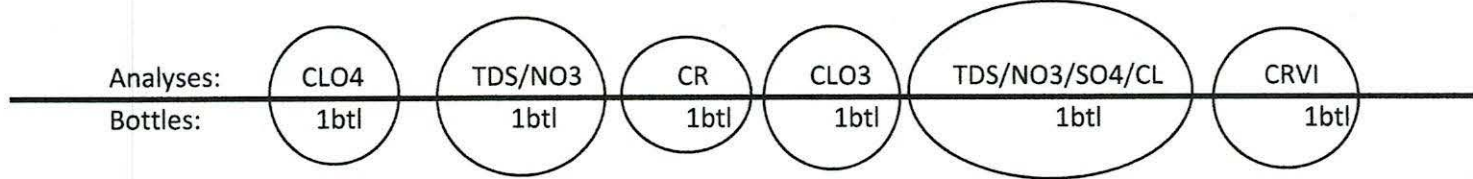
Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8 | 8 | 23 Start Time: 1025

Sample Time	pH	EC/MC	Temp	Well Observations
1027	7.22 <small>pH</small>	7.39 <small>mS/Cm</small>	31.9 <small>°C</small>	

Sample Appearance: yellow  
Finish Time: 1032



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

1-0 2023 08 08 - EB  
 Collected for the same analysis before moving on to the next well.  
 PH: 8.75  
 EC: 0.24  
 C: 24.7  
 Time: 1029

# WATER SAMPLING FIELD LOG

Well: 1-P

Date(s): 8 | 8 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 93° Sunny

DTW ONLY

**Well Depth Information-** Date: 8 | 8 | 23 Time: 1010

Total Well Depth(ft): NM  
(NM) - No measurement taken, manually measured annually

Depth to Water(ft): 47.82\*  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8 | 8 | 23 Start Time: 1010

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1012</u>	<u>7.33</u> pH	<u>7.75</u> mS/Cm	<u>29.7</u> °C	<u>* measured 2x</u>

Sample Appearance: yellow

Finish Time: 1016

Analyses:

CLO4  
1btl

TDS/NO3  
1btl

CR  
1btl

CLO3  
1btl

TDS/NO3/SO4/CL  
1btl

CRVI  
1btl

Bottles:

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: 1-Q
Sampling Team: Emily McGuire	Date(s): 8   8   23
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 91° sunny	

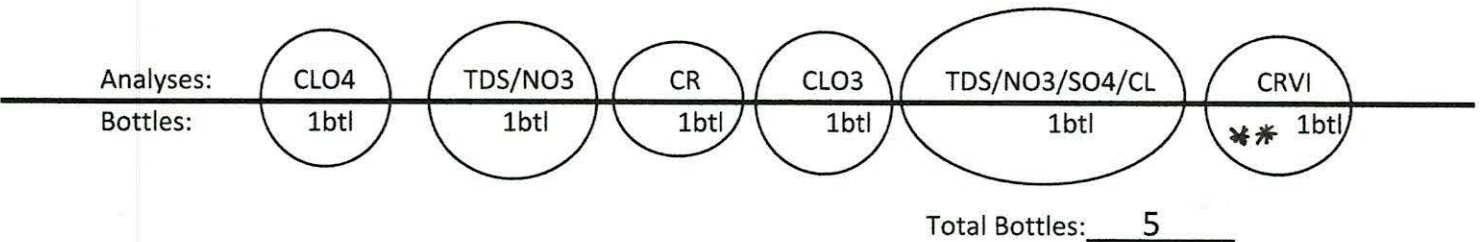
**DTW ONLY**

<b>Well Depth Information-</b>	Date: 8   8   23	Time: 0700
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 37.54*		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8   8   23	Start Time: 0928
Sample Time	pH	EC/MC	Temp	Well Observations	
0929	7.20 <small>pH</small>	8.50 <small>mS/Cm</small>	30.3 <small>°C</small>	*verified using flow trends, cannot take manual measurement while running. ** Resampled for CRVI, bottle labeled 1-Q 2023 08 17.	
Sample Appearance: yellow					
Finish Time: 0933					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <u>1-R</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8</u>   <u>1</u>   <u>23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>79° Sunny</u>	

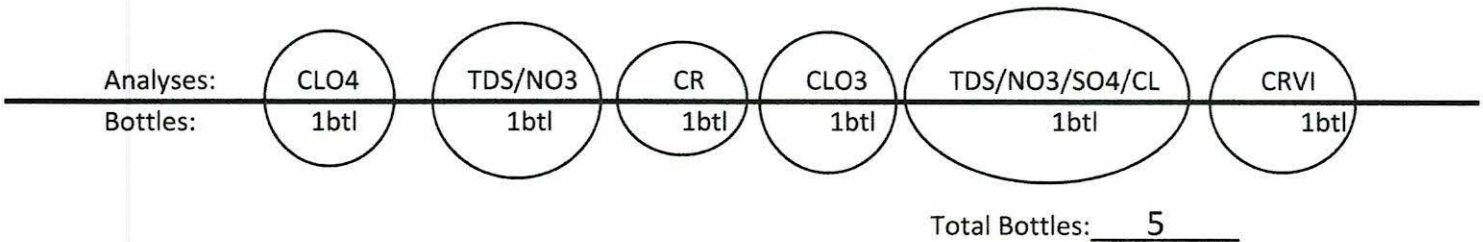
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8</u>   <u>1</u>   <u>23</u>	Time: <u>0658</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>36.93*</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>8</u>   <u>23</u>	Start Time: <u>0728</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0729</u>	<u>7.43</u> <small>pH</small>	<u>6.57</u> <small>mS/Cm</small>	<u>78.6</u> <small>°C</small>	<u>*measured 2x</u>	
Sample Appearance: <u>clear</u>					
Finish Time: <u>0733</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: 1-5
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: 79° sunny	

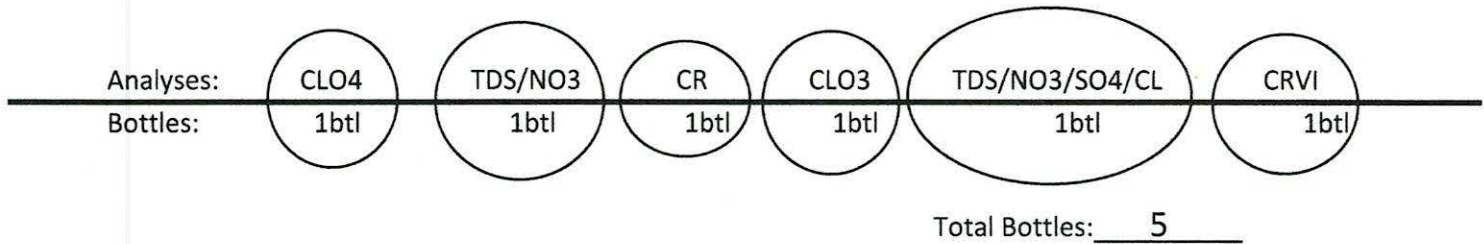
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/1/23	Time: 0651
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	37.74*	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8/1/23	Start Time: 0753
Sample Time	pH	EC/MC	Temp	Well Observations	
0754	7.41 <small>pH</small>	6.59 <small>mS/Cm</small>	27.1 <small>°C</small>	*measured 2x	
Sample Appearance: <del>clear</del> pale yellow					
Finish Time: 0757					



DUP EC Reading	QC
6.59 <small>mS/Cm</small>	6.98 <small>pH</small>
27.2 <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <u>1-T</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8   8   23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>91° Sunny</u>	

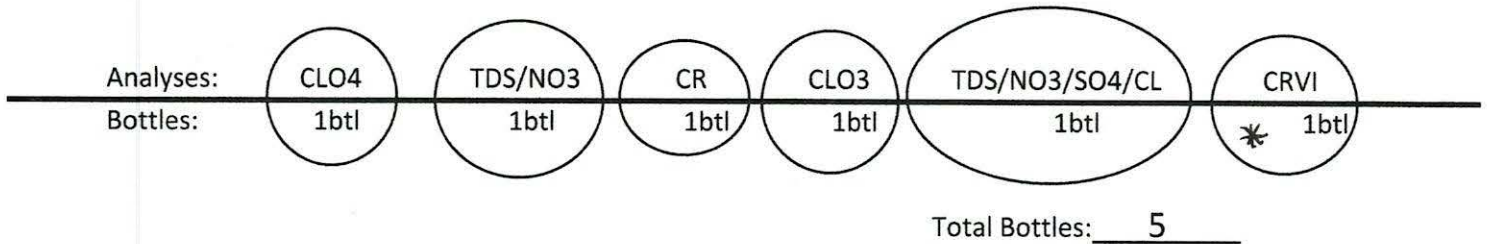
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8   8   23</u>	Time: <u>0946</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>43.48</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>8   8   23</u>	Start Time: <u>0946</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0948</u>	<u>6.92</u> <small>pH</small>	<u>9.16</u> <small>mS/Cm</small>	<u>30.7</u> <small>°C</small>	* Resampled for CRVI, bottle labeled 1-T 2023 0817.	
Sample Appearance: <u>yellow</u>					
Finish Time: <u>0953</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-U

Project/Site: NERT Project - Henderson Nevada      Date(s): 8 | 8 | 23

Sampling Team: Emily McGuire

Sampling Method:       Collected From Sample Port       Hand Bailed due to well Location

Weather Conditions: 91° Sunny

DTW ONLY

**Well Depth Information-**      Date: 8 | 8 | 23      Time: 0955

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 44.75  
 Manually Taken at Well       Taken at Control Panel

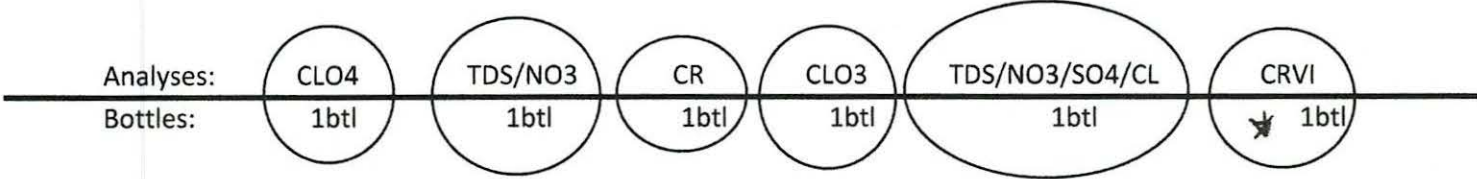
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-**      Date: 8 | 8 | 23      Start Time: 0955

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0957</u>	<u>7.03</u> <small>pH</small>	<u>8.95</u> <small>mS/Cm</small>	<u>29.5</u> <small>°C</small>	*Resampled for CRVI, bottle labeled 1-U 2023 08 17.
Sample Appearance: <u>bright yellow</u>				
Finish Time: <u>1001</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>8.95</u> <small>mS/Cm</small>	<u>7.03</u> <small>pH</small>
<u>29.5</u> <small>°C</small>	

## WATER SAMPLING FIELD LOG

	Well: 1-V
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/9/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 86° partly cloudy	

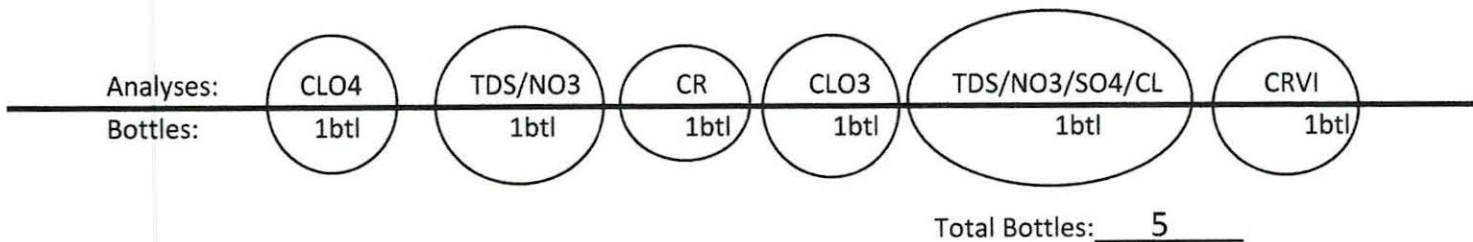
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/9/23	Time: 0755
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	36.78*	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8/9/23	Start Time: 0755
Sample Time	pH	EC/MC	Temp	Well Observations	
0757	7.27 <small>pH</small>	5.76 <small>mS/Cm</small>	27.5 <small>°C</small>	* Measured 2x	
Sample Appearance: yellow					
Finish Time: 0801					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: 1-W
Project/Site: NERT Project - Henderson Nevada	Date(s): 8   8   23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 93° sunny	

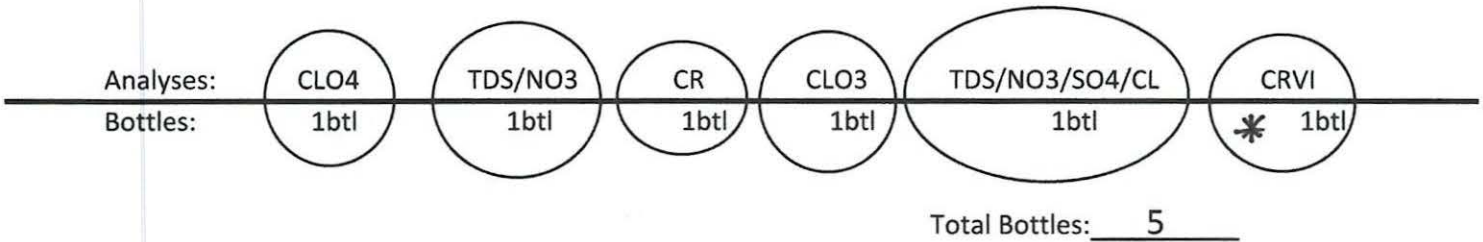
DTW ONLY

<b>Well Depth Information-</b>	Date: 8   8   23	Time: 1018
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	41.78	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8   8   23	Start Time: 1018
Sample Time	pH	EC/MC	Temp	Well Observations	
1020	7.28 <small>pH</small>	7.39 <small>mS/Cm</small>	28.2 <small>°C</small>	*resampled for CRVI, bottle labeled 1-W 2023 08 17.	
Sample Appearance: yellow					
Finish Time: 1024					



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: 1-X
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 82° sunny	

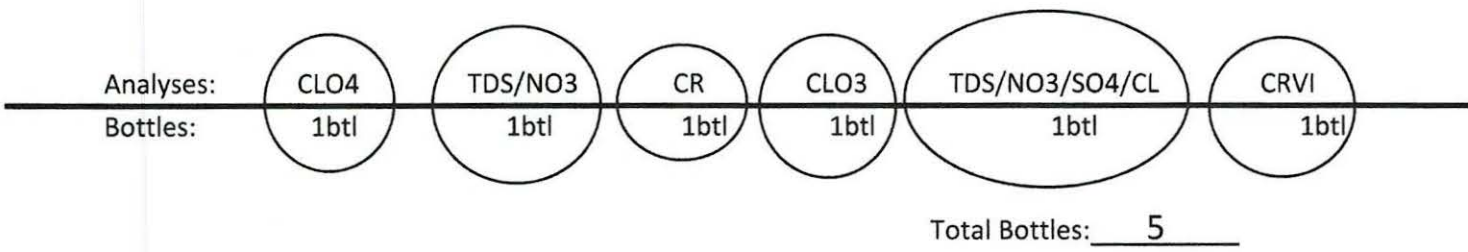
DTW ONLY

Well Depth Information-	Date: 8/1/23	Time: 0856
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 49.73		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-				Date: 8/1/23	Start Time: 0856
Sample Time	pH	EC/MC	Temp	Well Observations	
0859	7.50 <small>pH</small>	9.00 <small>mS/Cm</small>	26.7 <small>°C</small>		
Sample Appearance: yellow w/ debris					
Finish Time: 0905					



DUP EC Reading	QC
9.00 <small>mS/Cm</small>	6.99 <small>pH</small>
26.7 <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: 1-4
Project/Site: NERT Project - Henderson Nevada	Date(s): 8/1/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 79° sunny	

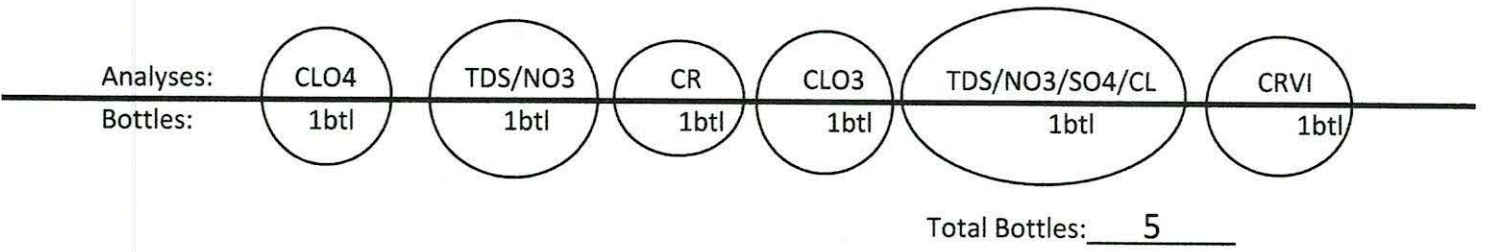
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/1/23	Time: 0656
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 49.91		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: 8/1/23	Start Time: 0742
Sample Time	pH	EC/MC	Temp	Well Observations		
0743	7.28 <small>pH</small>	6.57 <small>mS/Cm</small>	27.6 <small>°C</small>			
Sample Appearance: clear						
Finish Time: 0746						



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-Z

Project/Site: NERT Project - Henderson Nevada Date(s): 8/9/23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 8/9/23 Time: 0809

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 33.62  
 Manually Taken at Well  Taken at Control Panel

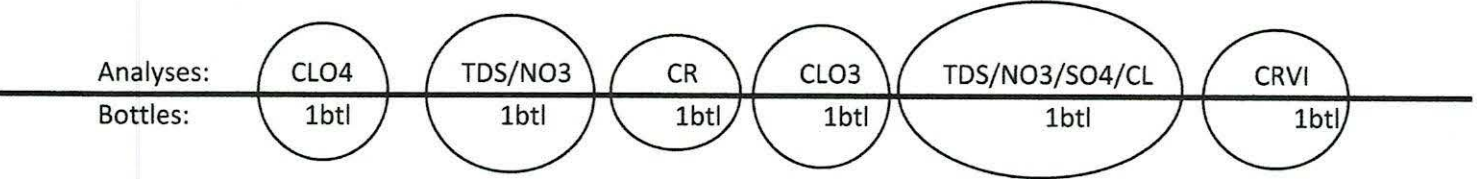
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/9/23 Start Time: 0809

Sample Time	pH	EC/MC	Temp	Well Observations
0811	7.60 pH	4.62 mS/Cm	26.8 °C	
Sample Appearance: yellow				
Finish Time: 0816				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: ART-1
Sampling Team: Emily McGuire	Date(s): 8/10/23
Sampling Method: N/A <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 76° cloudy	

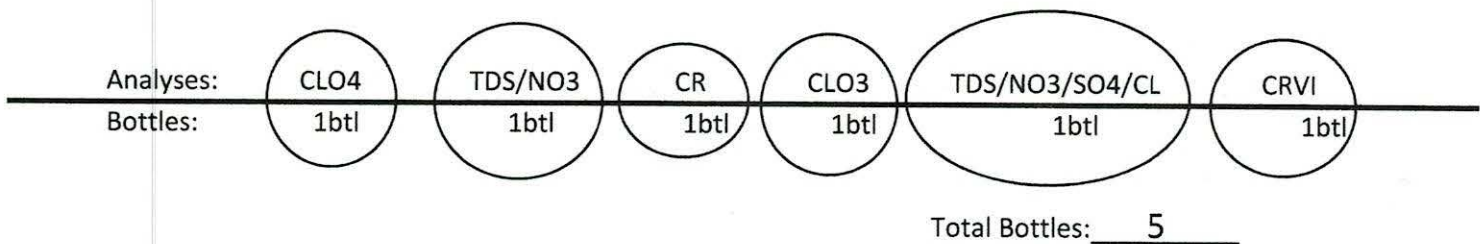
DTW ONLY

<b>Well Depth Information-</b>	Date: 8/10/23	Time: 0807
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 30.46		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 8/10/23	Start Time:
Sample Time	pH	EC/MC	Temp	Well Observations	
	pH	mS/Cm	°C		
Sample Appearance:					
Finish Time:					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: ART-1A

Date(s): 8/10/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 76° cloudy

DTW ONLY

**Well Depth Information-** Date: 8/10/23 Time: 0808

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 30.45\*  
 Manually Taken at Well  Taken at Control Panel

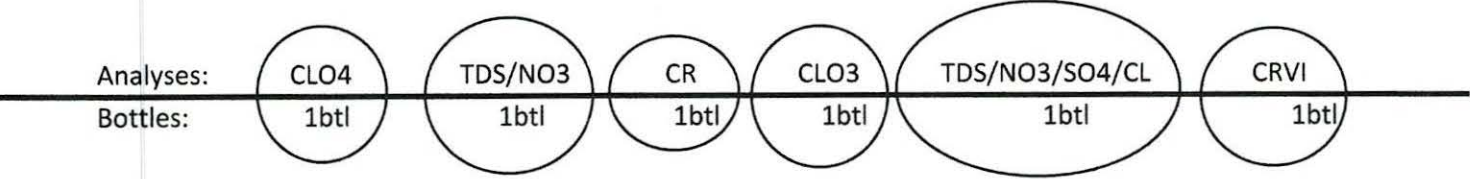
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/10/23 Start Time: 0844

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0846</u>	<u>6.93</u> pH	<u>5.79</u> mS/Cm	<u>26.5</u> °C	<u>* measured 2x</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0849 52</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

ART-1A 2023 08 10 - EB  
 Collected for the same analysis before moving on to the next well.  
 PH: 8.55  
 EC: 0.01  
 C: 33.1  
 Time: 0849

# WATER SAMPLING FIELD LOG

Well: ART-2\*

Date(s): 8/10/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 76° cloudy

DTW ONLY

**Well Depth Information-** Date: 8/10/23 Time: 0804

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 34.23  
 Manually Taken at Well  Taken at Control Panel

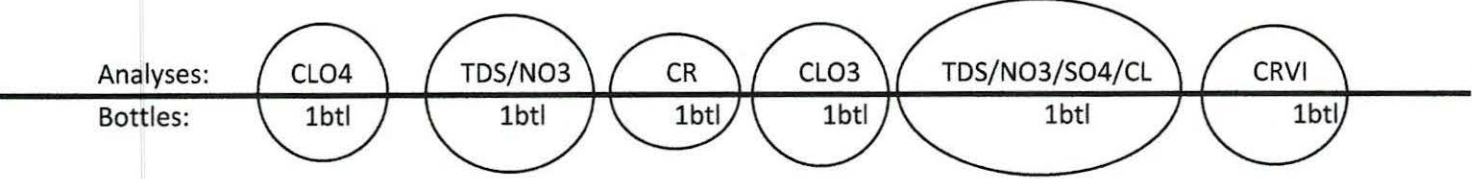
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/10/23 Start Time: 0852

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0853</u>	<u>6.99</u> <small>pH</small>	<u>11.61</u> <small>mS/Cm</small>	<u>27.0</u> <small>°C</small>	<u>*ART-2 and ART-2A running concurrently. Bottles labeled ART-2/2A 2023 0810.</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0856</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: **ART-2A\***

Date(s): **8/10/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **76° cloudy**

DTW ONLY

**Well Depth Information-** Date: **8/10/23** Time: **0805**

Total Well Depth(ft): **NM**  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): **33.51**  
 Manually Taken at Well  Taken at Control Panel

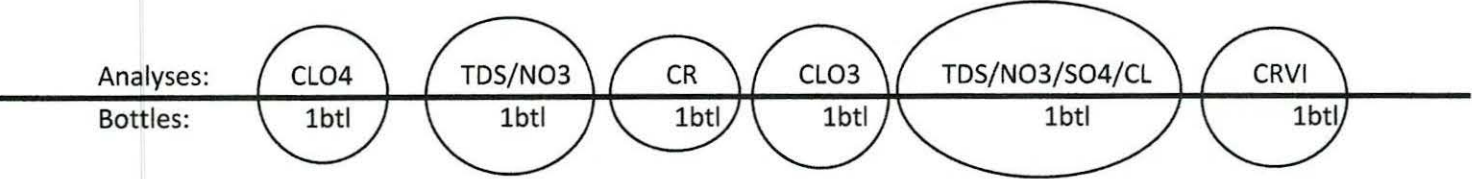
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **8/10/23** Start Time:

Sample Time	pH	EC/MC	Temp	Well Observations
<b>See</b>	<b>ART-2</b>	<b>2</b>	<b>°C</b>	* ART-2 and ART-2A running concurrently. Bottles labeled ART-2/2A 2023 0810.
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: ART-3

Date(s): 8/10/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method: N/A  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 76° cloudy

DTW ONLY

**Well Depth Information-** Date: 8/10/23 Time: 0756

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 35.54  
 Manually Taken at Well  Taken at Control Panel

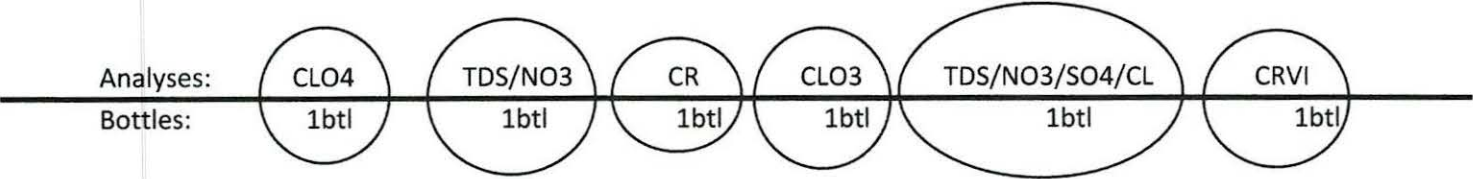
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: \_\_\_\_\_ Start Time: \_\_\_\_\_

Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: **ART-3A**

Project/Site: NERT Project - Henderson Nevada

Date(s): **8/10/23**

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **78 cloudy**

DTW ONLY

**Well Depth Information-** Date: **8/10/23** Time: **0757**

Total Well Depth(ft): **NM**  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **48.19**  
 Manually Taken at Well  Taken at Control Panel

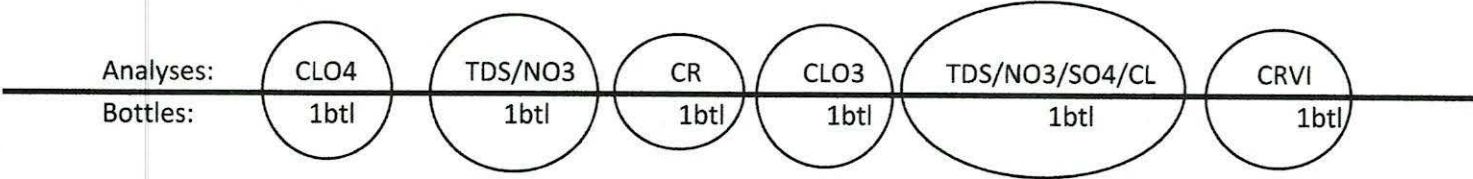
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **8/10/23** Start Time: **0856**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0857</b>	<b>7.15</b> <small>pH</small>	<b>9.58</b> <small>mS/Cm</small>	<b>25.6</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>0859</b>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <b>ART-4</b>
Sampling Team: Emily McGuire	Date(s): <b>8/10/23</b>
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>78 cloudy</b>	

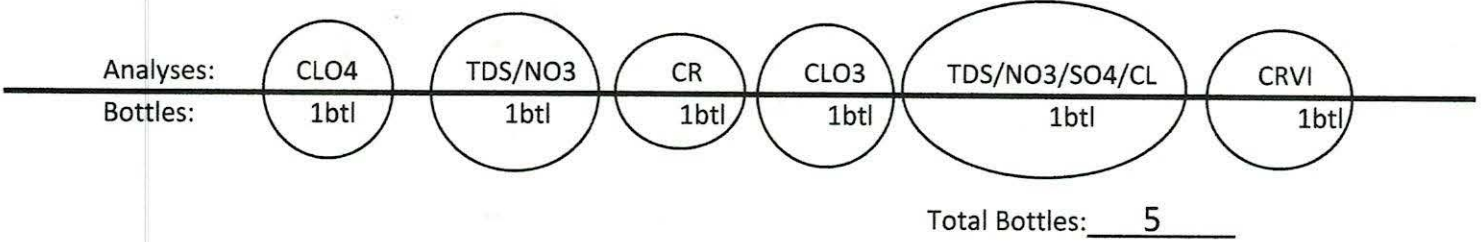
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>8/10/23</b>	Time: <b>0753</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>36.03*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

<b>Field Measurements-</b>					Date: <b>8/10/23</b>	Start Time: <b>0900</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0901</b>	<b>7.50</b> <small>pH</small>	<b>6.26</b> <small>mS/Cm</small>	<b>25.7</b> <small>°C</small>	* measured 2x, wells back to regular lead/lag.		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0904</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <b>ART-4A</b>
Sampling Team: Emily McGuire	Date(s): <b>8/10/23</b>
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>78° cloudy</b>	

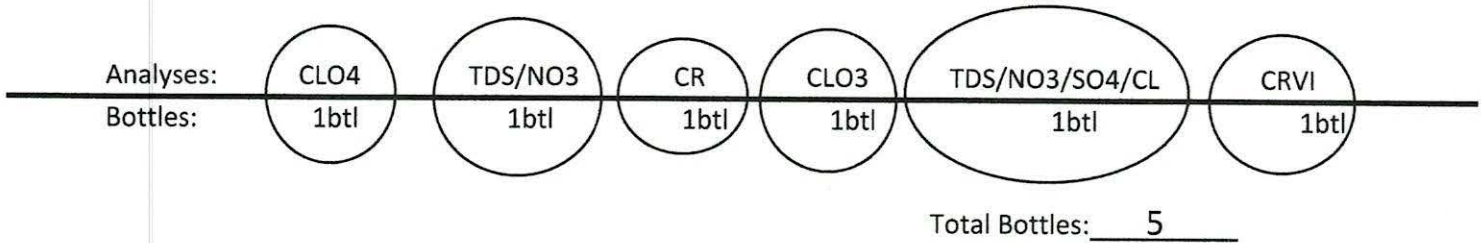
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8/10/23</b>	Time: <b>0754</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>34.68*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	<b>*measured Zx, wells back to regular lead/lag.</b>
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: ART-7A

Date(s): 8/10/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 78° cloudy

DTW ONLY

**Well Depth Information-** Date: 8/10/23 Time: 0741

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 35.72  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

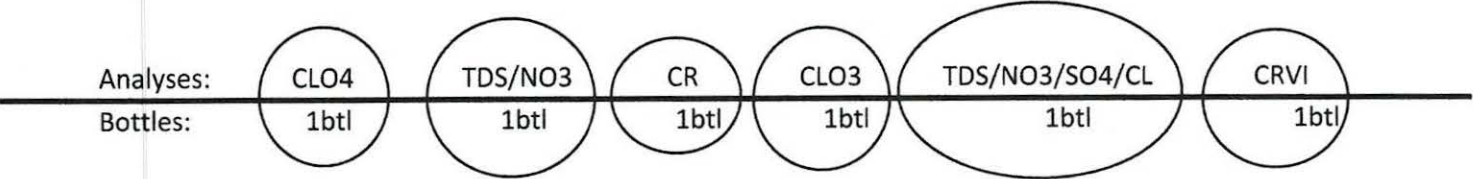
Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/10/23 Start Time: 0905

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0906</u>	<u>7.33</u> pH	<u>8.06</u> mS/Cm	<u>25.1</u> °C	

Sample Appearance: clear w/ bubbles

Finish Time: 0909



Total Bottles: 5

DUP EC Reading	QC
<u>8.08</u> mS/Cm	<u>7.04</u> pH
<u>25.1</u> °C	



# WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <b>ART-7B</b>
Sampling Team: Emily McGuire	Date(s): <b>8   10   23</b>
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>78° cloudy</b>	

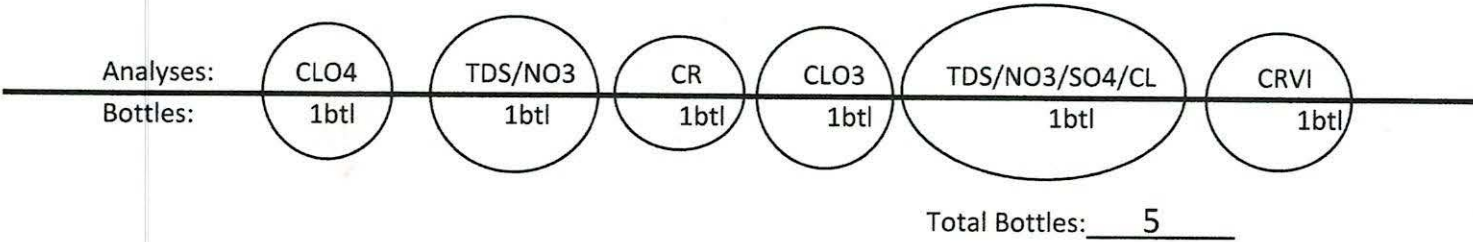
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <b>0743</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>33.27*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>8</b>	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	<b>*measured 2x</b>
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>ART-8</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8   10   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>78° raining</b>	

DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>35.28</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<del>Field Measurements-</del>		<del>Date:</del>	<del>Start Time:</del>
<del>Sample Time</del>	<del>pH</del>	<del>EC/MC</del>	<del>Temp</del>
<del> </del>	<del>pH</del>	<del>mS/Cm</del>	<del>°C</del>
<del>Sample Appearance:</del>		<del>Well Observations</del>	
<del>Finish Time:</del>			

Analyses:	CLO4	TDS/NO3	CR	CLO3	TDS/NO3/SO4/CL	CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl	1btl
					Total Bottles: <u>5</u>	

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-8A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8/10/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>78° raining</b>	

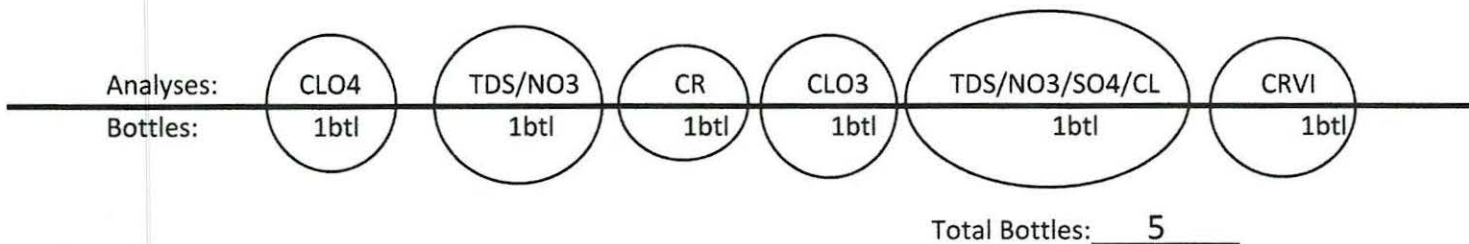
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>8/10/23</b>	Time: <b>0801</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>41.53*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>8/10/23</b>	Start Time: <b>0910</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0911</b>	<b>7.08</b> <small>pH</small>	<b>11.30</b> <small>mS/Cm</small>	<b>15.5</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0914</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <b>ART-9</b>
Sampling Team: Emily McGuire	Date(s): <b>8   10   23</b>
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>78° raining</b>	

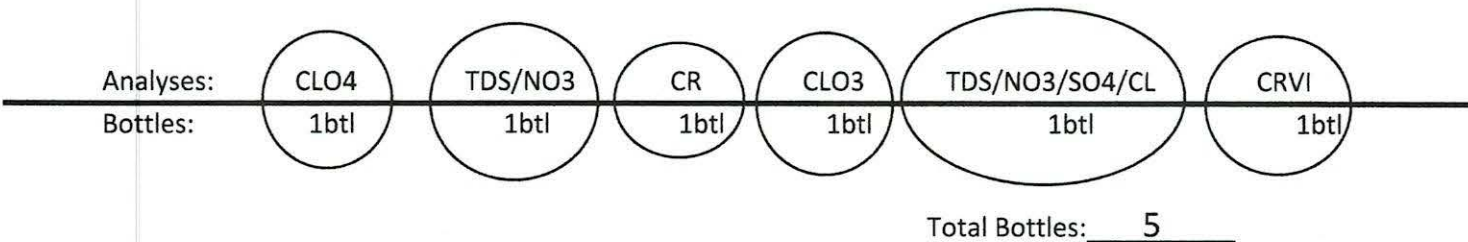
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <b>0745</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.37</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>8   10   23</b>	Start Time: <b>0915</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0916</b>	<b>7.47</b> <small>pH</small>	<b>6.74</b> <small>mS/Cm</small>	<b>25.4</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0919</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: PC-150

Project/Site: NERT Project - Henderson Nevada      Date(s): 8 | 10 | 23

Sampling Team: Emily McGuire

Sampling Method:       Collected From Sample Port       Hand Bailed due to well Location

Weather Conditions:      78° raining

DTW ONLY

**Well Depth Information-**      Date: 8 | 10 | 23      Time: 0751

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft):      40.67  
 Manually Taken at Well       Taken at Control Panel

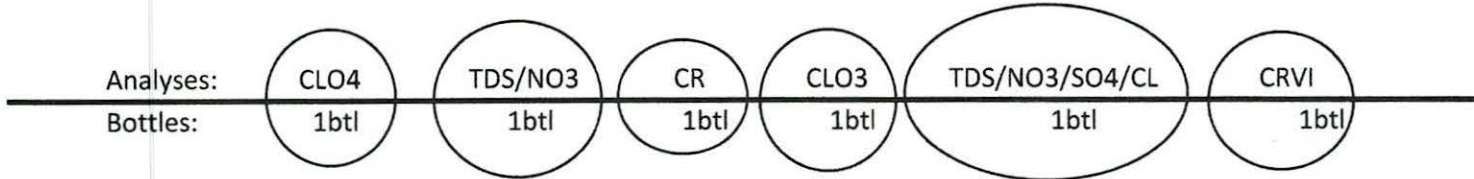
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-**      Date: 8 | 10 | 23      Start Time: 0920

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0920</u>	<u>7.35</u> <small>pH</small>	<u>5.58</u> <small>mS/Cm</small>	<u>26.7</u> <small>°C</small>	<u>* bucket test performed. 1.5 gpm</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0930</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

PC-150 2023 08 10 - FD  
 Collected at the same time for the same analysis before moving on to the next well.  
 PH: 7.35  
 EC: 5.58  
 C: 26.8

# WATER SAMPLING FIELD LOG

	Well: <b>PC-99R2IR3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8   10   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>89° cloudy partly</b>	

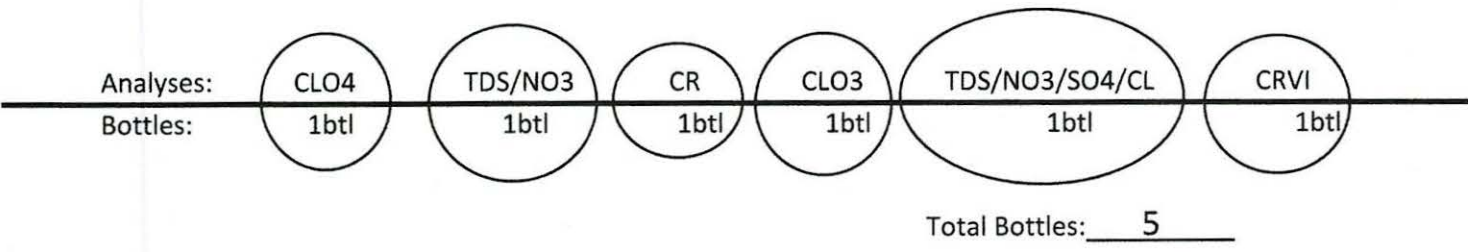
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <b>0630</b>	
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>			
Depth to Water(ft): <b>10.64</b>			
		<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):			

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>8   10   23</b>	Start Time: <b>0844<sup>am</sup> 0948</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b><del>0845</del> 0949</b>	<b>7.37</b> pH	<b>4.41</b> mS/Cm	<b>24.4</b> °C			
Sample Appearance: <b>clear</b>						
Finish Time: <b>0952</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-115R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8   10   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>89° cloudy partly</b>	

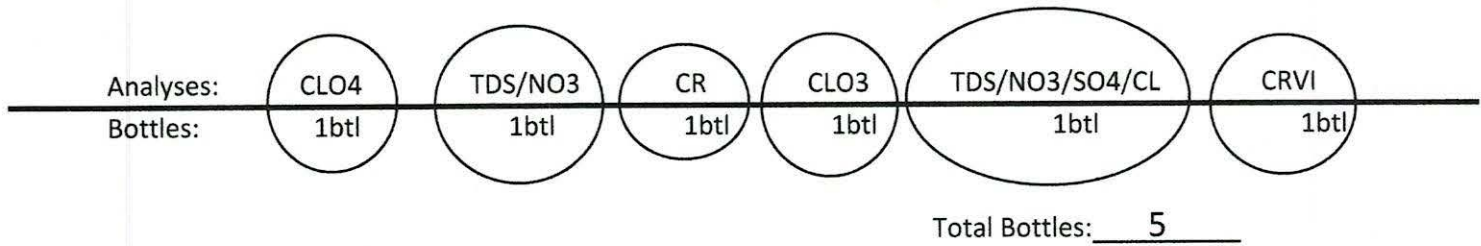
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <b>0707</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>11.52*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>8   10   23</b>	Start Time: <b>0953</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0954</b>	<b>7.11</b> <small>pH</small>	<b>3.59</b> <small>mS/Cm</small>	<b>25.0</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>1001</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

PC-115R 2023 08 10 -FD  
 Collected for the same analysis  
 before moving on to the next well.  
 pH: 7.11  
 EC: 3.59  
 C: 25.1



# WATER SAMPLING FIELD LOG

	Well: <b>PC-116R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8   10   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>89° partly cloudy</b>	

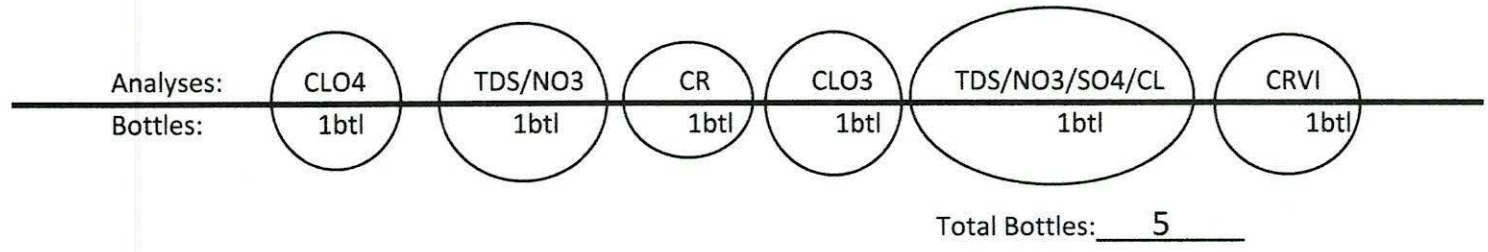
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <b>0702</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>14.40</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>8   10   23</b>	Start Time: <b>1003</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1004</b>	<b>7.11</b> <small>pH</small>	<b>4.43</b> <small>mS/Cm</small>	<b>25.2</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1009</b>					



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

PC-116R 2023 08 10 - EB

Collected for the same analysis before moving on to the next well.

Time: 1007

pH: 8.48  
EC: 0.01  
C: 32.7

## WATER SAMPLING FIELD LOG

Well: PC-117

Date(s): 8 | 10 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 89° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 8 | 10 | 23 Time: 0659

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): 17.81  
 Manually Taken at Well  Taken at Control Panel

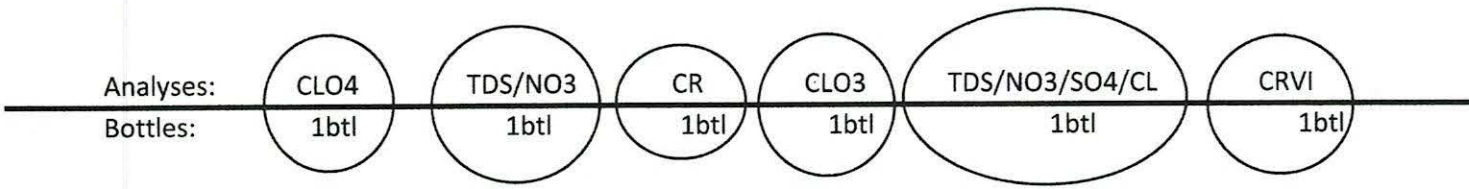
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8 | 10 | 23 Start Time: 1010

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1011</u>	<u>7.16</u> <small>pH</small>	<u>3.82</u> <small>mS/Cm</small>	<u>24.3</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1014</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>3.81</u> <small>mS/Cm</small>	<u>7.02</u> <small>pH</small>
<u>24.1</u> <small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>PC-118</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>8   10   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>06° partly cloudy</b>	

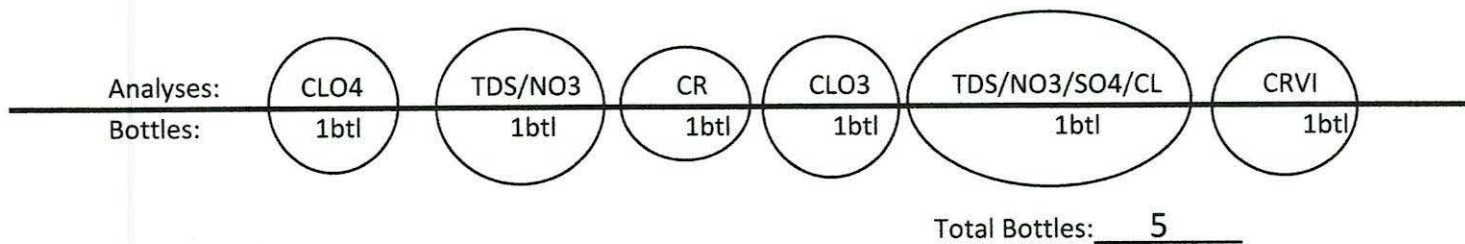
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>8   10   23</b>	Time: <del>0716</del> <b>0712</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <del>5.34</del> <b>7.42*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>8   10   23</b>	Start Time: <b>1014</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>1015</b>	<b>7.33</b> <small>pH</small>	<b>3.17</b> <small>mS/Cm</small>	<b>24.5</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>1019</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: PC-119

Project/Site: NERT Project - Henderson Nevada Date(s): 8 | 10 | 23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 89° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 8 | 10 | 23 Time: 0716

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 5.34  
 Manually Taken at Well  Taken at Control Panel

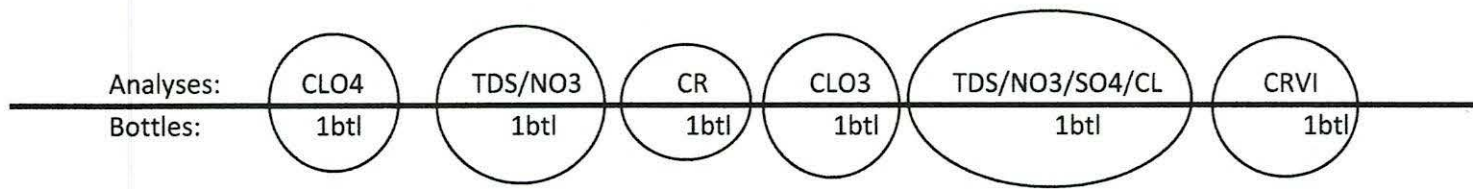
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8 | 10 | 23 Start Time: 1019

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1020</u>	<u>7.23</u> <small>pH</small>	<u>2.81</u> <small>mS/Cm</small>	<u>24.5</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1024</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

Well: PC-120

Date(s): 8 | 10 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 89° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 8 | 10 | 23 Time: 0721

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 4.02  
 Manually Taken at Well  Taken at Control Panel

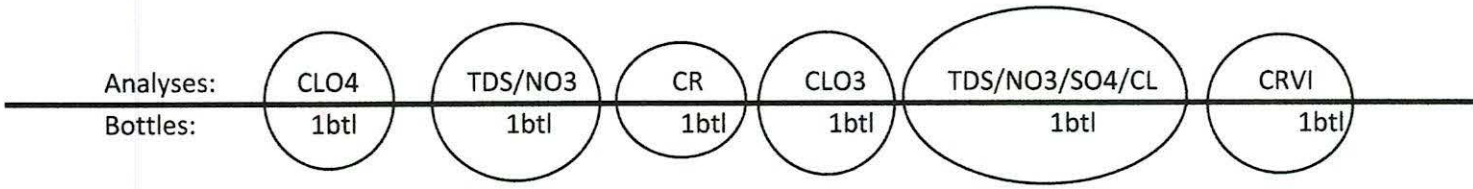
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8 | 10 | 23 Start Time: 1024

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1025</u>	<u>7.29</u> <small>pH</small>	<u>2.61</u> <small>mS/Cm</small>	<u>23.3</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1028</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **PC-121**

Project/Site: NERT Project - Henderson Nevada      Date(s): **8/10/23**

Sampling Team: **Emily McGuire**

Sampling Method:       Collected From Sample Port       Hand Bailed due to well Location

Weather Conditions:      **89° partly cloudy**

DTW ONLY

**Well Depth Information-**      Date: **8/10/23**      Time: **0725**

Total Well Depth(ft): **NM**  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft):      **4.4**  
 Manually Taken at Well       Taken at Control Panel

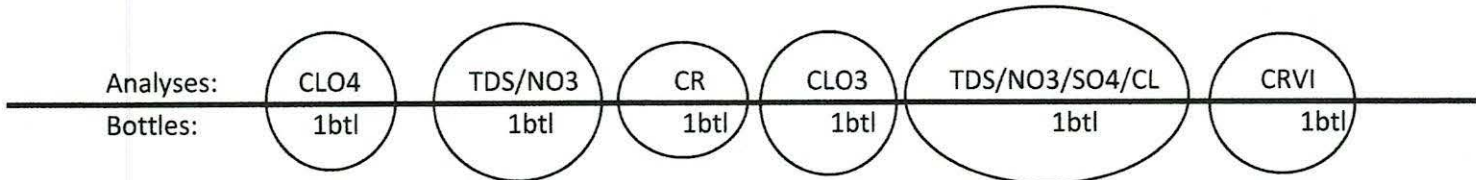
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-**      Date: **8/10/23**      Start Time: **1028**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1029</b>	<b>7.23</b> <small>pH</small>	<b>2.70</b> <small>mS/Cm</small>	<b>24.7</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>1032</b>				



Total Bottles:   5  

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: **PC-133**

Project/Site: NERT Project - Henderson Nevada Date(s): **8 | 10 | 23**

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **89° partly cloudy**

DTW ONLY

**Well Depth Information-** Date: **8 | 10 | 23** Time: **0656**

Total Well Depth(ft): **NM**  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): **11.91\***  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **8 | 10 | 23** Start Time: **1033**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1034</b>	<b>7.23</b> <small>pH</small>	<b>3.07</b> <small>mS/Cm</small>	<b>25.2</b> <small>°C</small>	<b>*measured 2x, meter getting caught on something. Further evaluation needed.</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>1037</b>				

Analyses:

CLO4

TDS/NO3

CR

CLO3

TDS/NO3/SO4/CL

CRVI

Bottles:

1btl

1btl

1btl

1btl

1btl

1btl

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: E1-1

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° Sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 0739

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 44.52  
 Manually Taken at Well  Taken at Control Panel

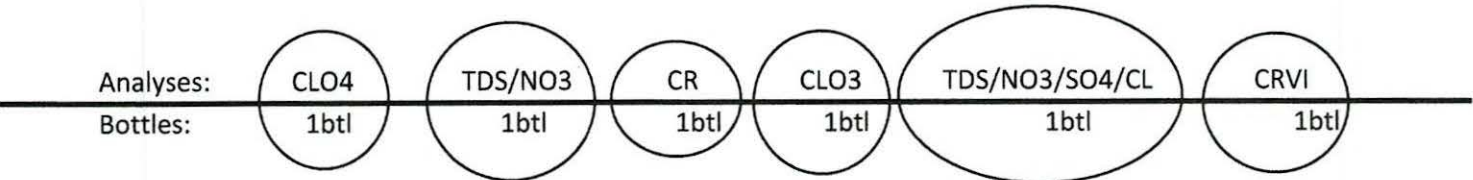
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 0749

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0750</u>	<u>6.95</u> pH	<u>4.69</u> mS/Cm	<u>27.8</u> °C	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0755</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: E1-2

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 0741

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): 44.40  
 Manually Taken at Well  Taken at Control Panel

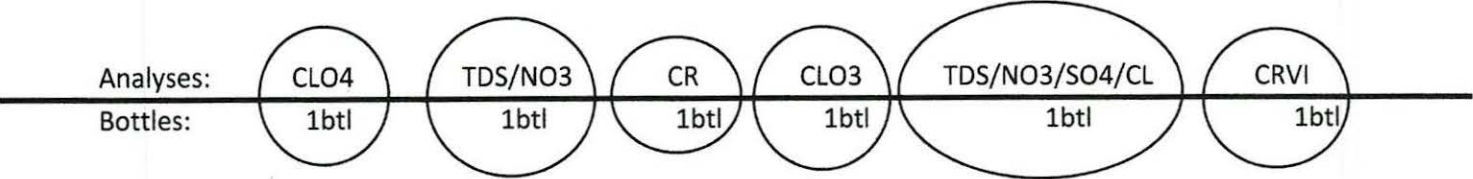
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 0756

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0757</u>	<u>7.09</u> <small>pH</small>	<u>6.18</u> <small>mS/Cm</small>	<u>27.3</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0801</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: 21-3

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 0743

Total Well Depth(ft): NM  
(*'NM'*) - No measurement taken, manually measured annually)

Depth to Water(ft): 42.91  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

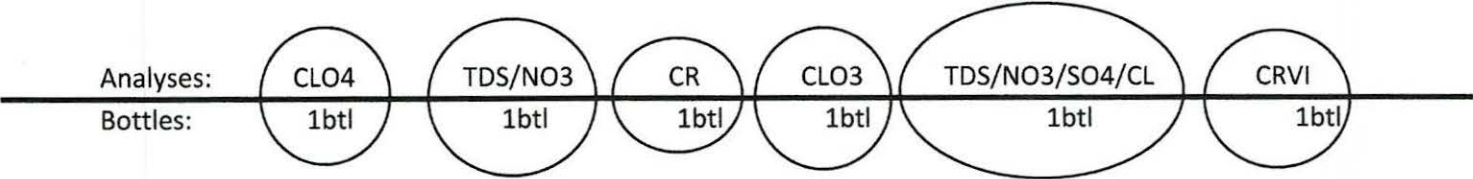
Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 0802

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0803</u>	<u>7.02</u> <small>pH</small>	<u>5.68</u> <small>mS/Cm</small>	<u>27.9</u> <small>°C</small>	

Sample Appearance: clear

Finish Time: 0807



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: E2-1

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 0811

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 39.16  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

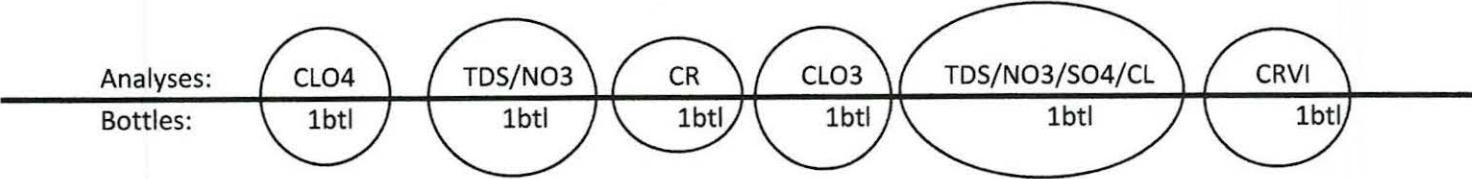
Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 0825

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0826</u>	<u>7.26</u> <small>pH</small>	<u>3.60</u> <small>mS/Cm</small>	<u>25.5</u> <small>°C</small>	

Sample Appearance: clear

Finish Time: 0830



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: 92-2

Date(s): 8/8/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 88° Sunny

DTW ONLY

**Well Depth Information-** Date: 8/8/23 Time: 0813

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 40.42  
 Manually Taken at Well  Taken at Control Panel

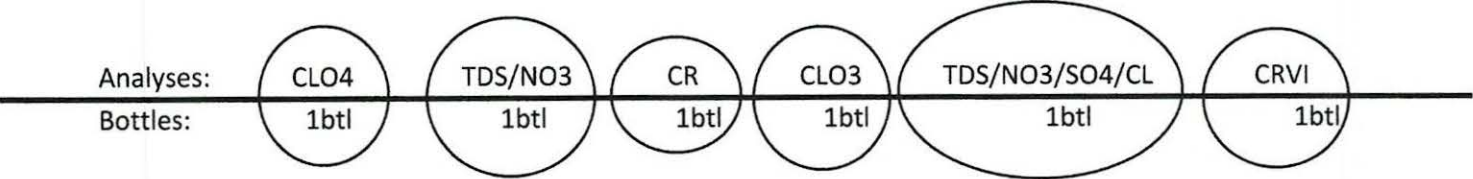
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 8/8/23 Start Time: 0832

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0833</u>	<u>7.08</u> pH	<u>5.12</u> mS/Cm	<u>26.6</u> °C	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0838</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>5.13</u> mS/Cm	<u>7.03</u> pH
<u>26.6</u> °C	



# WATER SAMPLING FIELD LOG

	Well: <u>E2-3</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8/8/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>88° Sunny</u>	

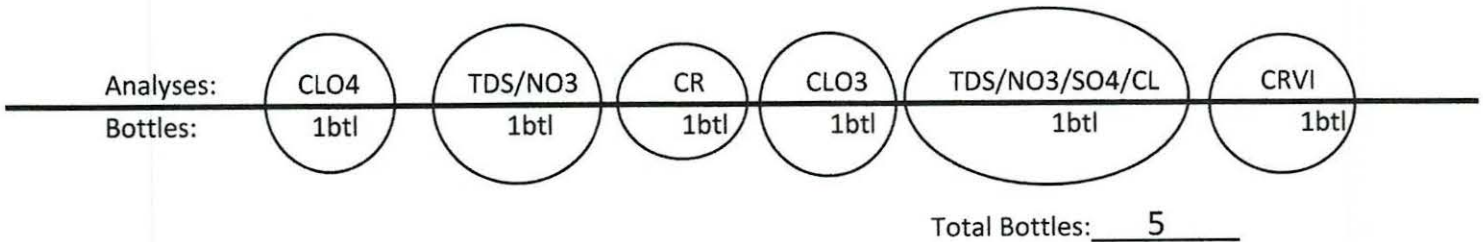
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/8/23</u>	Time: <u>0815</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>43.79</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <u>8/8/23</u>	Start Time: <u>0840</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0841</u>	<u>7.11</u> <small>pH</small>	<u>5.19</u> <small>mS/Cm</small>	<u>26.8</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0851</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	

*E2-3 2023 08 08 - FD  
 Collected at the same time for the same analysis before moving to the next well.  
 pH: 7.09  
 EC: 5.20  
 C: 26.8*

# WATER SAMPLING FIELD LOG

	Well: <u>22-4</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8/8/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>88° Sunny</u>	

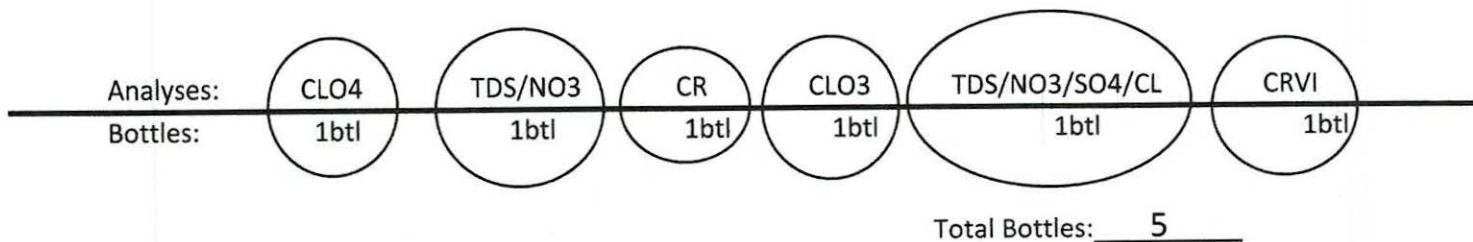
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/8/23</u>	Time: <u>0818</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>39.88</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>8/8/23</u>	Start Time: <u>0905</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0906</u>	<u>7.18</u> <small>pH</small>	<u>5.50</u> <small>mS/Cm</small>	<u>27.3</u> <small>°C</small>			
Sample Appearance: <u>clear</u>						
Finish Time: <u>0912</u>						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

22-4 2023 08 08 - EB  
 Collected for the same analysis before moving on to the next well.  
 pH: 8.67  
 EC: 0.18  
 C: 24.1  
 Time: 0909



# WATER SAMPLING FIELD LOG

	Well: <u>82-5</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>8/8/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>88° sunny</u>	

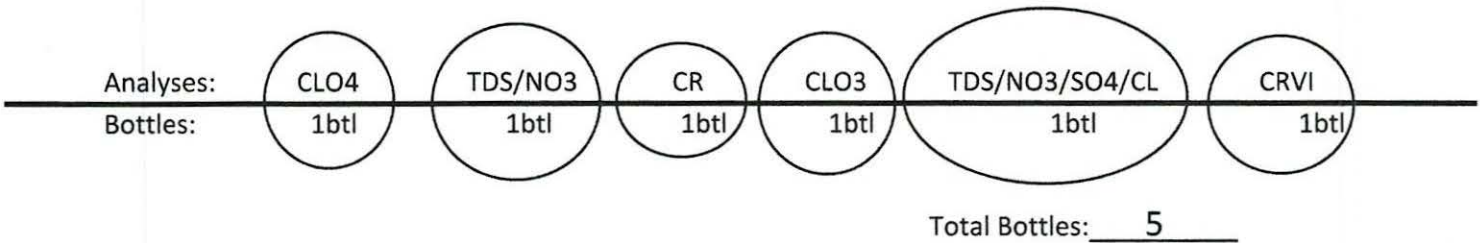
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>8/8/23</u>	Time: <u>0821</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>48.59</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>8/8/23</u>	Start Time: <u>0913</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0914</u>	<u>6.97</u> <small>pH</small>	<u>6.00</u> <small>mS/Cm</small>	<u>27.5</u> <small>°C</small>		
Sample Appearance: <u>clear</u>					
Finish Time: <u>0918</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	





## ETI Daily Sampling Log Sheet

Date:	Well Field(s):	Start Time:	Finish Time:	
8/1/23	IWF	0630	0918	
Time In	Time Out	Name	Signature	Company/Purpose
0630	0918	E. McGuire	<i>E. McGuire</i>	ETI / Sampling
Time	Observation			
0630	Presampling prep.			
0641	Calibrated pH/EC meter.			
0646	Collected DTW's on West IWF.			
0705	Sampled West IWF			
0711	I-AB online for sampling.			
0806	Completed West IWF			
0812	Sampled Middle IWF and collected manual DTW's.			
0918	Completed sampling.			
Completed By: <i>E. McGuire</i>				

## DAILY SAMPLING RIG INSPECTION SHEET

Date: 8/1/23 Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: <u>0630</u>
Wells to be sampled today: <u>IWF West &amp; Middle</u>		
Dangers and hazards with wells to be sampled: <u>Hex</u>		
Name: <u>Emily McGuire</u>	Signature: <u>E. McGuire</u>	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: <u>0633</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <u>0635</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





DAILY MAINTENANCE AND CALIBRATION LOG

Date: 8/1/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0643/ sm
Temp Comp Value	25	
Calibration Value	1289	
Standard Temp	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0641/ sm
Calibration Value	7.01	6.02	
Buffer Temp	25.0	25.0	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-S	6.59	27.1	6.59	27.2
1-X	9.00	26.7	9.00	26.7

QC's
6.98
6.99
Closing QC
6.99

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:







DAILY MAINTENANCE AND CALIBRATION LOG

Date: 8/8/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0645 Em
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.0	
Changed Buffers		Yes <input checked="" type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0652 Em
Calibration Value	7.01	6.04	
Buffer Temp	25.0	25.1	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
82-2	5.12	26.6	5.13	26.6
1-U	8.95	29.5	8.95	29.5

QC's
7.03
7.03
Closing QC
7.04

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:



## DAILY SAMPLING RIG INSPECTION SHEET

Date: 8/18/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0630
Wells to be sampled today: APS and IWF East		
Dangers and hazards with wells to be sampled: Hex		
Name: Emily McGuire	Signature: E. McGuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0635
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0640
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		







## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 8/9/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0636 gm
Temp Comp Value	25	
Calibration Value	1292	
Standard Temp	25.0	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0633 gm
Calibration Value	7.01	6.04	
Buffer Temp	25.1	24.9	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-J	4.93	26.4	4.93	26.4

QC's
7.03
Closing QC
7.01

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: 



## DAILY SAMPLING RIG INSPECTION SHEET

Date: 8/19/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: <u>0640</u>
Wells to be sampled today: <u>IWF-Borman</u>		
Dangers and hazards with wells to be sampled: <u>Hex/drilling</u>		
Name: <u>Emily McGuire</u>	Signature: <u>E. McGuire</u>	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: <u>0642</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <u>0645</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		







DAILY MAINTENANCE AND CALIBRATION LOG

Date: 8/10/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0615 Em
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	24.9	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0618 Em
Calibration Value	7.01	5.99	
Buffer Temp	25.1	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp

QC's
Closing QC

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:



### DAILY SAMPLING RIG INSPECTION SHEET

Date: **8/10/23** Completed By: **Emily McGuire**

<b>Pre Sampling Safety Meeting-</b>		Time: <b>0623</b>
Wells to be sampled today: <b>AWF + SWF</b>		
Dangers and hazards with wells to be sampled: <b>Hex / Vehicular</b>		
Name: <b>Emily McGuire</b>	Signature: 	
Name: <b>Thomas McDaniel</b>	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: <b>0625</b>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <b>0627</b>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		



# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie and Chris Stubbs, Ramboll

---

**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, John Crowther, Jon Hunt, Emeryville Lab Data, Ramboll  
Dana Grady, Tetra Tech

---

**From:** Jesse Bunkers and Dylan Begley, Tetra Tech

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**Date:** August 18, 2023

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**Subject:** August 2023 Monthly Las Vegas Wash Surface Water Sampling  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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## MONTHLY SURFACE WATER SAMPLING ACTIVITIES

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the August 2023 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The 10 surface water sample locations described in the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3*, dated December 2022, are shown on **Figure 1**. Tetra Tech collected 30 independent samples from 10 sample locations within the Las Vegas Wash (the Wash) and a channel flowing into the Wash (C-1 Channel) on August 1 and August 2, 2023. Sample collection within the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximated mid-water depth using the discrete hand-sample technique described in the SAP. During sampling of the C-1 Channel, the channel width, depth of water, and flow rate were measured and documented for each sample location in the surface water sampling logs.

Samples were stored in coolers at 4 degrees Celsius and transferred under chain-of-custody documentation to Eurofins Environment Testing Southwest (Eurofins) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids (TDS) using EPA Methods 314.0, 300.1B, and SM2540C, respectively. Analysis of TDS is not included in the SAP; however, February 9, 2023, discussions with Ramboll identified that monthly surface water samples should be analyzed for TDS and the SAP tables will be revised to reflect this addition. The Eurofins Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the August 2023 sampling event are as follows:

- Field personnel were not able to sample the designated location for LVW5.3-2 due to the presence of a sandbar. An alternative sample location was selected for LVW5.3-2. The sample was collected as close as possible to the original sample location, approximately 17 feet west of the original sample location and recorded with a handheld GPS at coordinates: 36.09006° N, -114.97336° W.
- Field personnel were not able to sample the designated location for LVW5.3-6 due to encroachment of bank vegetation that hindered access to the designated location. An alternative sample location was selected for LVW5.3-6. The sample was collected as close as possible to the original sample location, approximately 13 feet west of the original sample location and recorded with a handheld GPS at coordinates: 36.09065° N, -114.97401° W.
- Field personnel were not able to sample the designated location for LVW4.2-4 due to encroachment of bank vegetation that precluded access to the designated location. The sample was collected as close as possible to the original sample location, approximately 11 feet south of the original sample location and recorded with a handheld GPS at coordinates: 36.09507° N, -114.95475° W.
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.
- Conductivity data were erroneous due to a malfunctioning water quality sensor at the following surface water locations:
  - LVW4.75-1
  - LVW4.75-2
  - LVW6.05
  - LVW6.6-1
  - LVW6.6-2
  - LVW6.6-3
  - LVW7.2
  - LVW8.85

Surface water sampling logs are provided as Attachment A. Field investigation daily logs and the calibration certification form are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.

## CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the August 2023 Monthly Las Vegas Wash Surface Water Sampling Summary



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

August 18, 2023

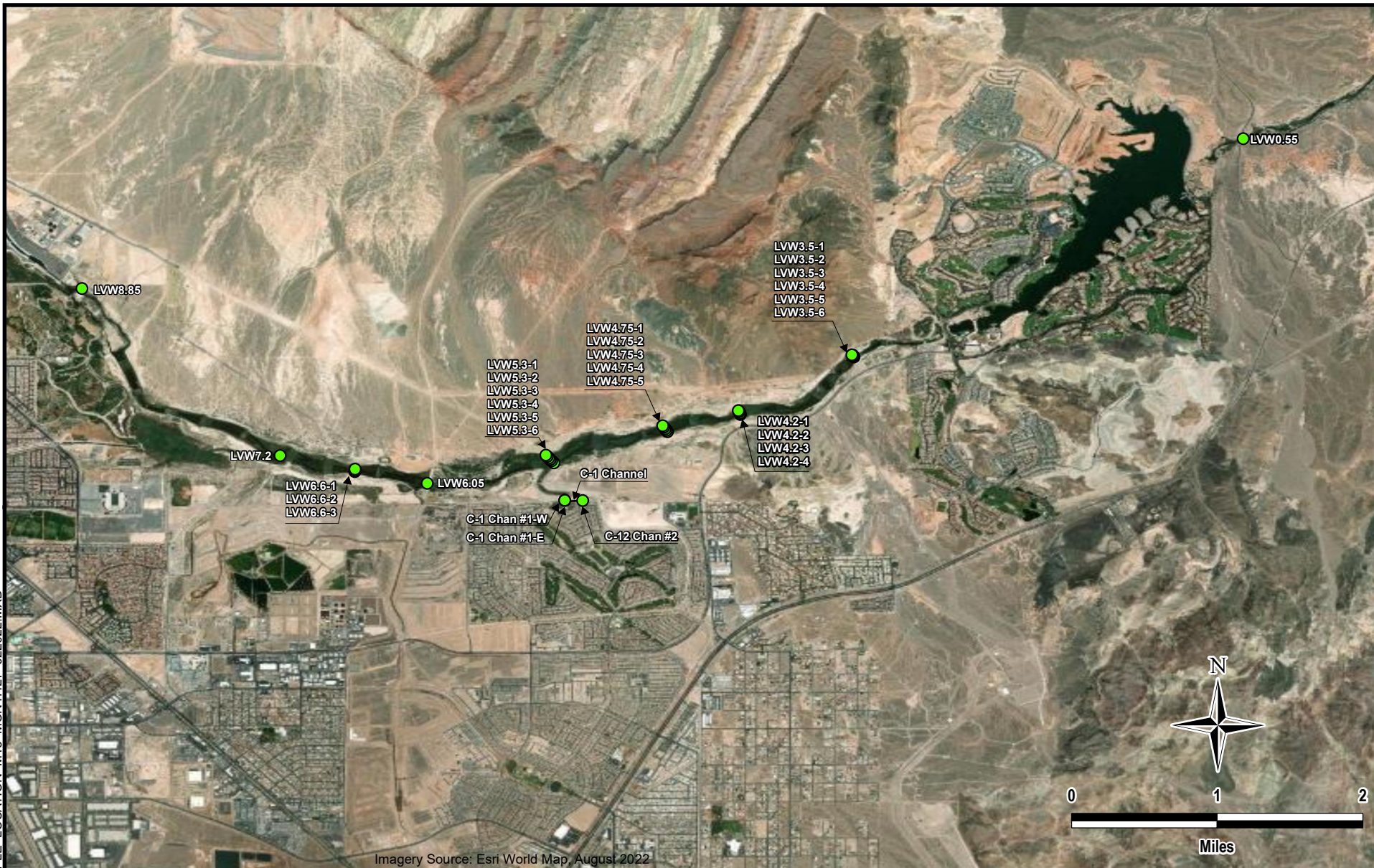
Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024



**Figure**

D:\INERTM15\MXD\SAMPLE LOCATION M15 MONTHLY 022022.MXD



**Legend**

- Monthly Sample Locations

**Tt TETRA TECH**

www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH MONTHLY SAMPLING  
HENDERSON, NEVADA

**LAS VEGAS WASH SAMPLE POINT LOCATIONS**

Project No.: 117-7502023

Date: FEBRUARY 13, 2023

Designed By: AAM

Figure No.  
**1**

# **Attachment A**

## **Surface Water Sampling Logs**





## SURFACE WATER SAMPLING LOG

NERT, Henderson, NV

Task Name: LVW Surface Water Sampling		Task Manager: Dylan Begley			Task No: M15		Date: 8/1/2023				
Field Samplers: J. Bunkers, J. Heintz			Sampling Method: Dipper Bottle			Equipment Decon. Method: DI Rinse					
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
13:15	C1-E	0.0	0.0	27.2	8.00	4.688	8.33	228.0	0.1	Clear	None
13:15	C1-W	0.0	0.0	27.0	7.81	4.836	7.89	237.5	0.2	Clear	None
09:30	LVW 0.55	2.0	1.0	28.2	7.90	2.225	8.40	267.6	4.2	Clear	None
10:15	LVW 3.5-1	2.4	1.2	27.8	8.03	2.277	8.84	261.0	1.4	Clear	None
10:15	LVW 3.5-2	2.0	1.0	27.8	8.06	2.277	8.78	263.1	1.9	Clear	None
10:15	LVW 3.5-3	2.4	1.2	28.0	8.08	2.264	8.95	260.4	2.2	Clear	None
10:15	LVW 3.5-4	2.4	1.2	28.5	8.17	2.262	9.39	259.3	2.2	Clear	None
10:15	LVW 3.5-5	3.0	1.5	28.6	8.17	2.262	9.38	258.9	2.3	Clear	None
10:15	LVW 3.5-6	3.4	1.7	29.1	8.05	2.285	8.91	261.2	3.0	Clear	None
11:00	LVW 4.2-1	5.4	2.7	28.4	7.94	2.302	7.99	275.8	1.6	Clear	None
11:00	LVW 4.2-2	6.0	3.0	28.8	7.99	2.311	8.12	270.2	2.6	Clear	None
11:00	LVW 4.2-3	6.2	3.1	29.1	7.97	2.321	7.59	270.5	2.0	Clear	None
11:00	LVW 4.2-4	3.4	1.7	29.2	7.94	2.287	7.88	270.8	3.2	Clear	None
11:45	LVW 4.75-1	3.4	1.7	29.2	8.15	0.030	8.30	248.1	2.7	Clear	None
11:45	LVW 4.75-2	2.4	1.2	28.9	8.22	1.111	8.19	245.3	19.1	Clear	None
11:45	LVW 4.75-3	2.2	1.1	29.3	8.31	2.349	8.62	244.2	4.6	Clear	None
11:45	LVW 4.75-4	2.6	1.3	29.3	8.38	2.337	8.71	242.8	2.9	Clear	None
11:45	LVW 4.75-5	2.4	1.2	29.7	8.31	2.364	8.15	244.1	2.7	Clear	None
12:30	LVW 5.3-1	1.6	0.8	32.1	8.49	2.502	7.89	251.5	8.5	Clear	None
12:30	LVW 5.3-2	7.0	3.5	31.4	8.55	2.478	8.12	242.6	1.0	Clear	None
12:30	LVW 5.3-3	3.0	1.5	31.2	8.53	2.465	9.32	240.6	1.3	Clear	None



## SURFACE WATER SAMPLING LOG

NERT, Henderson, NV

Task Name: LVW Surface Water Sampling			Task Manager: Dylan Begley			Task No: M15		Date: 8/1/2023			
Field Samplers: J. Bunkers, J. Heintz			Sampling Method: Dipper Bottle			Equipment Decon. Method: DI Rinse					
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
12:30	LVW 5.3-4	2.0	1.0	30.9	8.49	2.453	8.45	240.0	1.3	Clear	None
12:30	LVW 5.3-5	1.0	0.5	30.8	8.49	2.444	8.92	239.2	2.4	Clear	None
12:30	LVW 5.3-6	0.8	0.4	31.1	8.49	2.449	8.94	239.0	2.2	Clear	None
QA/QC Samples/ID: LVW0.55-1.0-20230801-FD			QA/QC Samples/ID: LVW0.55-20230801-FB				QA/QC Samples/ID:				
QA/QC Sample Time: 9:30			QA/QC Sample Time: 9:30				QA/QC Sample Time:				
<b>C1-E</b>	Flow (L/s): 0.18		<b>C1-W</b>	Flow (L/s): 3.00			<b>C-12</b>	Flow (L/s): _____			
	Width (ft): 0.48    Depth (ft): 0.03			Width (ft): 0.80    Depth (ft): 0.08				Width (ft): _____ Depth (ft): _____			
<b>Observations/Comments:</b>											



# SURFACE WATER SAMPLING LOG

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 8/2/2023
---------------------------------------	----------------------------	--------------	----------------

Field Samplers: D. Begley, J. Bunkers, J. Heintz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
--	--------------------------------	-----------------------------------

Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
08:15	LVW 6.05	2.0	1.0	26.8	6.38	0.010	7.53	353.9	189.7	Clear	None
09:00	LVW 6.6-1	2.0	1.0	27.7	7.44	0.009	7.03	305.3	254.1	Clear	None
09:00	LVW 6.6-2	5.6	2.8	27.3	7.82	0.004	7.70	290.4	465.8	Clear	None
09:00	LVW 6.6-3	1.6	0.8	27.9	7.83	0.002	8.15	291.0	485.1	Clear	None
09:15	LVW 7.2	2.8	1.4	27.4	7.85	0.877	7.17	280.9	450.5	Clear	None
10:15	LVW 8.85	2.6	1.3	28.8	7.95	0.865	6.69	266.3	268.6	Clear	None

QA/QC Samples/ID: LVW6.05-1.0-20230802-FD	QA/QC Samples/ID: LVW6.05-20230802-FB	QA/QC Samples/ID: LVW7.2-1.4-20230802-FD
---	---------------------------------------	--

QA/QC Sample Time: 8:15	QA/QC Sample Time: 8:15	QA/QC Sample Time: 9:15
-------------------------	-------------------------	-------------------------

<b>C1-E</b>	Flow (L/s): _____	<b>C1-W</b>	Flow (L/s): _____	<b>C-12</b>	Flow (L/s): _____
	Width (ft): _____ Depth (ft): _____		Width (ft): _____ Depth (ft): _____		Width (ft): _____ Depth (ft): _____

**Observations/Comments:**



**Attachment B**  
**Field Investigation Daily Logs**



Task Name: LVW Surface Water Sampling

Task Manager: Dylan Begley

Date: 8/1/23

Field Personnel: JH, JB

Task No: M15

Location: Las Vegas Wash

Tablet #: 1

Reported by: JH

Weather Conditions: partly cloudy, chance of rain

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: none

Matters of Safety: slips, trips, drowning

Problems / Concerns and Corrective Actions Taken:

none

Time	Activities
------	------------

0900 Arrive at LVW 0.55, wait for J. Bunkers.

0920 J. Bunkers arrives, H+S meeting

0930 Sample LVW 0.55 + FB + FO.

1005 Sample LVW 3.5-1 thru-6.

1100 Sample LVW 4.2-1 thru-4, (4.2-4: 36.09507°N, -114.95475°W)

1145 Sample LVW 4.75-1 thru-5, Faculty conductivity -1 f-2

1230 Sample LVW 5.3-1 thru-6, (5.3-2: 36.09006°N, -114.97336°W), (5.3-6: 36.09005°N, -114.97336°W)

1315 C12 channel dry, sample C1-E and C1-W. Move to Tr office.

	D	W	T <sub>1</sub>	V <sub>1</sub>	T <sub>2</sub>	V <sub>2</sub>
C1-E	8 mm	145 mm	7.6s	1.4L	8.1s	1.5L
C1-W	28 mm	245 mm	2.5	6L	2.5s	7.5L

1415 Arrive at Tr office, drop samples, calibrate USF.

1530 Done for day.

LVW8.85: 36.107231, -115.019994

LVW5.3-6: 36.090660, -114.973903

LVW4.2-2: 36.094817, -114.954612

LVW7.2: 36.090604, -115.000302

C1-E: 36.086147, -114.972022

LVW4.2-3: 36.094978, -114.954716

LVW6.6-1: 36.089005, -114.992888

C1-W: 36.086147, -114.972022

LVW4.2-4: 36.095108, -114.954806

LVW6.6-2: 36.089155, -114.992828

C12: 36.086125, -114.970255 No Flow

LVW3.5-1: 36.100422, -114.943298

LVW6.6-3: 36.089265, -114.992858

LVW4.75-1: 36.092979, -114.961810

LVW3.5-2: 36.100459, -114.943329

LVW6.05: 36.087849, -114.985682

LVW4.75-2: 36.093130, -114.961928

LVW3.5-3: 36.100548, -114.943390

LVW5.3-1: 36.089867, -114.973112

LVW4.75-3: 36.093277, -114.962051

LVW3.5-4: 36.100585, -114.943405

LVW5.3-2: 36.090072, -114.973322

LVW4.75-4: 36.093431, -114.962174

LVW3.5-5: 36.100606, -114.943451

LVW5.3-3: 36.090218, -114.973467

LVW4.75-5: 36.093580, -114.962301

LVW3.5-6: 36.100645, -114.943493

LVW5.3-4: 36.090367, -114.973612

LVW4.2-1: 36.094695, -114.954570

LVW0.55: 36.122158, -114.904631

LVW5.3-5: 36.090513, -114.973758

Prepared by: Jesse Bunkers

Signature:

Date: 8/1/23



Task Name: LVW Surface Water Sampling

Task Manager: Dylan Begley

Date: 8/2/23

Field Personnel: JB, JH

Task No: M15

Location: Las Vegas Wash

Tablet #: 1

Reported by: J. Bunkers

Weather Conditions: 80-97°F, Part Cloudy, Chance of T-storms

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: None

Matters of Safety:

Heat Stress, Lightening, Rapid Water

Problems / Concerns and Corrective Actions Taken:

Time	Activities
------	------------

0700	Meet sampling team at Tt office, safety review, gather supplies, move to LVW6.05
0815	Collect LVW6.05-1.0 + FD + FB
0900	Collect LVW6.6-1-1.0, -2-2.8, -3-0.8, Family conductivity sensor
0915	Collect LVW7.2-1.4 + FD, Family conductivity sensor
1015	Collect LVW8.85-1.3, make to HOZ, Family conductivity sensor
1200	Hand off samples to lab courier
1300	Done for event

LVW8.85: 36.107231, -115.019994

LVW5.3-6: 36.090660, -114.973903

LVW4.2-2: 36.094817, -114.954612

LVW7.2: 36.090604, -115.000302

C1-E: 36.086147, -114.972022

LVW4.2-3: 36.094978, -114.954716

LVW6.6-1: 36.089005, -114.992888

C1-W: 36.086147, -114.972022

LVW4.2-4: 36.095108, -114.954806

LVW6.6-2: 36.089155, -114.992828

C12: 36.086125, -114.970255 No Flow

LVW3.5-1: 36.100422, -114.943298

LVW6.6-3: 36.089265, -114.992858

LVW4.75-1: 36.092979, -114.961810

LVW3.5-2: 36.100459, -114.943329

LVW6.05: 36.087849, -114.985682

LVW4.75-2: 36.093130, -114.961928

LVW3.5-3: 36.100548, -114.943390

LVW5.3-1: 36.089867, -114.973112

LVW4.75-3: 36.093277, -114.962051

LVW3.5-4: 36.100585, -114.943405

LVW5.3-2: 36.090072, -114.973322

LVW4.75-4: 36.093431, -114.962174

LVW3.5-5: 36.100606, -114.943451

LVW5.3-3: 36.090218, -114.973467

LVW4.75-5: 36.093580, -114.962301

LVW3.5-6: 36.100645, -114.943493

LVW5.3-4: 36.090367, -114.973612

LVW4.2-1: 36.094695, -114.954570

LVW0.55: 36.122158, -114.904631

LVW5.3-5: 36.090513, -114.973758

Prepared by: Jesse Bunkers

Signature:

Date: 8/2/23



# **Attachment C Calibration Logs**

## YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: TAC

DATE: 7/28/23

RENTAL CUSTOMER: TETRA TECH, INC - GOLDEN

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS. 48

SERIAL NUMBER: 19K100092

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>073519</u>
2. pH ZERO	pH 7	/	<u>086097</u>
pH SLOPE	pH 4	/	<u>082792</u>
pH SLOPE	pH 10	/	<u>077102</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	/	N/A
ZERO TEST	(Sodium Sulfite)	N/A	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>072823</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>120522</u>





# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie, Ramboll

---

**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, and Emeryville Lab Data; Ramboll  
Dana Grady, Tetra Tech

---

**From:** Jesse Bunkers and Katelyn Goen

---

**Date:** October 20, 2023

---

**Subject:** **September 2023 Monthly Groundwater Monitoring Summary  
Nevada Environmental Response Trust Site  
Henderson, Nevada**

---

## MONTHLY DEPTH TO WATER MEASUREMENTS

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the September 2023 monthly depth-to-water measurements. This activity was performed in accordance with the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan, Revision 3* dated December 16, 2022 (SAP), which was approved by the Nevada Division of Environmental Protection (NDEP) on January 4, 2023, and *Field Guidance Document No. 008 – Groundwater and Free Product Level Measurements*, dated March 24, 2017.

Figure 1 identifies the 24 monitoring well locations requiring depth-to-water measurements as part of the monthly groundwater monitoring event detailed on Table 3 (Monthly Monitoring Program Summary) of the SAP. Depth-to-water measurements were collected from 23 of the 24 wells on September 6, 2023. A depth to water measurement could not be recorded at M-167 due to lack of water in this well.

The field water level measurement log is included as Attachment A and the field investigation daily log is included as Attachment B. The electronic data deliverable (EDD) with the recorded depth to water data is transmitted separately via email as an Excel file.

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## CERTIFICATION

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I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the September 2023 Monthly Groundwater Monitoring Summary.



---

**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

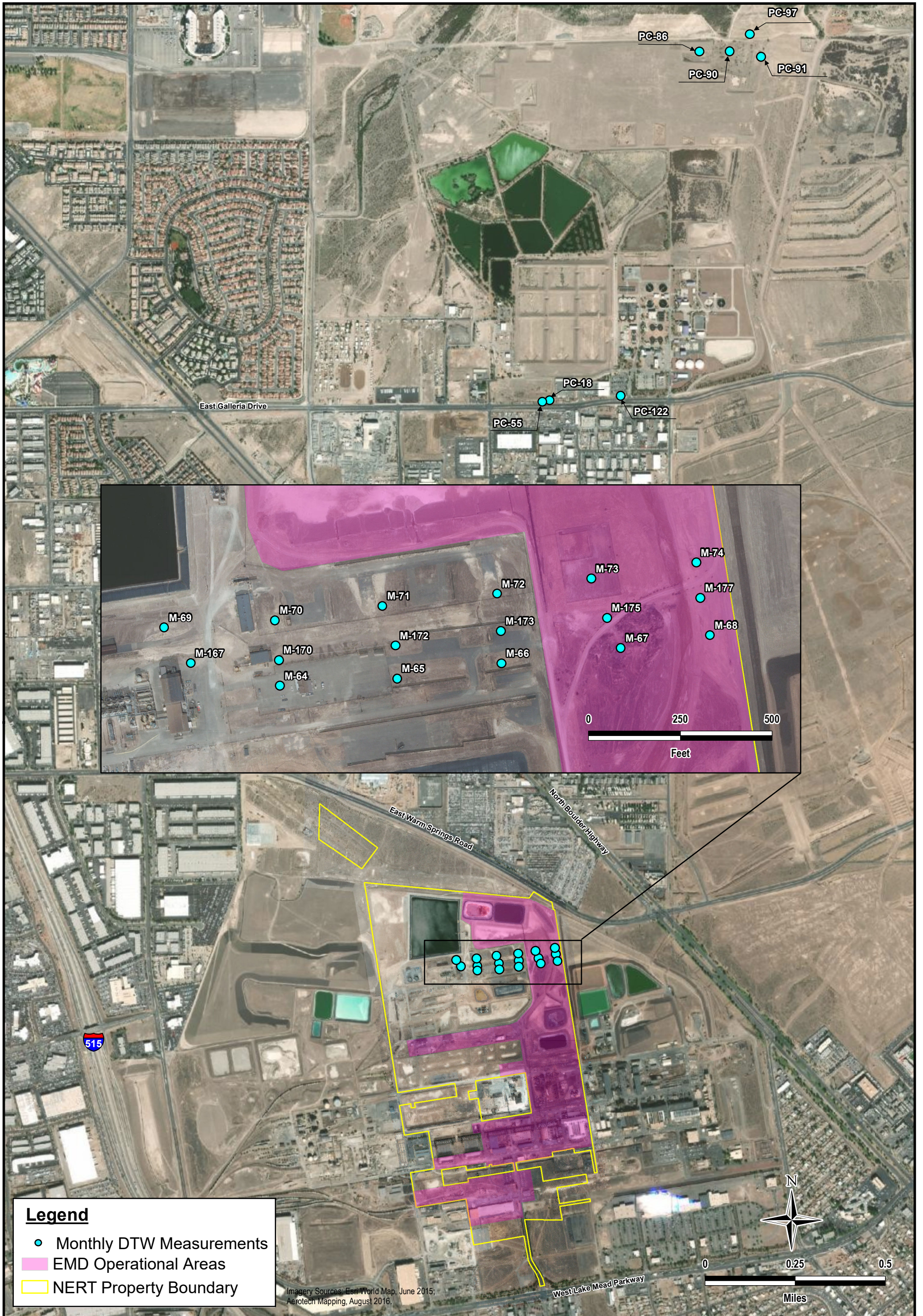
October 20, 2023

Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

**Figure**





P:\BLD01520225\_NERTIGW MONITORING\FIELD MAPS\FIG01\_MONTHLYWLM\_ES.MXD



www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
Phone: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

GROUNDWATER MONITORING PROGRAM  
HENDERSON, NEVADA

MONTHLY WATER LEVEL MEASUREMENT WELLS

Project No.: 117-7502017

Date: JULY 10, 2020

Designed By: ES

Figure No.

1



**Attachment A**  
**Field Water Level Measurement Log**



# WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 9/6/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number(s): 348438	Recorded by: J. Heintz

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
15:20	M-64	TOC	30.82	Good	Y
15:10	M-65	TOC	33.69	Good	N
14:59	M-66	TOC	32.51	Good	DP
14:40	M-67	TOC	23.03	Good	Y
14:34	M-68	TOC	27.62	Good	Y
15:29	M-69	TOC	34.95	Good	N
15:37	M-70	TOC	36.16	Good	DP
15:38	M-71	TOC	35.81	Good	Y
15:42	M-72	TOC	32.35	Good	DP
14:43	M-73	TOC	31.08	Good	Y
14:29	M-74	TOC	30.31	Good	Y
15:26	M-167	--	--	Dry	N
15:16	M-170	TOC	30.76	Good	N
15:12	M-172	TOC	33.82	Good	N
15:06	M-173	TOC	29.93	Good	N
14:36	M-175	TOC	21.97	Good	N
14:30	M-177	TOC	22.56	Good	N
13:24	PC-18	TOC	33.26	Good	Y
13:26	PC-55	TOC	32.05	Good	Y
12:52	PC-86	TOC	8.57	Good	Y
12:46	PC-90	TOC	2.21	Good	Y
12:35	PC-91	TOC	8.01	Good	Y
12:41	PC-97	TOC	1.57	Good	Y
13:03	PC-122	TOC	33.02	Good	Y

BMP = Below Measuring Point    DP = Dedicated Pump    OS = Offsite Storage    TOC = Top of Casing (Well Riser)



**Attachment B**  
**Field Investigation Daily Log**



# September 2023 Sampling Event

DTW readings taken manually for all Interceptor Wells, SWF, AWF and AP5 Wells unless otherwise noted

## Issues/Concerns

IWF, SWF, AWF, AP5 Wells	DTWs taken from PLC except where manual DTWs needed. Manual depths taken with a Geotech Water Level Meter #7035
PC99R2/R3	When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading. Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel
AP5 Wells	Sampled by ETI 2023 09 11. Will be done on a Monthly basis by ETI.
* PC-99R2/R3; PC-115R; PC-116; All have more than 1-foot difference in DTW from 08/2023 to 09/2023. Data recorded on field sheet.	
*PC-117; PC-118; PC-119; PC-120;	
*PC-121; PC-133; ART-1; ART-1A; ART-2; ART-3	
*ART-3A; ART-4A; ART-7B; ART-8; I-AD; I-C;	
*I-E; I-G; I-L; I-M; I-Q; I-S; I-V	
ART-2 and ART-2A	Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2022 09 14.
I-AB, I-AC	DTW taken prior to turning well on to sample, purged prior to collecting sample.
I-Q	DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe.
	Emily McGuire sampled sEPTEMBER 2023.
SWF	Increased DTWs across SWF due to Henderson Water discharging into nearby ponds.

## FD/EB

SWF	PC-117 2023 09 14 – FD	PC-118 2023 09 14 - EB
AWF	ART-2/2A 2023 09 14 – FD	ART-3A 2023 09 14 - EB
IWF	I-P 2023 09 05 – FD	I-Q 2023 09 05 - EB
AP5 Wells	E2-5 2023 09 11 - FD	E1-1 2023 09 11 - EB

\*\*Per email from Emily Gilson dated 4/12/2017 – removed historical\_reference\_elev and water\_level\_elev data from 2017 Groundwater Sampling EDD

Field Forms changes	TWD will be marked with a “NM” not measured, unless a manual reading obtained. Manually record TWD in May
Monthly Table changes	Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18  Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott 7/19/2017
Sampling Changes	Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by Tetra Tech in November and May.



# WATER SAMPLING FIELD LOG

	Well: <b>1-AA</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>partly cloudy 86°</b>	

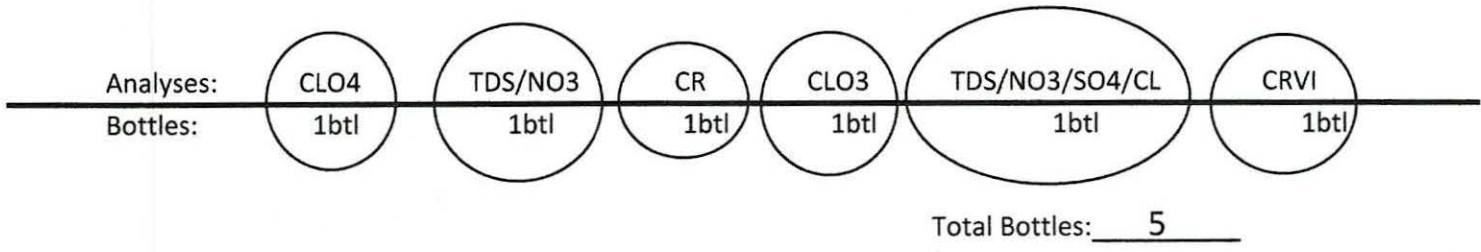
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   12   23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>46.37</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9   12   23</b>	Start Time: <b>0926</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0927</b>	<b>7.32</b> <small>pH</small>	<b>4.63</b> <small>mS/Cm</small>	<b>28.6</b> <small>°C</small>			
Sample Appearance: <b>Clear w/ white floaties</b>						
Finish Time: <b>0930</b>						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

Well: 1-AB

Date(s): 9 | 12 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° Partly cloudy

DTW ONLY

**Well Depth Information-** Date: 9 | 12 | 23 Time: 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 35.67  
 Manually Taken at Well  Taken at Control Panel

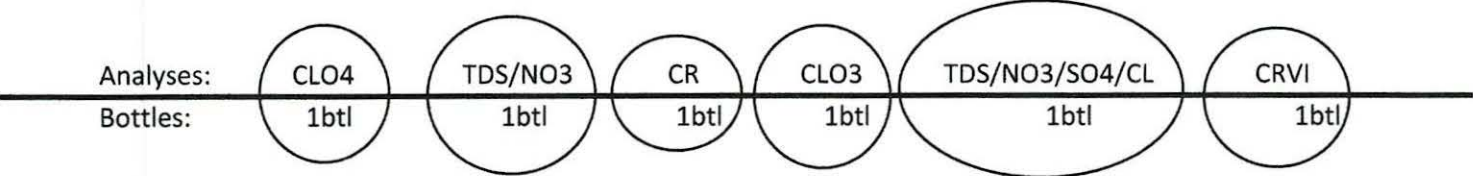
Height of Water Column(ft):

**Well Purge Required**

Turned pump on at 0925, flowing at 4.0 gpm. Purged for 6 minutes, 2 minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_. @6.7gpm

**Field Measurements-** Date: 9 | 12 | 23 Start Time: 0930

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0931</u>	<u>7.27</u> <small>pH</small>	<u>4.95</u> <small>mS/Cm</small>	<u>27.1</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0935</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <u>1-AC</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9</u>   <u>12</u>   <u>23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>85° partly cloudy</u>	

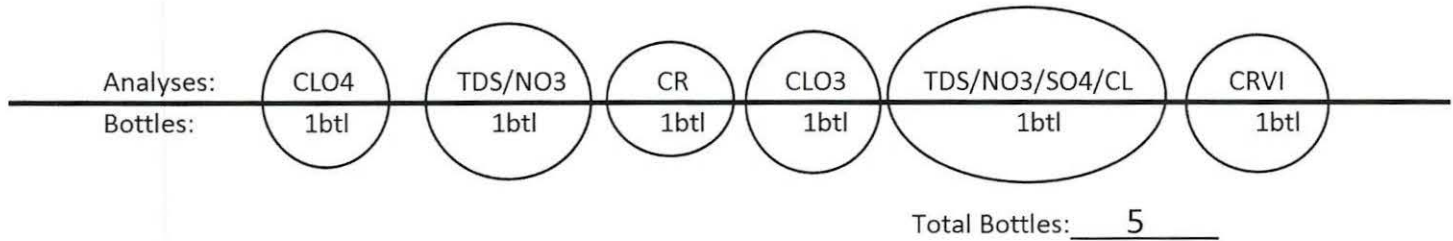
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9</u>   <u>12</u>   <u>23</u>	Time: <u>0700</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>29.71</u>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at <u>0858</u> , flowing at <u>2.8</u> gpm. Purged for <u>5</u> minutes, <u>4</u> minutes required per well purge spreadsheet. Turned well off at <u>0906</u> . <span style="float: right;"><u>@3.7 gpm</u></span>
---

<b>Field Measurements-</b>		Date: <u>9</u>   <u>12</u>   <u>23</u>	Start Time: <u>0858</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0903</u>	<u>7.79</u> <small>pH</small>	<u>6.50</u> <small>mS/Cm</small>	<u>27.9</u> <small>°C</small>	
Sample Appearance: <u>slight yellow tint</u>				
Finish Time: <u>0906</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	

~~1-AC 1025 m~~



# WATER SAMPLING FIELD LOG

	Well: <b>1-AD</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>85° partly cloudy</b>	

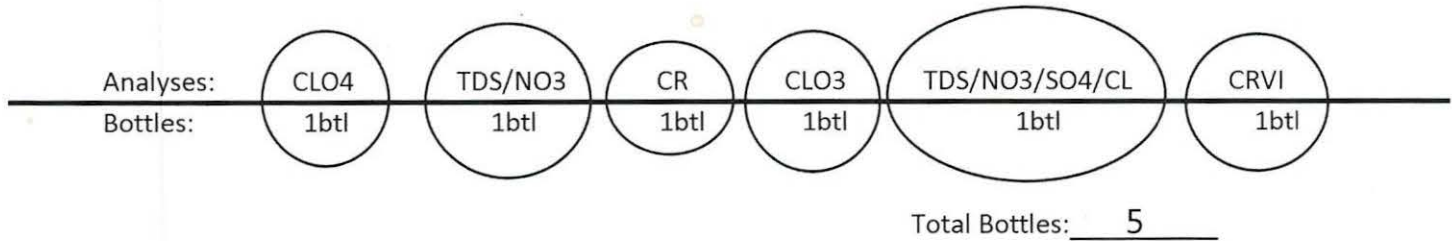
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   12   23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.55*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   12   23</b>	Start Time: <b>0906</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0907</b>	<b>7.35</b> <small>pH</small>	<b>6.47</b> <small>mS/Cm</small>	<b>29.5</b> <small>°C</small>	<b>*manually verified</b>
Sample Appearance: <b>slight yellow tint</b>				
Finish Time: <b>0911</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-AR

Project/Site: NERT Project - Henderson Nevada

Date(s): 9/14/23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions:

DTW ONLY

**Well Depth Information-** Date: 9/14/23 Time: 0655

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 43.32 m 44.34  
 Manually Taken at Well  Taken at Control Panel

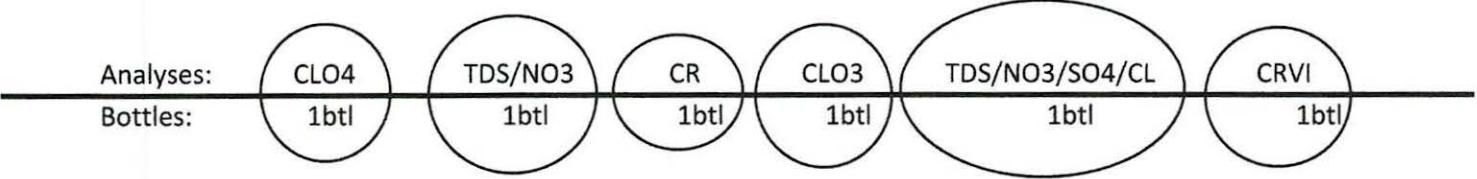
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/14/23 Start Time: 1030

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1031</u>	<u>7.32</u> <small>pH</small>	<u>6.10</u> <small>mS/Cm</small>	<u>29.2</u> <small>°C</small>	
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>1034</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>86° partly cloudy</b>	

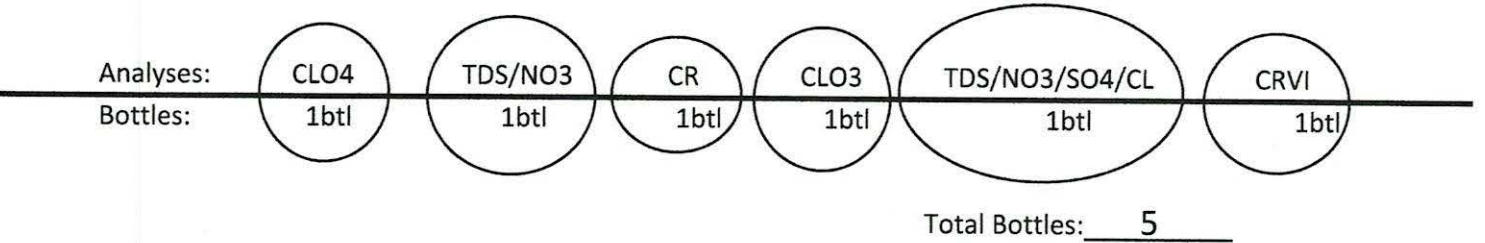
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/12/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.32</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9/12/23</b>	Start Time: <b>0936</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0937</b>	<b>7.25</b> <small>pH</small>	<b>5.11</b> <small>mS/Cm</small>	<b>28.1</b> <small>°C</small>		
Sample Appearance: <b>Clear w/ yellow floaties</b>					
Finish Time: <b>0941</b>					



DUP EC Reading	QC
<b>5.12</b> <small>mS/Cm</small>	<b>6.96</b> <small>pH</small>
<b>28.1</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: 1-C

Date(s): 9/11/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 78°

DTW ONLY

**Well Depth Information-** Date: 9/11/23 Time: 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 37.98\*  
 Manually Taken at Well  Taken at Control Panel

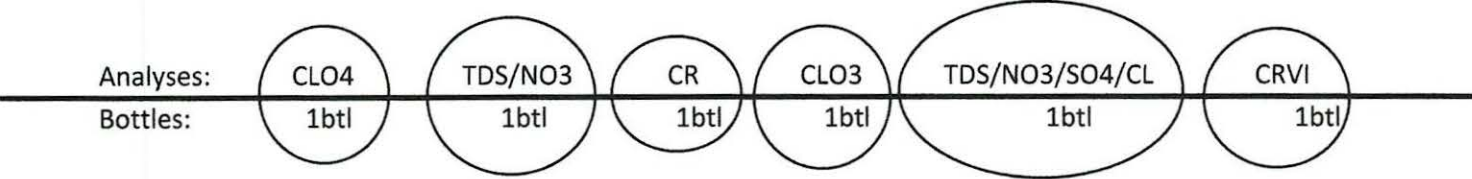
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/11/23 Start Time: 0908

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0909</u>	<u>7.31</u> <small>pH</small>	<u>7.00</u> <small>mS/Cm</small>	<u>26.8</u> <small>°C</small>	<u>*verified manually</u>
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0913</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

## WATER SAMPLING FIELD LOG

	Well: <b>1-D</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/11/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 78°</b>	

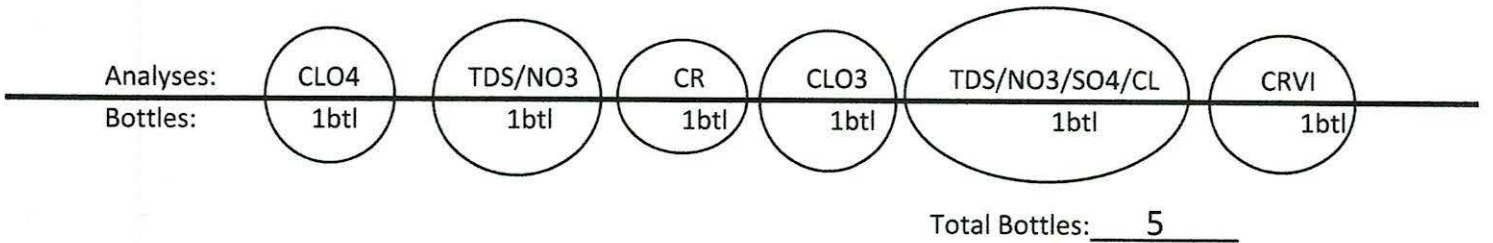
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/11/23</b>	Time: <b>0914</b>
Total Well Depth(ft): NM <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<del>36.79</del> <b>46.79</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9/11/23</b>	Start Time: <b>0914</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0916</b>	<b>7.30</b> <small>pH</small>	<b>7.38</b> <small>mS/Cm</small>	<b>29.8</b> <small>°C</small>		
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0921</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-E

Date(s): 9/11/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: sunny 78°

DTW ONLY

**Well Depth Information-** Date: 9/11/23 Time: 0700

Total Well Depth(ft): NM  
( 'NM' ) - No measurement taken, manually measured annually

Depth to Water(ft): 38.22\*  
 Manually Taken at Well  Taken at Control Panel

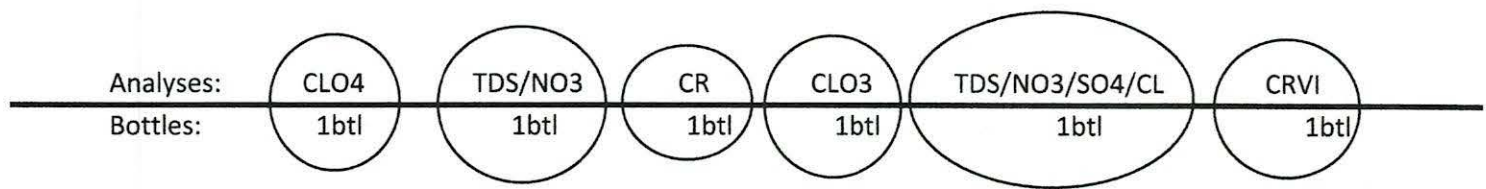
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/11/23 Start Time: 0929

Sample Time	pH	EC/MC	Temp	Well Observations
0930	7.50 pH	7.71 mS/Cm	27.9 °C	*manually verified
Sample Appearance: yellow				
Finish Time: 0933				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-F</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   11   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>sunny 81°</b>	

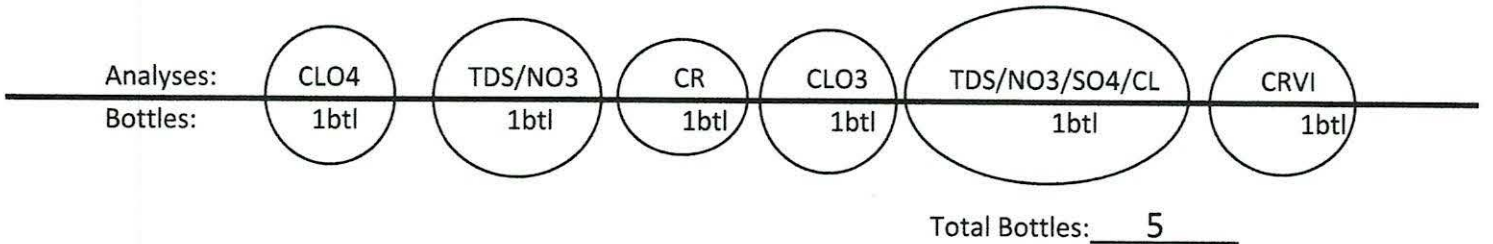
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>9   11   23</b>	Time: <b>0700</b>
Total Well Depth(ft): <b>NM</b> <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>40.19</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9   11   23</b>	Start Time: <b>0946</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0947</b>	<b>7.24</b> <small>pH</small>	<b>8.94</b> <small>mS/Cm</small>	<b>26.6</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0951</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-G

Date(s): 9 | 5 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 74° sunny

DTW ONLY

**Well Depth Information-** Date: 9 | 5 | 23 Time: 0800

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 37.29\*  
 Manually Taken at Well  Taken at Control Panel

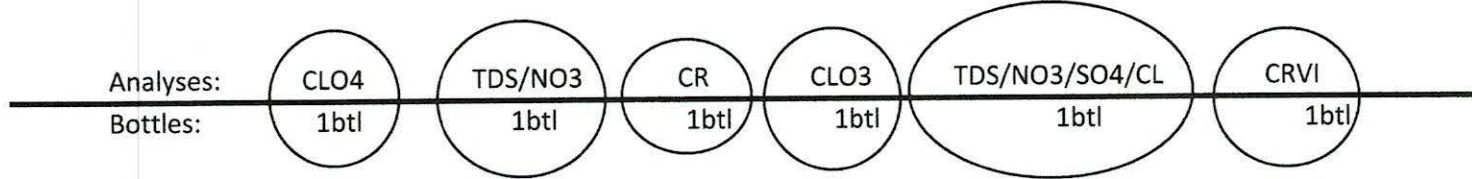
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 5 | 23 Start Time: 0855

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0856</u>	<u>7.27</u> <small>pH</small>	<u>11.37</u> <small>mS/Cm</small>	<u>32.8</u> <small>°C</small>	<del>*measured 2*</del> manually verified
Sample Appearance: <u>bright yellow</u>				
Finish Time: <u>0901</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <u>1-H</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9/5/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>78° sunny</u>	

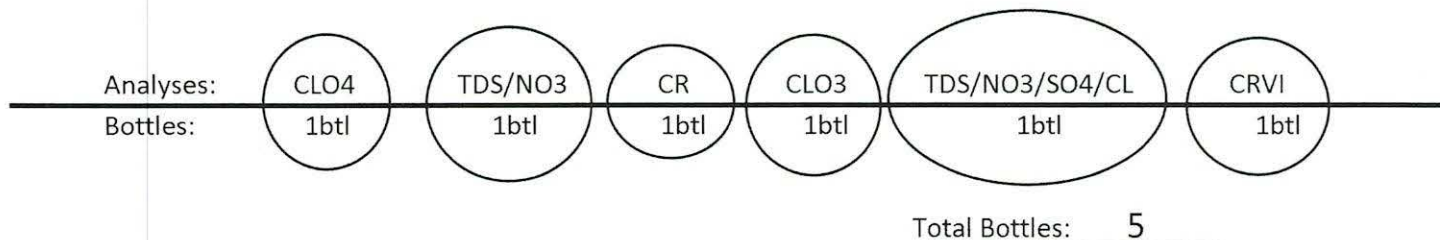
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9/5/23</u>	Time: <u>0800</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>43.56</u>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>9/5/23</u>	Start Time: <u>0914</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0915</u>	<u>7.24</u> <small>pH</small>	<u>9.58</u> <small>mS/Cm</small>	<u>28.6</u> <small>°C</small>			
Sample Appearance: <u>yellow w/black debris</u>						
Finish Time: <u>0919</u>						



DUP EC Reading	QC
<u>9.60</u> <small>mS/Cm</small>	<u>6.97</u> <small>pH</small>
<u>28.8</u> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: 1-1
Project/Site: NERT Project - Henderson Nevada	Date(s): 9/12/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: partly cloudy 84°	

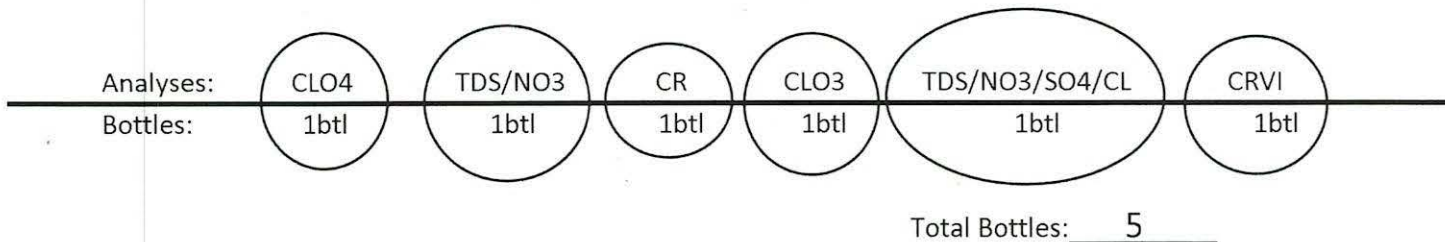
DTW ONLY

<b>Well Depth Information-</b>	Date: 9/12/23	Time: 0700
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 24.71 <input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: 9/12/23	Start Time: 0822
Sample Time	pH	EC/MC	Temp	Well Observations		
0823	7.59 <small>pH</small>	6.63 <small>mS/Cm</small>	26.1 <small>°C</small>			
Sample Appearance: pale yellow						
Finish Time: 0828						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>1-J</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>84° partly cloudy</b>	

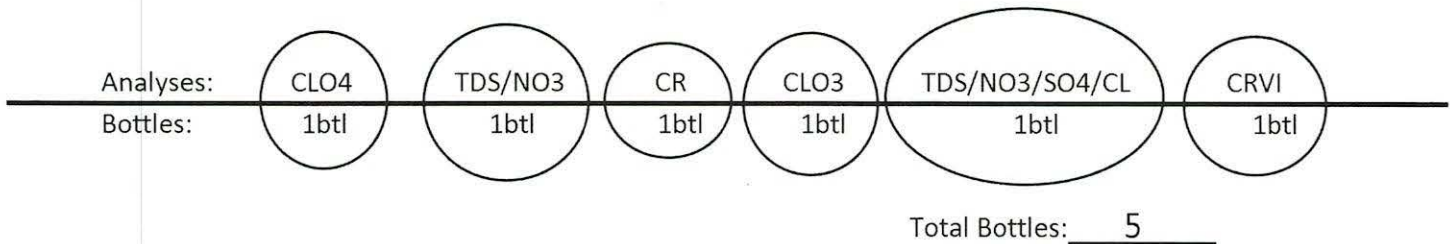
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   12   23</b>	Time: <b>0840</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>42.39</b> <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9   12   23</b>	Start Time: <b>0840</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0842</b>	<b>7.54</b> <small>pH</small>	<b>5.53</b> <small>mS/Cm</small>	<b>26.5</b> <small>°C</small>	Took <del>the</del> DTW manually for PLC DTW check.	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0846</b>					



DUP EC Reading	QC
<b>5.53</b> <small>mS/Cm</small>	<b>6.97</b> <small>pH</small>
<b>26.5</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <b>1-K</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>partly cloudy 85°</b>	

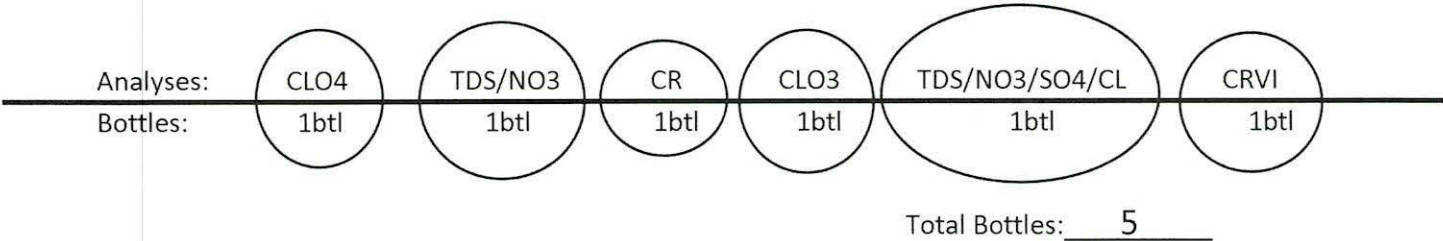
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   12   23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>36.02</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   12   23</b>	Start Time: <b>0852</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0853</b>	<b>7.50</b> <small>pH</small>	<b>6.57</b> <small>mS/Cm</small>	<b>29.4</b> <small>°C</small>	
Sample Appearance: <b>pale yellow w/ fine debris</b>				
Finish Time: <b>0857</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-L

Date(s): 9 | 12 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° Partly Cloudy

DTW ONLY

**Well Depth Information-** Date: 9 | 12 | 23 Time: 0953

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 40.00  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

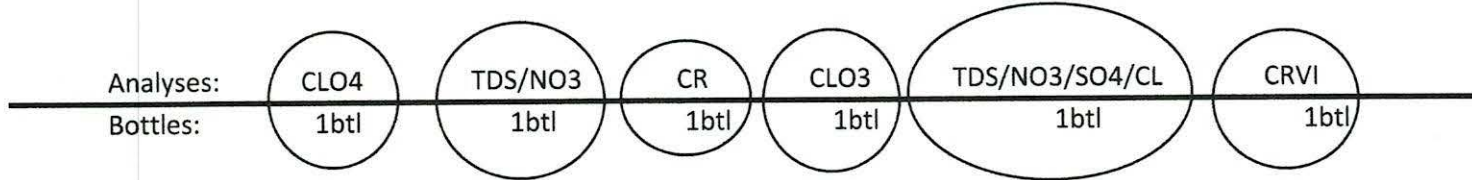
Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 12 | 23 Start Time: 0953

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0955</u>	<u>7.28</u> <small>pH</small>	<u>6.15</u> <small>mS/Cm</small>	<u>28.6</u> <small>°C</small>	

Sample Appearance: Clear w/white floaties

Finish Time: 0959



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <u>1-M</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9/11/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny 78°</u>	

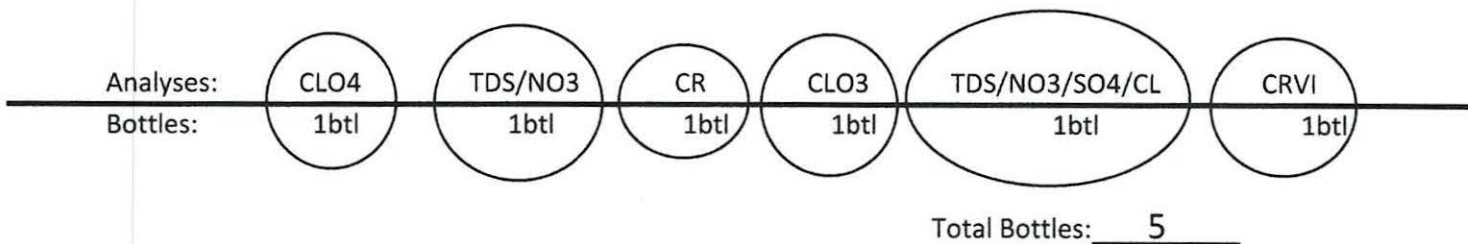
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9/11/23</u>	Time: <u>0700</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>34.82*</u>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>9/11/23</u>	Start Time: <u>0922</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0923</u>	<u>7.41</u> <small>pH</small>	<u>7.99</u> <small>mS/Cm</small>	<u>27.0</u> <small>°C</small>	<u>* manually verified</u>	
Sample Appearance: <u>yellow</u>					
Finish Time: <u>0927</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-17

Date(s): 9/11/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 81°

DTW ONLY

**Well Depth Information-** Date: 9/11/23 Time: 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 36.00  
 Manually Taken at Well  Taken at Control Panel

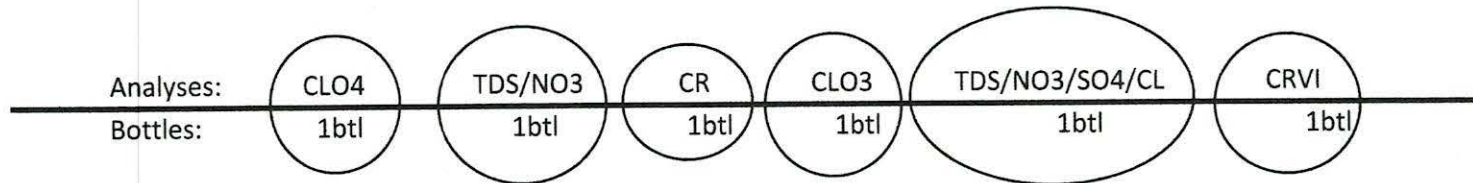
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/11/23 Start Time: 0934

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0935</u>	<u>7.19</u> <small>pH</small>	<u>8.24</u> <small>mS/Cm</small>	<u>28.8</u> <small>°C</small>	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>0940</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>8.27</u> <small>mS/Cm</small>	<u>7.03</u> <small>pH</small>
<u>29.1</u> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: 1-0
Project/Site: NERT Project - Henderson Nevada	Date(s): 9/5/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 80° Sunny	

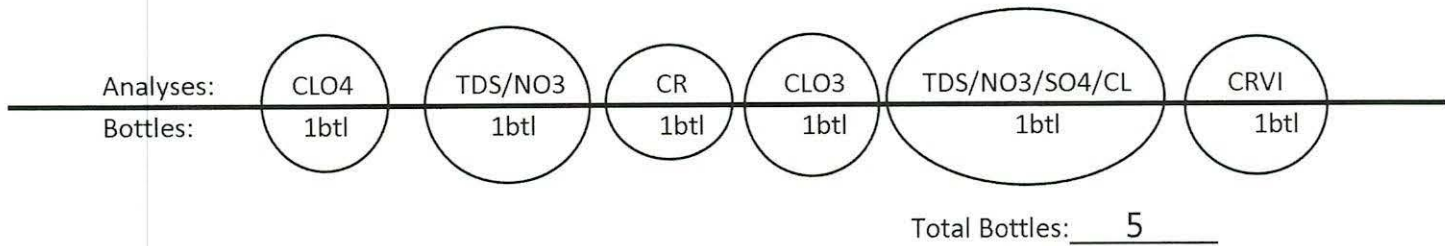
DTW ONLY

<b>Well Depth Information-</b>	Date: 9/5/23	Time: 0800
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): 32.11		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: 9/5/23	Start Time: 0937
Sample Time	pH	EC/MC	Temp	Well Observations		
0938	7.57 <small>pH</small>	8.29 <small>mS/Cm</small>	30.5 <small>°C</small>			
Sample Appearance: bright yellow						
Finish Time: 0942						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

Well: 1-P

Date(s): 9 | 5 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 80° Sunny

DTW ONLY

**Well Depth Information-** Date: 9 | 5 | 23 Time: 0800

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): 42.19  
 Manually Taken at Well  Taken at Control Panel

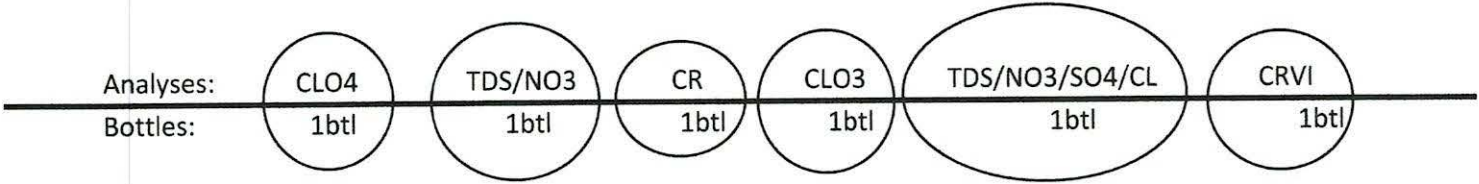
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 5 | 23 Start Time: 0920

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0921</u>	<u>7.48</u> <small>pH</small>	<u>8.80</u> <small>mS/Cm</small>	<u>28.6</u> <small>°C</small>	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>0928</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

1-P 2023 09 05 - FD  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.47  
 EC: 8.77  
 C: 28.7



# WATER SAMPLING FIELD LOG

Well: 1-Q

Date(s): 9 | 5 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 69° 74°

DTW ONLY

**Well Depth Information-** Date: 9 | 5 | 23 Time: 0800

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 36.53  
 Manually Taken at Well  Taken at Control Panel

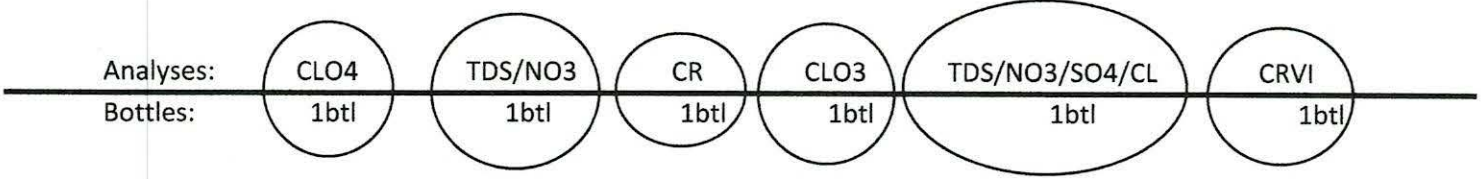
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 5 | 23 Start Time: 0846

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0848</u>	<u>7.19</u> <small>pH</small>	<u>9.86</u> <small>mS/Cm</small>	<u>30.2</u> <small>°C</small>	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>0854</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

1-Q 2023 08 05 - EB  
 Collected for the same analysis before moving on to the next well.

Time: 0851  
 pH: 8.03  
 EC: 0.02  
 C: 22.8



# WATER SAMPLING FIELD LOG

Well: 1-R

Project/Site: NERT Project - Henderson Nevada

Date(s): 9 | 12 | 23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Partly cloudy 87°

DTW ONLY

**Well Depth Information-** Date: 9 | 12 | 23 Time: 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 37.41  
 Manually Taken at Well  Taken at Control Panel

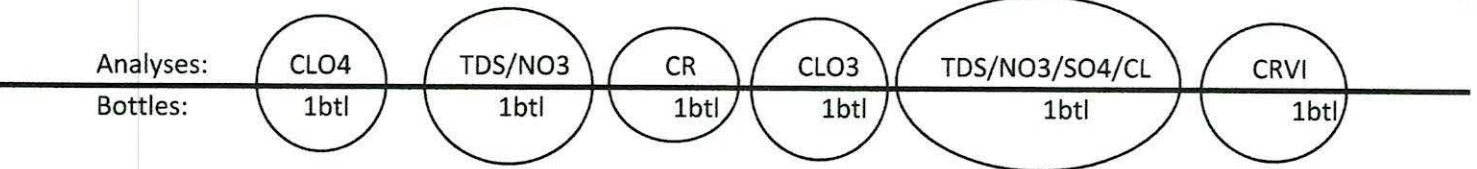
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 12 | 23 Start Time: 0942

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0943</u>	<u>7.33</u> <small>pH</small>	<u>6.25</u> <small>mS/Cm</small>	<u>28.3</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0946</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

Well: 1-5

Date(s): 9 | 14 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 84° sunny

DTW ONLY

**Well Depth Information-** Date: 9 | 14 | 23 Time: 0655

Total Well Depth(ft): NM  
(*'NM'*) - No measurement taken, manually measured annually)

Depth to Water(ft): 41.66\*  
 Manually Taken at Well  Taken at Control Panel

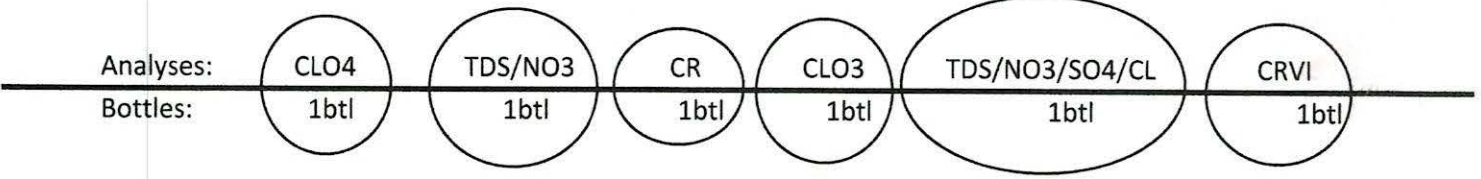
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 14 | 23 Start Time: 1014

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1015</u>	<u>7.23</u> pH	<u>6.55</u> mS/Cm	<u>28.4</u> °C	<u># Manually verified</u>
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>1018</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>6.54</u> mS/Cm	<u>7.03</u> pH
<u>28.1</u> °C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-T</u>
Project/Site: <u>NERT Project - Henderson Nevada</u>	Date(s): <u>9   5   23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>74° sunny</u>	

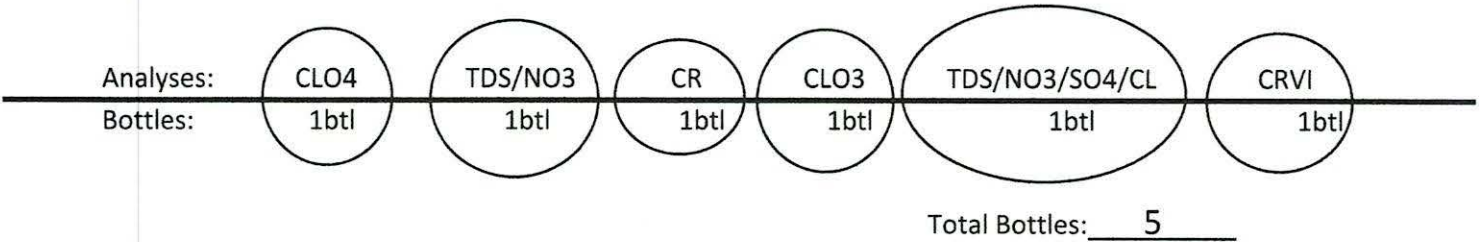
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <u>9   5   23</u>	Time: <u>0800</u>
Total Well Depth(ft): <u>NM</u> <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>44.34</u>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>9   5   23</u>	Start Time: <u>0903</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0904</u>	<u>7.01</u> <small>pH</small>	<u>10.41</u> <small>mS/Cm</small>	<u>30.2</u> <small>°C</small>		
Sample Appearance: <u>bright yellow</u>					
Finish Time: <u>0908</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-U</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9/5/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>78° Sunny</u>	

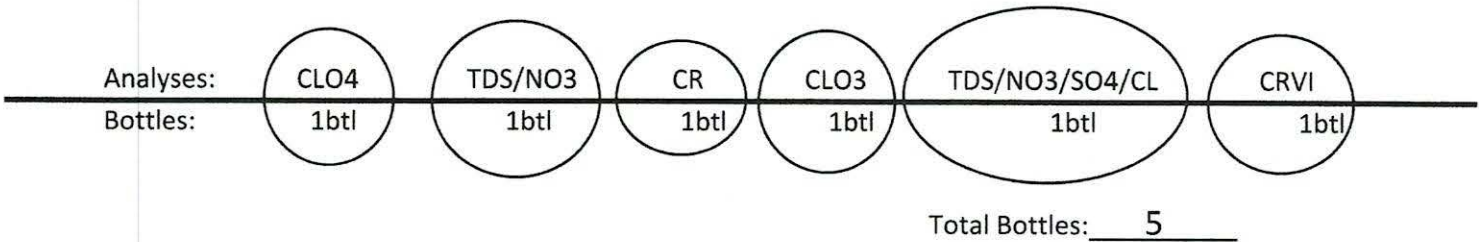
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9/5/23</u>	Time: <u>0800</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>44.38</u>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>9/5/23</u>	Start Time: <u>0909</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0910</u>	<u>7.25</u> <small>pH</small>	<u>10.15</u> <small>mS/Cm</small>	<u>28.9</u> <small>°C</small>			
Sample Appearance: <u>bright yellow</u>						
Finish Time: <u>0913</u>						



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-V</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>partly cloudy 84°</b>	

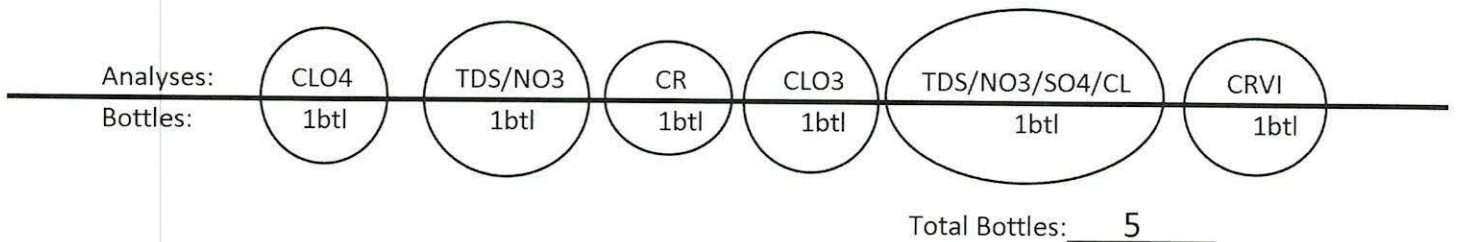
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   12   23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>38.65 *</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   12   23</b>	Start Time: <b>0817</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0818</b>	<b>7.22</b> <small>pH</small>	<b>6.67</b> <small>mS/Cm</small>	<b>27.7</b> <small>°C</small>	<b>*manually verified</b>
Sample Appearance: <b>pale yellow w/ fine debris</b>				
Finish Time: <b>0821</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-W</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9</u>   <u>5</u>   <u>23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>80° sunny</u>	

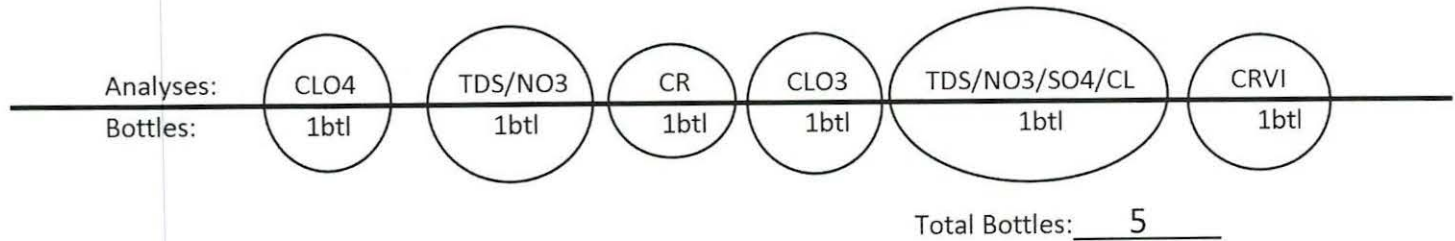
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9</u>   <u>5</u>   <u>23</u>	Time: <u>0838</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>41.32</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>9</u>   <u>5</u>   <u>23</u>	Start Time: <u>0931</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0932</u>	<u>7.51</u> <small>pH</small>	<u>8.23</u> <small>mS/Cm</small>	<u>28.9</u> <small>°C</small>			
Sample Appearance: <u>yellow</u>						
Finish Time: <u>0936</u>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-X

Project/Site: NERT Project - Henderson Nevada

Date(s): 9/11/23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 78° sunny

DTW ONLY

**Well Depth Information-** Date: 9/11/23 Time: 0700

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 50.17  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/11/23 Start Time: 0941

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0942</u>	<u>7.15</u> <small>pH</small>	<u>8.83</u> <small>mS/Cm</small>	<u>26.8</u> <small>°C</small>	
Sample Appearance: <u>bright yellow</u>				
Finish Time: <u>0946</u>				

Analyses:

CLO4

TDS/NO3

CR

CLO3

TDS/NO3/SO4/CL

CRVI

Bottles:

1btl

1btl

1btl

1btl

1btl

1btl

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-4

Project/Site: NERT Project - Henderson Nevada

Date(s): 9/12/23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 86° partly cloudy

DTW ONLY

**Well Depth Information-** Date: 9/12/23 Time: 0947

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 50.35  
 Manually Taken at Well  Taken at Control Panel

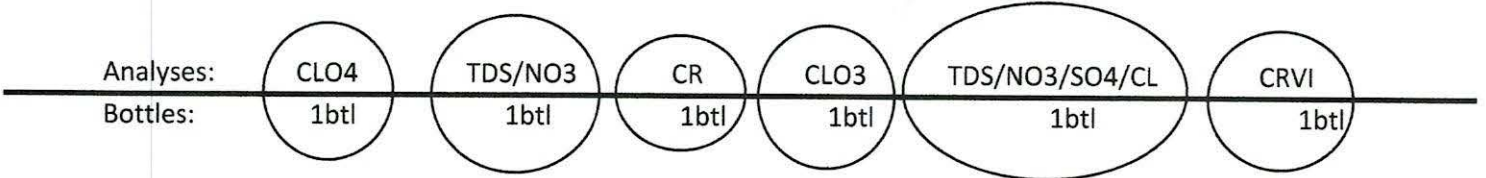
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/12/23 Start Time: 0947

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0949</u>	<u>7.14</u> <small>pH</small>	<u>6.24</u> <small>mS/Cm</small>	<u>28.9</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0952</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <u>1-Z</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9</u>   <u>12</u>   <u>23</u>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>84° partly cloudy</u>	

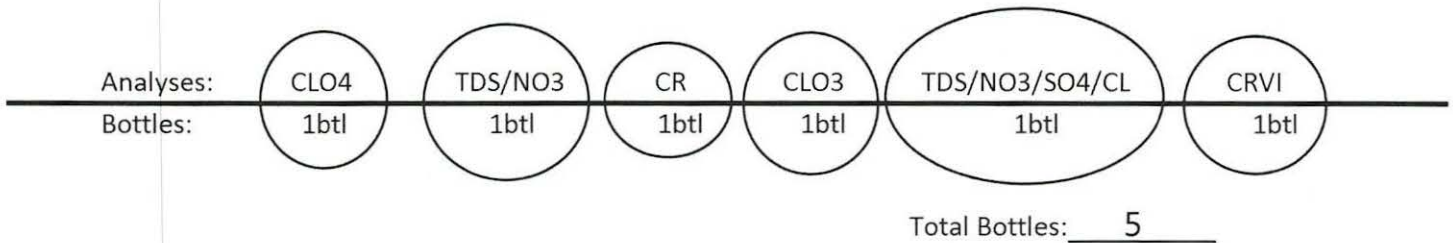
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9</u>   <u>12</u>   <u>23</u>	Time: <u>0831</u>
Total Well Depth(ft): NM <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>33.55*</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <u>9</u>   <u>12</u>   <u>23</u>	Start Time: <u>0831</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0833</u>	<u>7.62</u> <small>pH</small>	<u>4.85</u> <small>mS/Cm</small>	<u>26.1</u> <small>°C</small>	*measured 2x; cant get past motor
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0837</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: ART-1

Date(s): 9/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method: N/A  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 79° Sunny

DTW ONLY

**Well Depth Information-** Date: 9/14/23 Time: 0850

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 28.61\*  
 Manually Taken at Well  Taken at Control Panel

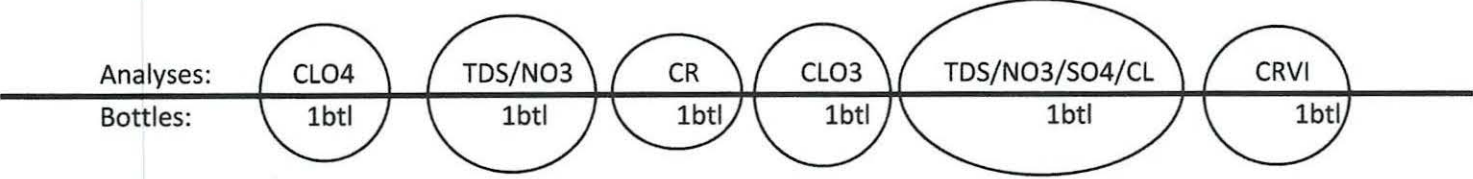
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~Field Measurements-~~ Date: \_\_\_\_\_ Start Time: \_\_\_\_\_

<del>Sample Time</del>	<del>pH</del>	<del>EC/MC</del>	<del>Temp</del>	Well Observations
<del> </del>	<del> </del>	<del> </del>	<del> </del>	<u>*measured 2x</u>
<del> </del>	<del>pH</del>	<del>mS/Cm</del>	<del>°C</del>	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-1A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° sunny</b>	

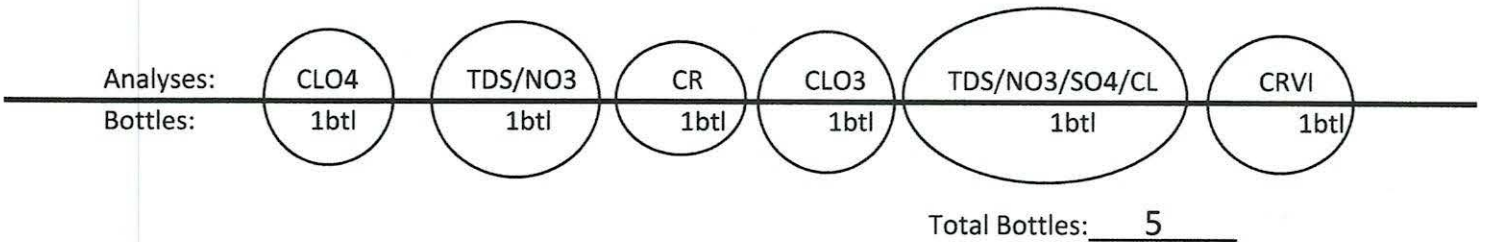
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0851</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>29.07*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9/14/23</b>	Start Time: <b>0935</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0936</b>	<b>7.44</b> <small>pH</small>	<b>6.24</b> <small>mS/Cm</small>	<b>25.4</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0939</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-2*</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° sunny</b>	

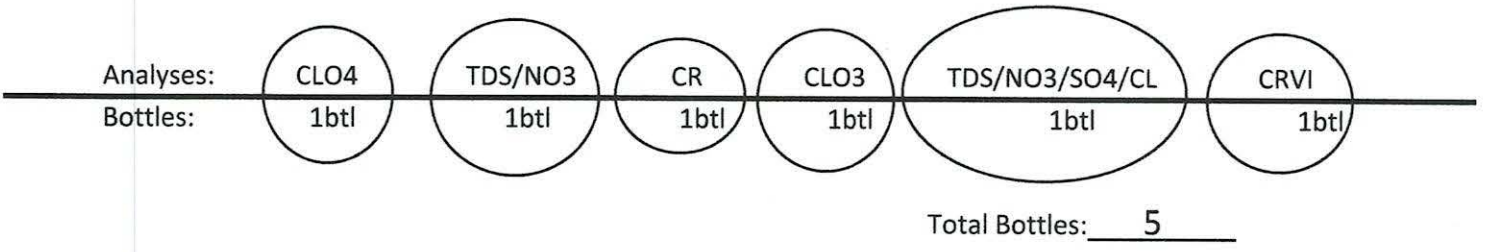
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>29.59**</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9/14/23</b>	Start Time: <b>0939</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0940</b>	<b>7.18</b> <small>pH</small>	<b>12.37</b> <small>mS/Cm</small>	<b>26.5</b> <small>°C</small>	<b>* ART-2 and ART-2A running concurrently. Bottles labeled ART-2/2A 2023 09 14.</b> <b>** manually verified</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0946</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

ART-2/2A 2023 09 14 - FD

Collected at the same time for the same analysis before moving on to the next well.

pH: 7.18  
ec: 12.39  
C: 26.4



# WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <b>ART-2A*</b>
Sampling Team: Emily McGuire	Date(s): <b>9/14/23</b>
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° sunny</b>	

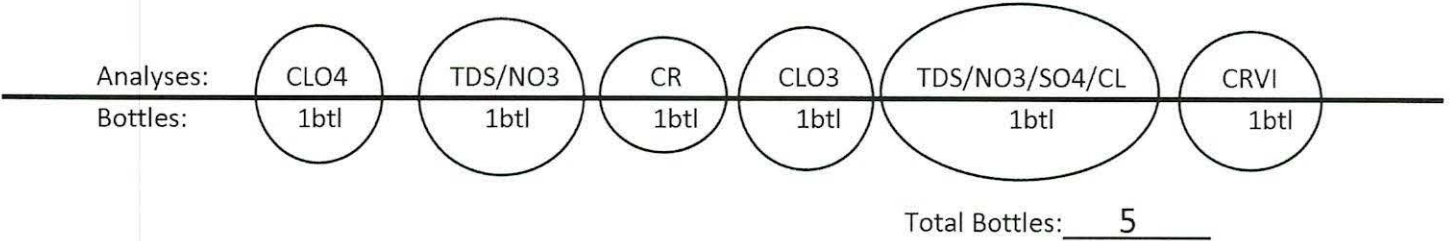
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0854</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>32.60</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>See ART-2</b>	pH	mS/Cm	°C	<b>*ART-2 and ART-2A running concurrently, bottles labeled ART-2/2A 2023 09 14.</b>
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° Sunny</b>	

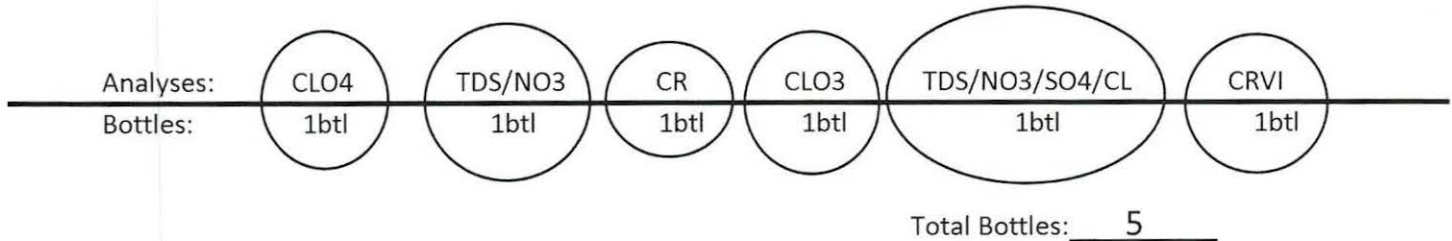
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>33.38*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
				<i>*manually verified</i>
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-3A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° Sunny</b>	

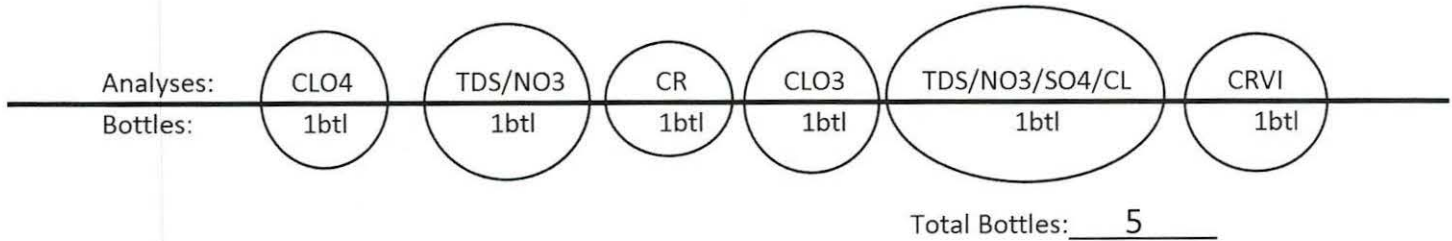
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0859</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>47.09*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9   14   23</b>	Start Time: <b>0927</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0928</b>	<b>7.29</b> <small>pH</small>	<b>10.68</b> <small>mS/Cm</small>	<b>25.8</b> <small>°C</small>	* measured 2x		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0934</b>						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

**ART-3A 2023 09 14 - EB**  
 Collected for the same analysis before moving on to the next well.  
  
 PH: 7.63  
 EC: 0.03  
 C: 26.6  
  
 Time: 0931



# WATER SAMPLING FIELD LOG

	Well: <b>ART-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° sunny</b>	

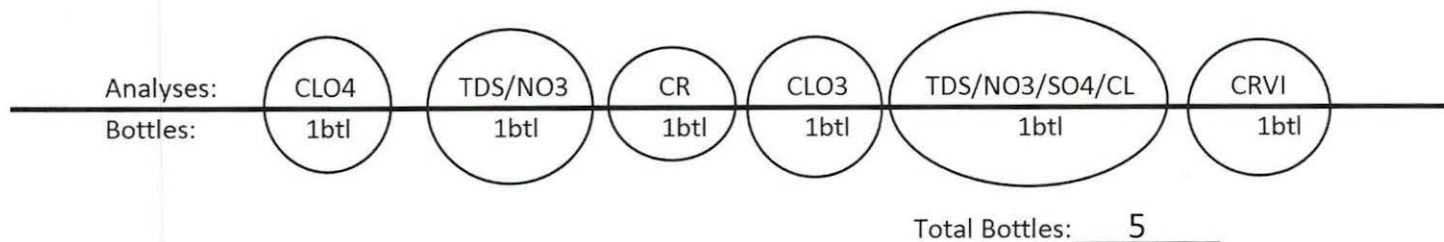
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>36.78</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9/14/23</b>	Start Time: <b>0923</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0924</b>	<b>7.52</b> <small>pH</small>	<b>6.72</b> <small>mS/Cm</small>	<b>25.8</b> <small>°C</small>			
Sample Appearance: <b>clear</b>						
Finish Time: <b>0927</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-4A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° Sunny</b>	

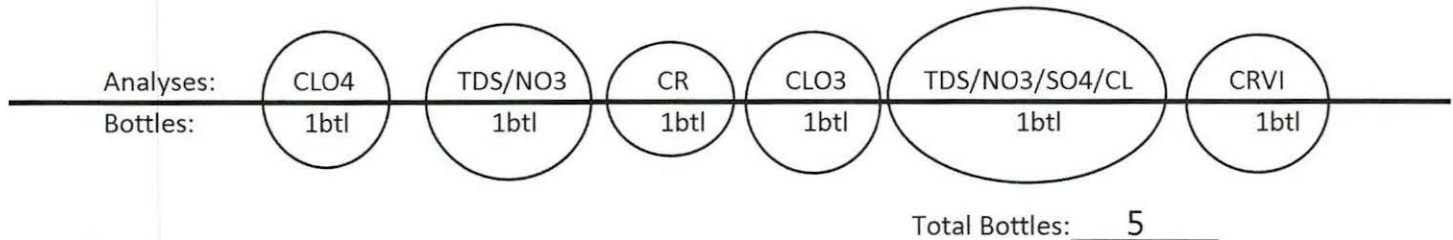
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0902</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.91*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9/14/23</b>	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
				<i>*measured 2x</i>
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-7A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° sunny</b>	

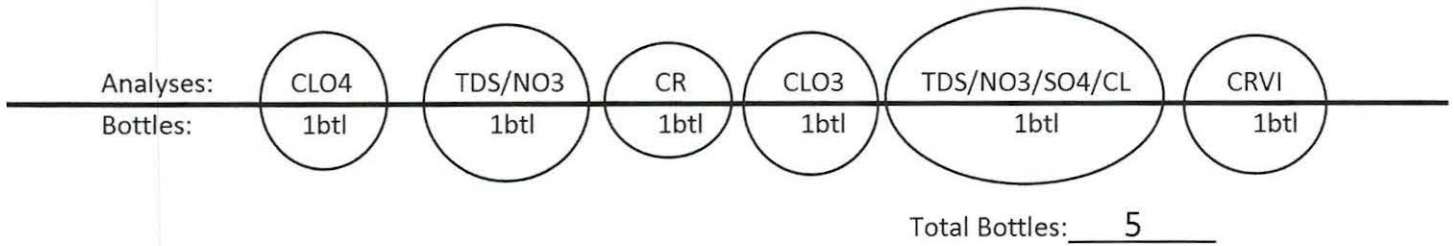
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>34.74</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9   14   23</b>	Start Time: <b>0918</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0919</b>	<b>7.34</b> <small>pH</small>	<b>9.06</b> <small>mS/Cm</small>	<b>24.8</b> <small>°C</small>			
Sample Appearance: <b>clear</b>						
Finish Time: <b>0922</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-7B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° Sunny</b>	

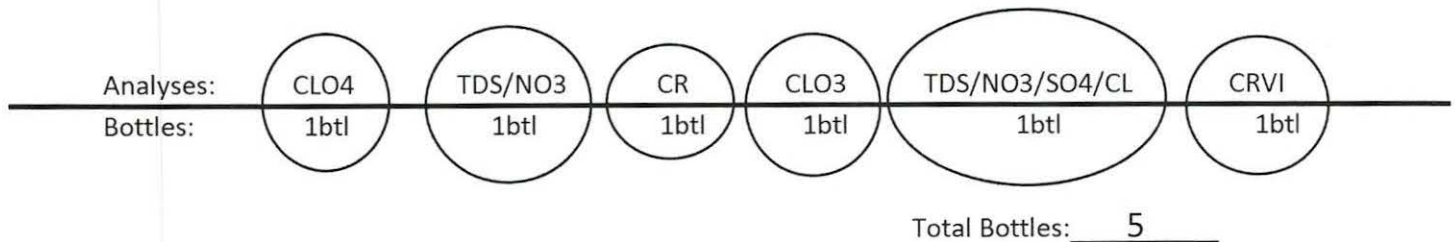
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0844</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>35.38*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   23</b>	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
				*measured 2x
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-8</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° Sunny</b>	

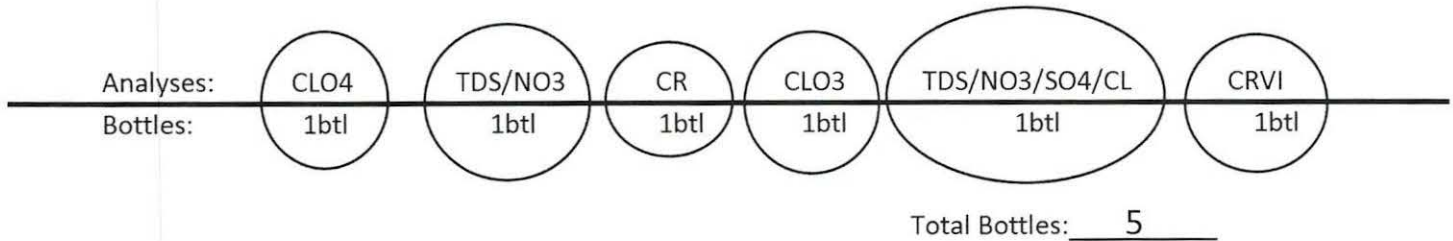
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>34.04</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	<i>*manually verified</i>
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-8A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° Sunny</b>	

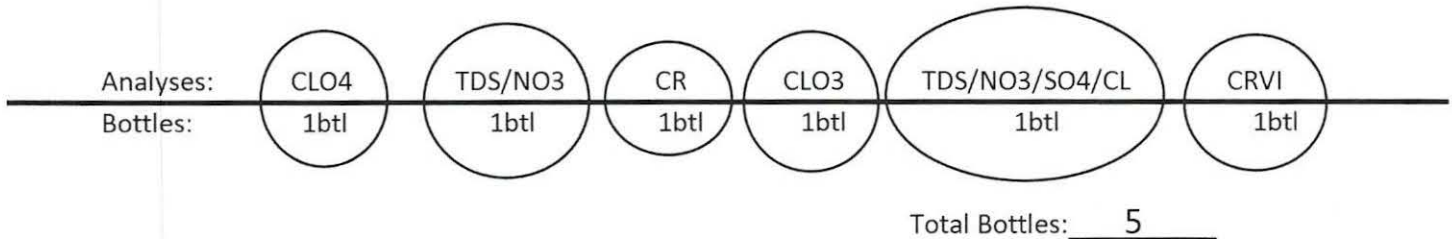
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0856</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>40.89</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   14   23</b>	Start Time: <b>0946</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0947</b>	<b>7.21</b> <small>pH</small>	<b>12.59</b> <small>mS/Cm</small>	<b>26.4</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>0951</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-9</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° Sunny</b>	

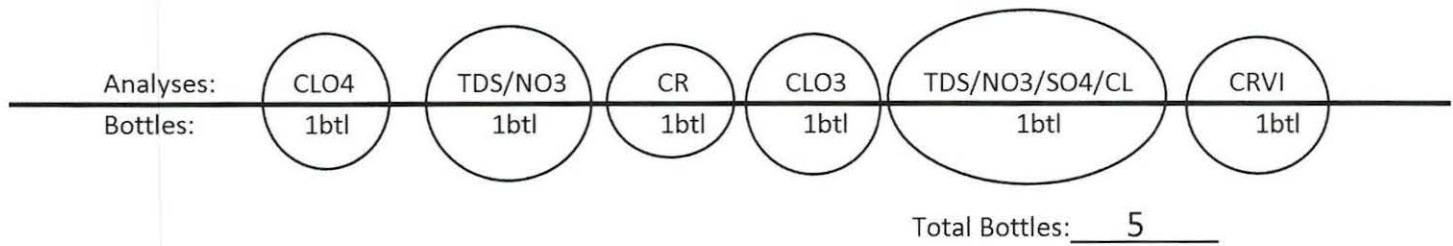
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.35</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9/14/23</b>	Start Time: <b>0914</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0915</b>	<b>7.44</b> <small>pH</small>	<b>7.25</b> <small>mS/Cm</small>	<b>25.3</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0918</b>					



DUP EC Reading	QC
<b>7.23</b> <small>mS/Cm</small>	<b>7.02</b> <small>pH</small>
<b>25.3</b> <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>PC-150</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° Sunny</b>	

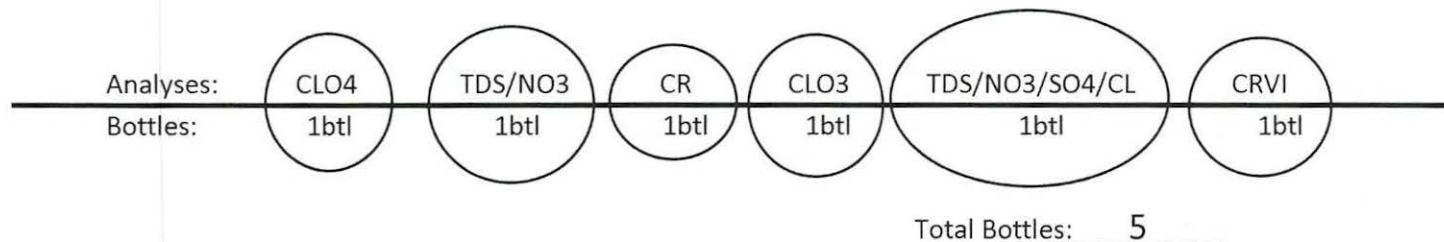
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0905</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <del>40.67</del> <b>39.98</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9   14   23</b>	Start Time: <b>0909</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0910</b>	<b>7.61</b> <small>pH</small>	<b>5.85</b> <small>mS/Cm</small>	<b>25.9</b> <small>°C</small>			
Sample Appearance:		<b>clear</b>				
Finish Time:		<b>0914</b>				



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>PC-99R21R3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° fair</b>	

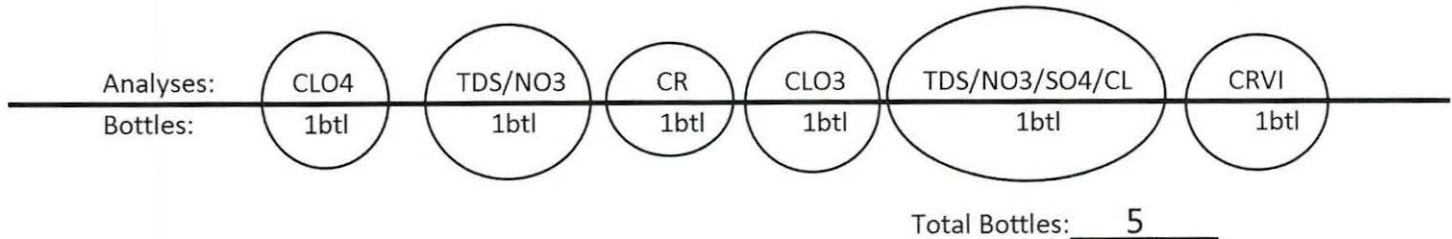
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>9.36*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9   14   23</b>	Start Time: <b>0743</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0744</b>	<b>7.05</b> <small>pH</small>	<b>4.47</b> <small>mS/Cm</small>	<b>23.9</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0748</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-115R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° fair</b>	

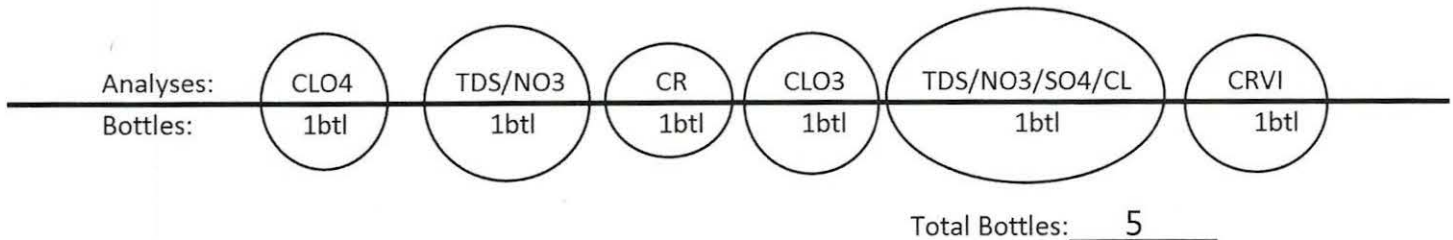
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>7.60*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft): .		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9/14/23</b>	Start Time: <b>0807</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0808</b>	<b>7.27</b> <small>pH</small>	<b>4.19</b> <small>mS/Cm</small>	<b>22.5</b> <small>°C</small>	* manually verified		
Sample Appearance: <b>Clear</b>						
Finish Time: <b>0812</b>						



DUP EC Reading	QC
<b>4.18</b> <small>mS/Cm</small>	<b>7.02</b> <small>pH</small>
<b>22.5</b> <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>PC-116R</b>
Project/Site: <b>NERT Project - Henderson Nevada</b>	Date(s): <b>9/14/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° fair</b>	

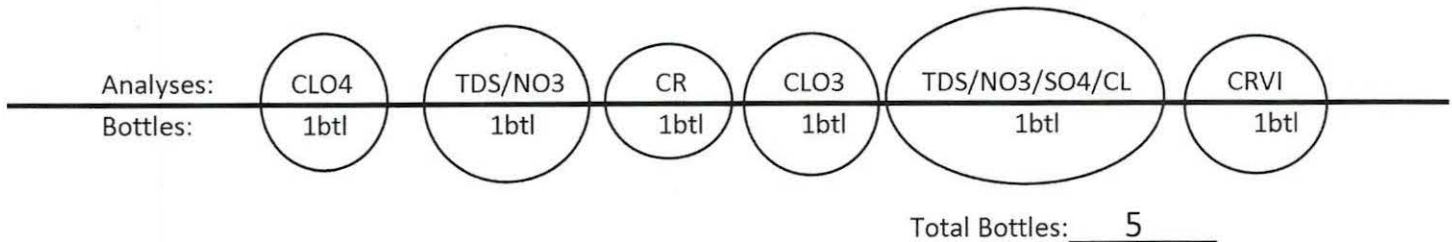
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>10.71*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9/14/23</b>	Start Time: <b>0803</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0804</b>	<b>7.27</b> <small>pH</small>	<b>4.96</b> <small>mS/Cm</small>	<b>23.0</b> <small>°C</small>	*manually verified
Sample Appearance: <b>clear</b>				
Finish Time: <b>0807</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>PC-117</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>77° fair</b>	

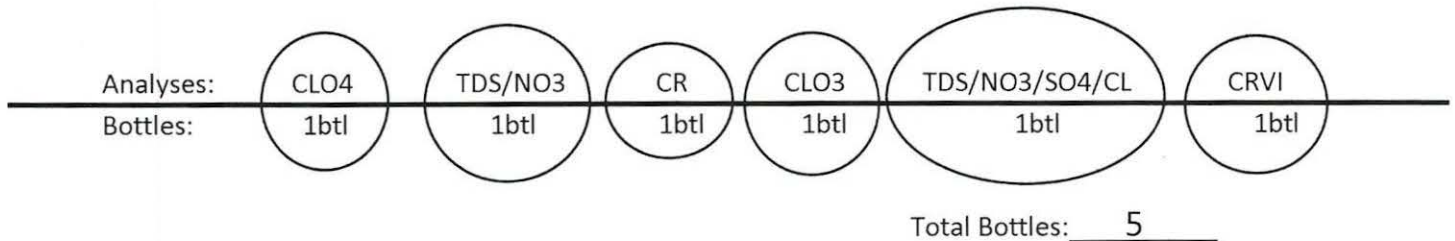
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>14.51*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   14   23</b>	Start Time: <b>0817</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0818</b>	<b>7.27</b> <small>pH</small>	<b>4.30</b> <small>mS/Cm</small>	<b>22.5</b> <small>°C</small>	*manually verified
Sample Appearance: <b>clear</b>				
Finish Time: <b>0824</b>				



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

PC-117 2023 09 14 - FD  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.27  
 EC: 4.30  
 C: 22.5



# WATER SAMPLING FIELD LOG

	Well: <b>PC-118</b>
Project/Site: <b>NERT Project - Henderson Nevada</b>	Date(s): <b>9   14   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° fair</b>	

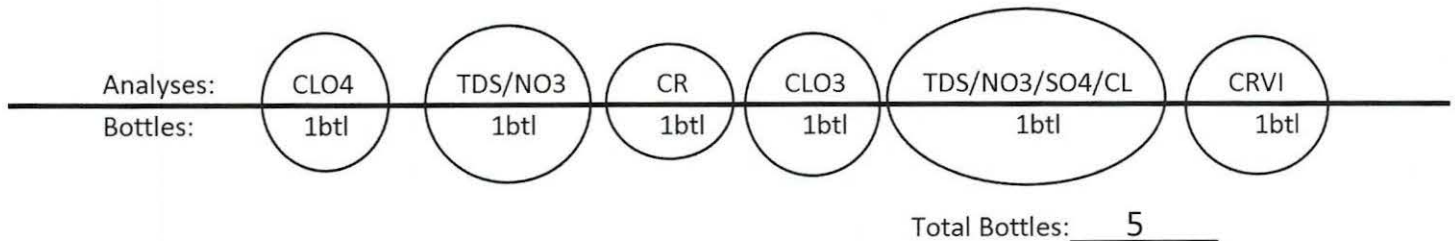
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0655</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>2.96*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9   14   23</b>	Start Time: <b>0825</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0826</b>	<b>7.41</b> <small>pH</small>	<b>3.56</b> <small>mS/Cm</small>	<b>22.1</b> <small>°C</small>	<b>*manually verified</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0832</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

**PC-118 2023 09 14 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 7.61  
 Time: 0829    EC: 0.05  
                   C: 26.8

# WATER SAMPLING FIELD LOG

	Well: <b>PC-119</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° fair</b>	

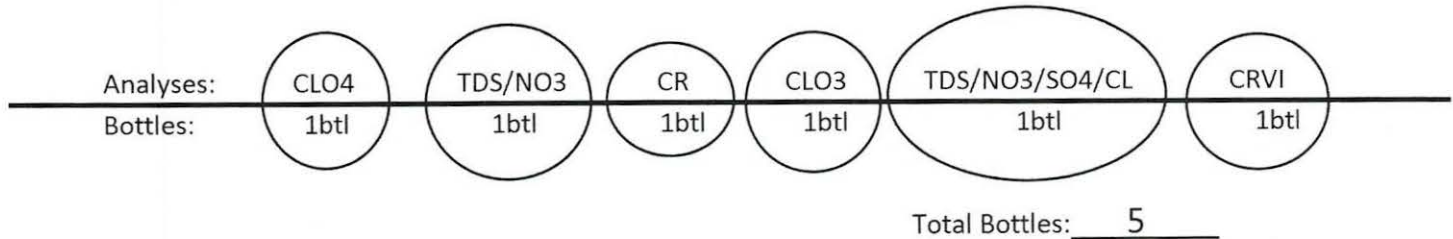
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0655</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>0.39*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   14   23</b>	Start Time: <b>0812</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0813</b>	<b>7.35</b> <small>pH</small>	<b>3.14</b> <small>mS/Cm</small>	<b>21.7</b> <small>°C</small>	*manually verified
Sample Appearance: <b>clear</b>				
Finish Time: <b>0816</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-120</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° clear</b>	

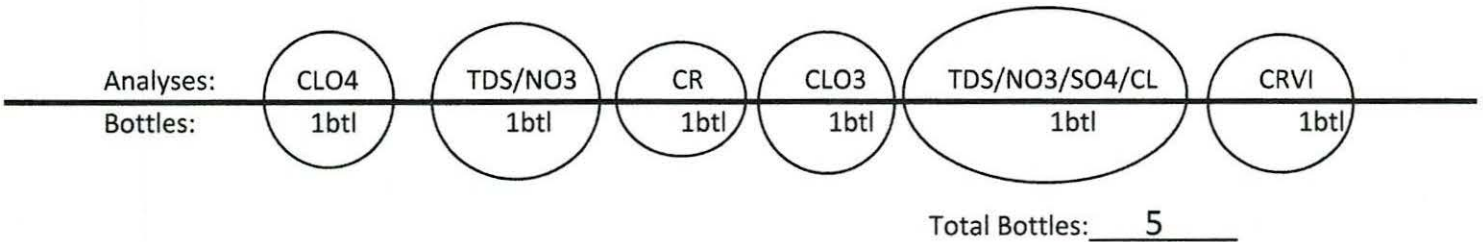
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <b>0655</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>0*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9   14   23</b>	Start Time: <b>0748</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0749</b>	<b>7.33</b> <small>pH</small>	<b>2.73</b> <small>mS/Cm</small>	<b>23.8</b> <small>°C</small>	*manually verified	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0753</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-121</b>
Project/Site: <b>NERT Project - Henderson Nevada</b>	Date(s): <b>9/14/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>77° fair</b>	

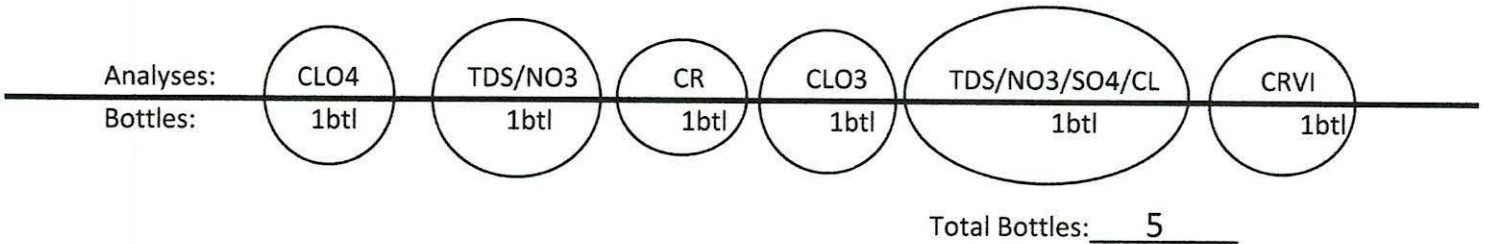
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>9/14/23</b>	Time: <b>0655</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>0*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9/14/23</b>	Start Time: <b>0755</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0756</b>	<b>7.39</b> <small>pH</small>	<b>2.62</b> <small>mS/Cm</small>	<b>22.2</b> <small>°C</small>	<i>* manually verified</i>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0759</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>PC-133</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   14   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>77° fair</b>	

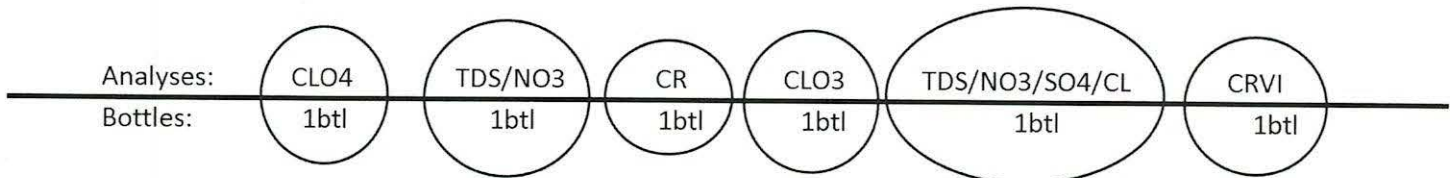
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   14   23</b>	Time: <del>0710</del>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>23.23*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>9   14   23</b>	Start Time: <b>0759</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0800</b>	<b>7.33</b> <small>pH</small>	<b>3.15</b> <small>mS/Cm</small>	<b>22.8</b> <small>°C</small>	*measured 2x		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0803</b>						



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>E1-1</u>
Project/Site: <u>NERT Project - Henderson Nevada</u>	Date(s): <u>9   11   23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny 76°</u>	

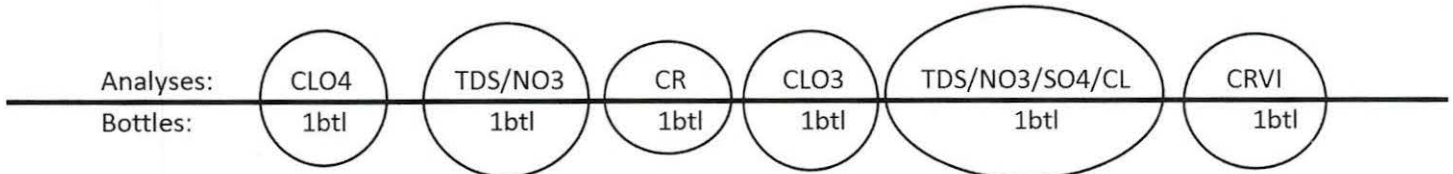
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9   11   23</u>	Time: <u>0749</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>45.17</u> <input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <u>9   11   23</u>	Start Time: <u>0754</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0755</u>	<u>7.14</u> <small>pH</small>	<u>5.38</u> <small>mS/Cm</small>	<u>27.1</u> <small>°C</small>	<u>0753 147.74 2.13 18 psi</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0800</u>				



Total Bottles: 5

E1-1 2023 09 11 - EB

Collected for the same analysis before moving on to the next well.

DUP EC Reading	QC
mS/Cm	pH
°C	

Time: 0758  
 PH: 8.98  
 EC: 0.06  
 C: 29.7



# WATER SAMPLING FIELD LOG

	Well: <u>E1-2</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9   11   23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny 76°</u>	

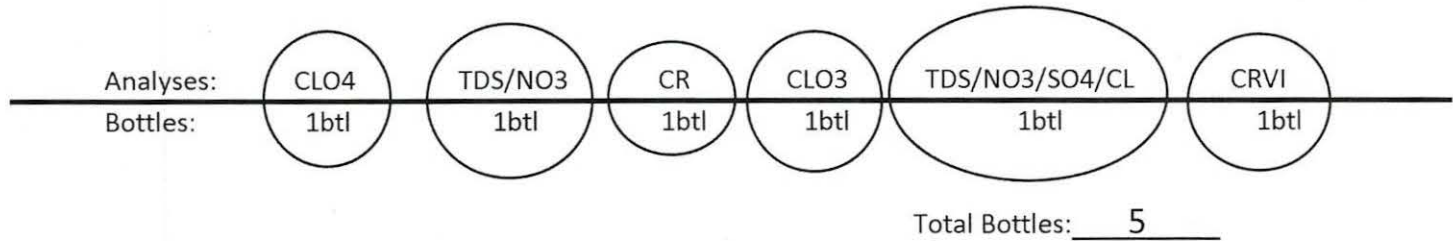
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9   11   23</u>	Time: <u>0751</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>44.18</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <u>9   11   23</u>	Start Time: <u>0801</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0802</u>	<u>7.30</u> <small>pH</small>	<u>6.71</u> <small>mS/Cm</small>	<u>27.5</u> <small>°C</small>	<u>0753 357928 0.98 gpm 22psi</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0806</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>E1-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9/11/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 77°</b>	

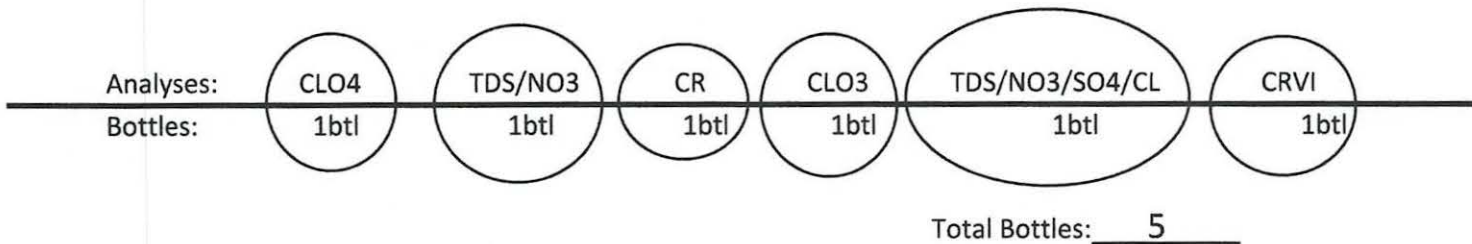
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9/11/23</b>	Time: <b>0752</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.04</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>9/11/23</b>	Start Time: <b>0808</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0809</b>	<b>7.27</b> <small>pH</small>	<b>6.04</b> <small>mS/Cm</small>	<b>28.2</b> <small>°C</small>	<b>0753 289591 0.72gpm 22psi</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0813</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <u>E2-1</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>9/11/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny 77°</u>	

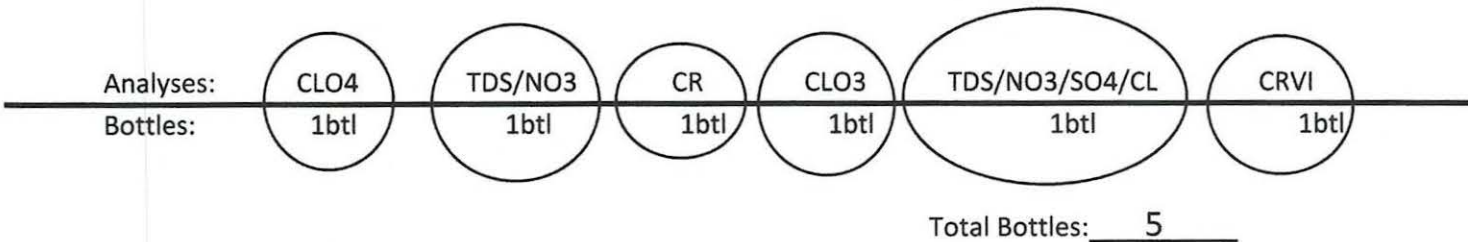
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>9/11/23</u>	Time: <u>0819</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>39.62</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>9/11/23</u>	Start Time: <u>0822</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0823</u>	<u>7.47</u> <small>pH</small>	<u>3.80</u> <small>mS/Cm</small>	<u>26.7</u> <small>°C</small>	<u>0819 68227.3 0.59gpm 22psi</u> <u>↑ 0.72 gpm</u>	
Sample Appearance: <u>clear</u>					
Finish Time: <u>0827</u>					



DUP EC Reading	QC
<u>3.80</u> <small>mS/Cm</small>	<u>7.04</u> <small>pH</small>
<u>27.2</u> <small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: 92-2

Project/Site: NERT Project - Henderson Nevada Date(s): 9/11/23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 77°

**DTW ONLY**

**Well Depth Information-** Date: 9/11/23 Time: 0822

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 41.83  
 Manually Taken at Well  Taken at Control Panel

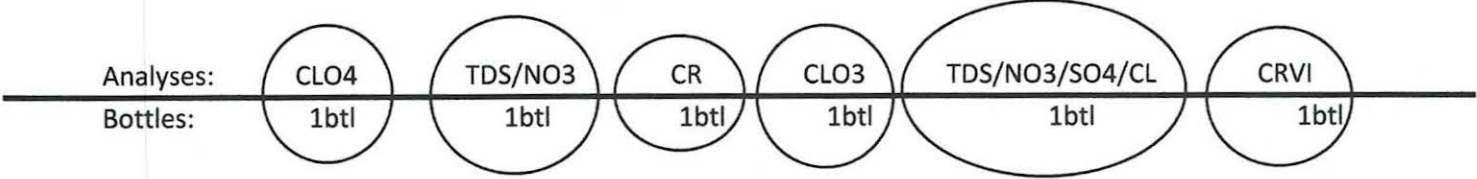
Height of Water Column(ft):

**Well Purge Required**

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9/11/23 Start Time: 0828

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0829</u>	<u>7.47</u> <small>pH</small>	<u>4.33</u> <small>mS/Cm</small>	<u>26.4</u> <small>°C</small>	<u>0822 208682 1.06gpm 18psi</u>
Sample Appearance: <u>Clear</u>				
Finish Time: <u>0834</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

Well: E2-3

Date(s): 9 | 11 | 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 78°

DTW ONLY

**Well Depth Information-** Date: 9 | 11 | 23 Time: 0835

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): 44.78  
 Manually Taken at Well  Taken at Control Panel

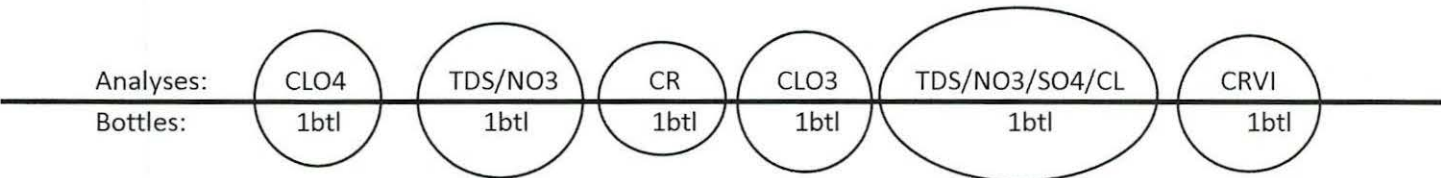
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 9 | 11 | 23 Start Time: 0843

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0844</u>	<u>7.28</u> <small>pH</small>	<u>5.61</u> <small>mS/Cm</small>	<u>26.4</u> <small>°C</small>	<u>420058 1.41 gpm 44psi</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0847</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
	<small>°C</small>



# WATER SAMPLING FIELD LOG

	Well: <b>EZ-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   11   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 78°</b>	

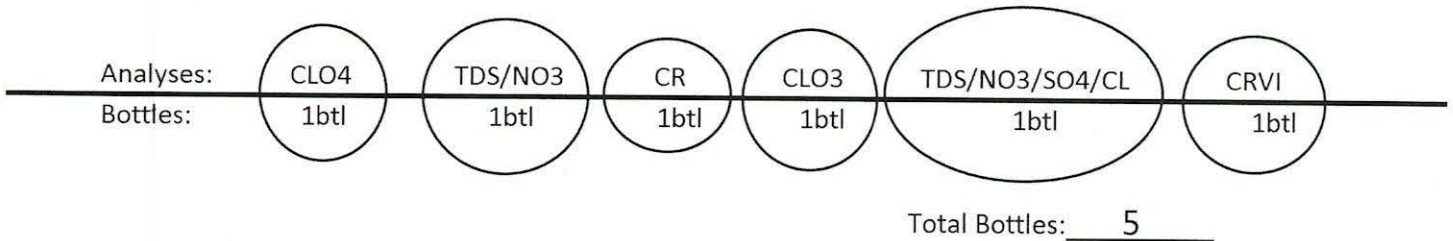
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   11   23</b>	Time: <b>0840</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.30</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   11   23</b>	Start Time: <b>0847</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0848</b>	<b>7.43</b> <small>pH</small>	<b>5.71</b> <small>mS/Cm</small>	<b>26.3</b> <small>°C</small>	<b>138513</b> <b>0.79 gpm @ 22 psi</b> <b>↑ 0.97</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0853</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>22-5</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>9   11   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 78°</b>	

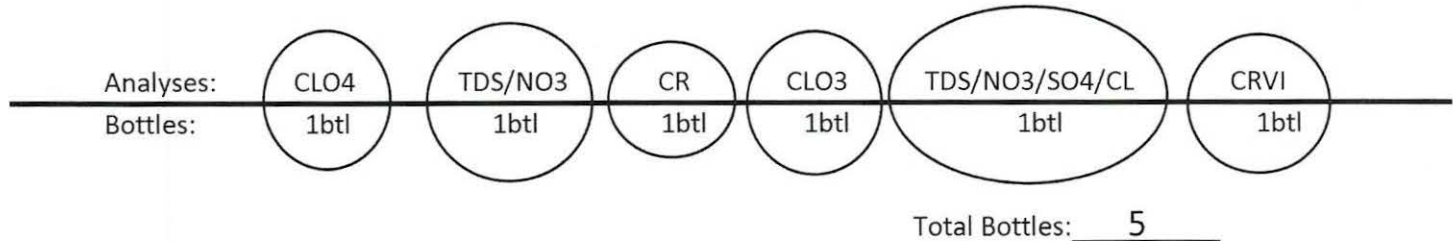
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>9   11   23</b>	Time: <b>0842</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>48.62</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>9   11   23</b>	Start Time: <b>0853</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0854</b>	<b>7.08</b> <small>pH</small>	<b>6.38</b> <small>mS/Cm</small>	<b>28.1</b> <small>°C</small>	<b>839863    0.42 gpm    4 psi</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0901</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	

**22-5 2023 09 11 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.07  
 EC: 6.38  
 C: 28.4



# ETI Daily Sampling Log Sheet

Date: 9/5/23 Well Field(s): IWF Start Time: 0715 Finish Time: 0942

Time In	Time Out	Name	Signature	Company/Purpose
0715	0942	Emily McQuire	E. McQ.	ETI Sampling

Time	Observation
0715	Presampling prep.
0731	Calibrated pH/EC meter.
0800	Collected PLC DTW's.
0846	Started sampling.
0942	Completed sampling.

Completed By: E. McQ.



### DAILY SAMPLING RIG INSPECTION SHEET

Date: 9/5/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0715
Wells to be sampled today: IWF		
Dangers and hazards with wells to be sampled: Hexachrome		
Name: Emily McGuire	Signature: <i>[Signature]</i>	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0720
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0725
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		









## DAILY SAMPLING RIG INSPECTION SHEET

Date: 9/11/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0640
Wells to be sampled today: APS/WF		
Dangers and hazards with wells to be sampled: Hexachrome		
Name: Emily McGuire	Signature: E. McGuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0643
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0646
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





DAILY MAINTENANCE AND CALIBRATION LOG

Date: 9/11/23

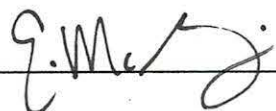
HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0632 EM
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0636 EM
Calibration Value	7.01	6.03	
Buffer Temp	25.1	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
E2-1	3.80	26.7	3.80	27.2
1-N	8.24	28.8	8.27	29.1

QC's
7.04
7.03
Closing QC
7.04

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: 





### DAILY SAMPLING RIG INSPECTION SHEET

Date: 9/12/23 Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: <u>0645</u>
Wells to be sampled today: <u>IWF</u>		
Dangers and hazards with wells to be sampled: <u>Hexachrome / Borman</u>		
Name: <u>Emily McGuire</u>	Signature: <u>E. McGuire</u>	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: <u>0650</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <u>0655</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		









## DAILY SAMPLING RIG INSPECTION SHEET

Date: 9/14/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0655
Wells to be sampled today: AWF/SWF/IWF		
Dangers and hazards with wells to be sampled: Hexachrome/road		
Name: Emily McGuire		Signature: E. McGuire
Name:		Signature:

<b>Sampling Equipment Inspection-</b>		Time: 0700
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0705
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 9/14/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0707 EM
Temp Comp Value	25	
Calibration Value	1289	
Standard Temp	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0710 EM
Calibration Value	7.01	6.02	
Buffer Temp	25.1	25.3	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
PC-715R	4.19	22.5	4.18	22.5
APT-9	7.25	25.3	7.23	25.3
1-5	6.55	28.4	6.54	28.1

QC's
7.02
7.02
7.03
Closing QC
7.02

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. M. [Signature]

# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie and Chris Stubbs, Ramboll

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**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, John Crowther, Jon Hunt, Emeryville Lab Data, Ramboll  
Dana Grady, Tetra Tech

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**From:** Jesse Bunkers and Dylan Begley, Tetra Tech

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**Date:** September 13, 2023

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**Subject:** September 2023 Monthly Las Vegas Wash Surface Water Sampling  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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## MONTHLY SURFACE WATER SAMPLING ACTIVITIES

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the September 2023 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The 10 surface water sample locations described in the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3*, dated December 2022, are shown on **Figure 1**. Tetra Tech collected 30 independent samples from 10 sample locations within the Las Vegas Wash (the Wash) and a channel flowing into the Wash (C-1 Channel) on September 5 and 6, 2023. Two representatives from Endeavour LLC accompanied Tetra Tech on September 6, 2023 during the sample collections at LVW6.05, LVW6.6, LVW7.2, and LVW8.85. Sample collection within the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximated mid-water depth using the discrete hand-sample technique described in the SAP. During sampling of the C-1 Channel, the channel width, depth of water, and flow rate were measured and documented for each sample location in the surface water sampling logs.

Samples were stored in coolers at 4 degrees Celsius and transferred under chain-of-custody documentation to Eurofins Environment Testing Southwest (Eurofins) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids (TDS) using EPA Methods 314.0, 300.1B, and SM2540C, respectively. Analysis of TDS is not included in the SAP; however, February 9, 2023, discussions with Ramboll identified that monthly surface water samples should be analyzed for TDS and the SAP tables will be revised to reflect this addition. The Eurofins Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the September 2023 sampling event are as follows:

- Field personnel were not able to sample the designated location for LVW5.3-2 due to the presence of a sandbar. An alternative sample location was selected for LVW5.3-2. The sample was collected as close as possible to the original sample location, approximately 17 feet west of the original sample location and recorded with a handheld GPS at coordinates: 36.09013° N, -114.97324° W.
- Field personnel were not able to sample the designated location for LVW5.3-6 due to encroachment of bank vegetation that hindered access to the designated location. An alternative sample location was selected for LVW5.3-6. The sample was collected as close as possible to the original sample location, approximately 13 feet west of the original sample location and recorded with a handheld GPS at coordinates: 36.09063° N, -114.97398° W.
- Field personnel were not able to sample the designated location for LVW4.2-4 due to encroachment of bank vegetation that precluded access to the designated location. The sample was collected as close as possible to the original sample location, approximately 11 feet south of the original sample location and recorded with a handheld GPS at coordinates: 36.09504° N, -114.95476° W.
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.

Surface water sampling logs are provided as Attachment A. Field investigation daily logs and the calibration certification form are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.



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## CERTIFICATION

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I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the September 2023 Monthly Las Vegas Wash Surface Water Sampling Summary



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

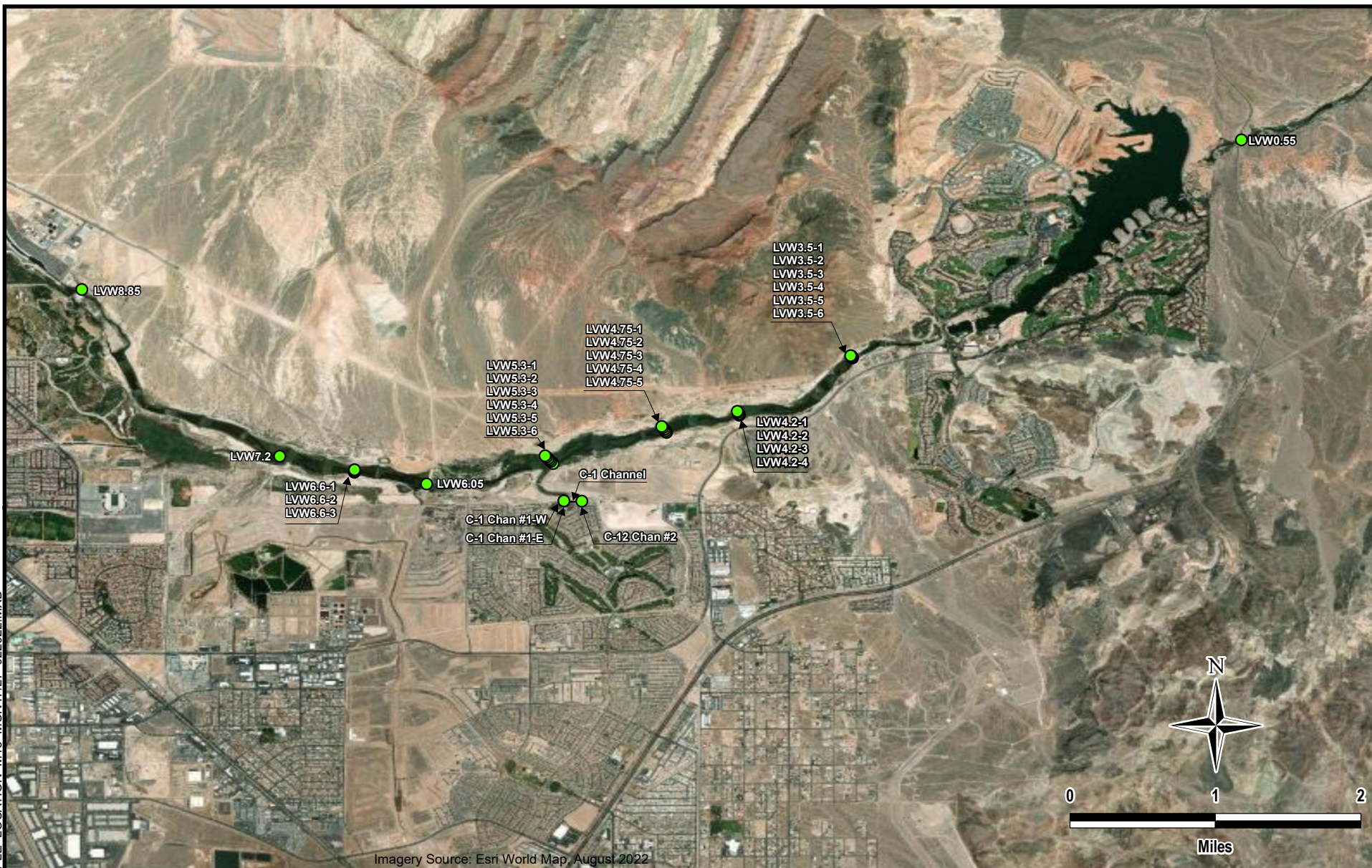
September 22, 2023

Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

**Figure**

D:\INERTM15\MXD\SAMPLE LOCATION M15 MONTHLY 022022.MXD



Imagery Source: Esri World Map, August 2022

**Legend**

- Monthly Sample Locations

**Tt TETRA TECH**

www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH MONTHLY SAMPLING  
HENDERSON, NEVADA

**LAS VEGAS WASH SAMPLE POINT LOCATIONS**

Project No.: 117-7502023

Date: FEBRUARY 13, 2023

Designed By: AAM

Figure No.  
**1**



# **Attachment A**

## **Surface Water Sampling Logs**



## SURFACE WATER SAMPLING LOG

NERT, Henderson, NV

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 9/5/2023
Field Samplers: J. Bunkers, J. Heintz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse	

Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
15:00	C1-E	0.0	0.0	27.1	8.27	4.727	7.72	144.0	2.1	Clear	None
15:00	C1-W	0.0	0.0	26.7	8.06	4.809	8.20	135.4	0.5	Clear	None
10:15	LVW 0.55	3.0	1.5	26.8	6.47	1.756	7.68	197.4	62.9	Clear	None
11:00	LVW 3.5-1	2.8	1.4	27.5	7.94	1.919	6.99	135.5	59.0	Clear	None
11:00	LVW 3.5-2	4.0	2.0	27.0	7.97	1.896	7.10	134.3	53.8	Clear	None
11:00	LVW 3.5-3	2.2	1.1	26.6	7.98	1.865	7.19	134.5	55.9	Clear	None
11:00	LVW 3.5-4	4.4	2.2	26.6	7.98	1.849	7.20	134.6	54.3	Clear	None
11:00	LVW 3.5-5	2.2	1.1	26.7	7.95	1.844	7.21	135.0	51.5	Clear	None
11:00	LVW 3.5-6	3.6	1.8	27.0	7.93	1.837	7.13	135.3	49.5	Clear	None
12:00	LVW 4.2-1	4.4	2.2	28.7	8.45	0.034	7.18	135.7	90.6	Clear	None
12:00	LVW 4.2-2	7.0	3.5	27.7	8.48	1.884	7.18	126.3	61.4	Clear	None
12:00	LVW 4.2-3	5.4	2.7	27.7	8.27	1.814	7.20	125.7	61.2	Clear	None
12:00	LVW 4.2-4	4.0	2.0	27.6	8.28	1.784	7.10	127.6	64.9	Clear	None
12:45	LVW 4.75-1	2.0	1.0	28.5	8.32	1.997	6.91	111.1	54.0	Clear	None
12:45	LVW 4.75-2	3.6	1.8	28.6	8.22	2.006	7.02	112.5	51.9	Clear	None
12:45	LVW 4.75-3	3.0	1.5	29.0	8.14	1.952	7.07	113.7	56.1	Clear	None
12:45	LVW 4.75-4	3.4	1.7	29.0	8.14	1.947	7.07	114.3	54.6	Clear	None
12:45	LVW 4.75-5	2.8	1.4	29.4	8.08	1.975	6.93	115.5	57.2	Clear	None
14:00	LVW 5.3-1	2.2	1.1	30.9	8.52	1.739	6.90	112.1	68.5	Clear	None
14:00	LVW 5.3-2	3.4	1.7	29.6	8.50	1.910	7.08	124.0	57.2	Clear	None
14:00	LVW 5.3-3	2.8	1.4	29.5	8.44	1.895	7.05	114.5	55.3	Clear	None
14:00	LVW 5.3-4	2.4	1.2	29.3	8.36	1.882	7.06	112.8	55.8	Clear	None
14:00	LVW 5.3-5	3.0	1.5	29.5	8.31	0.978	7.05	130.5	54.6	Clear	None
14:00	LVW 5.3-6	2.0	1.0	29.7	8.27	1.904	7.00	121.7	60.0	Clear	None

QA/QC Samples/ID: LVW0.55-1.5-20230905-FD	QA/QC Samples/ID: LVW0.55-20230905-FB	QA/QC Samples/ID:
QA/QC Sample Time: 10:15	QA/QC Sample Time: 10:15	QA/QC Sample Time:

<b>C1-E</b> Flow (L/s): 0.07 Width (ft): 0.43    Depth (ft): 0.01	<b>C1-W</b> Flow (L/s): 2.89 Width (ft): 0.80    Depth (ft): 0.09	<b>C-12</b> Flow (L/s): _____ Width (ft): _____ Depth (ft): _____
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**Observations/Comments:**



### SURFACE WATER SAMPLING LOG

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 9/6/2023
---------------------------------------	----------------------------	--------------	----------------

Field Samplers: J. Bunkers, J. Heintz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
---------------------------------------	--------------------------------	-----------------------------------

Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
09:00	LVW 6.05	1.0	0.5	25.6	5.74	1.922	7.23	171.8	14.4	Clear	None
09:45	LVW 6.6-1	3.2	1.6	27.3	7.62	2.045	7.01	118.1	26.2	Clear	None
09:45	LVW 6.6-2	6.8	3.4	27.0	7.63	2.091	7.23	118.6	18.2	Clear	None
09:45	LVW 6.6-3	1.0	0.5	26.8	7.75	2.066	7.23	116.3	17.9	Clear	None
10:15	LVW 7.2	2.6	1.3	28.4	7.92	1.893	7.12	110.2	10.1	Clear	None
11:15	LVW 8.85	1.6	0.8	29.2	7.71	1.986	6.54	110.1	8.0	Clear	None

QA/QC Samples/ID: LVW6.05-0.5-20230906-FD	QA/QC Samples/ID: LVW6.05-20230906-FB	QA/QC Samples/ID: LVW7.2-1.3-20230906-FD
---	---------------------------------------	--

QA/QC Sample Time: 9:00	QA/QC Sample Time: 9:00	QA/QC Sample Time: 10:15
-------------------------	-------------------------	--------------------------

<b>C1-E</b>	Flow (L/s): _____	<b>C1-W</b>	Flow (L/s): _____	<b>C-12</b>	Flow (L/s): _____
	Width (ft): _____ Depth (ft): _____		Width (ft): _____ Depth (ft): _____		Width (ft): _____ Depth (ft): _____

**Observations/Comments:**



**Attachment B**  
**Field Investigation Daily Logs**



Task Name: LVW Surface Water Sampling

Task Manager: Jesse Bunkers

Date: 9/5/23

Field Personnel: JB, JH

Task No: M15

Location: Las Vegas Wash

Tablet #: 1

Reported by: J. Bunkers

Weather Conditions: 98°F Sunny, Calm

Total Vehicle Mileage: 30

Task Visitors / Subcontractors: None

Matters of Safety:

Rapid/High Water, Heat Stress

Problems / Concerns and Corrective Actions Taken:

None

Time	Activities																					
0700	Meet at Te office, safety review, gather supplies																					
0915	YSI arrives to office by Fedex																					
1000	Arrive at LVW0.55, set up to sample. USGS and ETI are also sampling LVW0.55																					
1015	Collect LVW0.55 + FD + FB samples																					
1100	Collect samples LVW3.5-1 through -6																					
1200	Collect samples LVW4.2-1 through -4. Modified collection location for LVW4.2-4 to 36.09504°N, -114.95476°E due to bank encroachment																					
<del>1245</del> 1245	Collect samples LVW4.75-1 through -5																					
1400	Collect samples LVW5.3-1 through -6. Modified collection point for LVW5.3-2 to 36.09013°N, -114.97324°E due to sand bar; Modified LVW5.3-6 to 36.09063°N, -114.97398°E due to bank encroachment																					
1500	Collect samples C1-E & C1-W. No flow at C12																					
	<table border="1"> <thead> <tr> <th></th> <th>d (mm)</th> <th>w (mm)</th> <th>t. (s)</th> <th>V<sub>1</sub> (D)</th> <th>t<sub>2</sub> (s)</th> <th>V<sub>2</sub> (L)</th> </tr> </thead> <tbody> <tr> <td>C1-E</td> <td>4</td> <td>130</td> <td>9.39</td> <td>0.65</td> <td>1598</td> <td>1.15</td> </tr> <tr> <td>C1-W</td> <td>27</td> <td>245</td> <td>2.51</td> <td>7.5</td> <td>2.70</td> <td>7.5</td> </tr> </tbody> </table>		d (mm)	w (mm)	t. (s)	V <sub>1</sub> (D)	t <sub>2</sub> (s)	V <sub>2</sub> (L)	C1-E	4	130	9.39	0.65	1598	1.15	C1-W	27	245	2.51	7.5	2.70	7.5
	d (mm)	w (mm)	t. (s)	V <sub>1</sub> (D)	t <sub>2</sub> (s)	V <sub>2</sub> (L)																
C1-E	4	130	9.39	0.65	1598	1.15																
C1-W	27	245	2.51	7.5	2.70	7.5																
1630	Return to office, store samples, calibrate YSI, done for day																					

 LVW8.85: 36.107231, -115.019994 LVW5.3-6: 36.090660, -114.973903 Modified LVW4.2-2: 36.094817, -114.954612 LVW7.2: 36.090604, -115.000302 C1-E: 36.086147, -114.972022 LVW4.2-3: 36.094978, -114.954716 LVW6.6-1: 36.089005, -114.992888 C1-W: 36.086147, -114.972022 LVW4.2-4: 36.095108, -114.954806 Modified LVW6.6-2: 36.089155, -114.992828 C12: 36.086125, -114.970255 No Flow LVW3.5-1: 36.100422, -114.943298 LVW6.6-3: 36.089265, -114.992858 LVW4.75-1: 36.092979, -114.961810 LVW3.5-2: 36.100459, -114.943329 LVW6.05: 36.087849, -114.985682 LVW4.75-2: 36.093130, -114.961928 LVW3.5-3: 36.100548, -114.943390 LVW5.3-1: 36.089867, -114.973112 LVW4.75-3: 36.093277, -114.962051 LVW3.5-4: 36.100585, -114.943405 LVW5.3-2: 36.090072, -114.973322 Modified LVW4.75-4: 36.093431, -114.962174 LVW3.5-5: 36.100606, -114.943451 LVW5.3-3: 36.090218, -114.973467 LVW4.75-5: 36.093580, -114.962301 LVW3.5-6: 36.100645, -114.943493 LVW5.3-4: 36.090367, -114.973612 LVW4.2-1: 36.094695, -114.954570 LVW0.55: 36.122158, -114.904631 LVW5.3-5: 36.090513, -114.973758

Prepared by: Jesse Bunkers

Signature:

Date: 9/5/23



Task Name: LVW Surface Water Sampling	Task Manager: Jesse Bunkers	Date: 9/6/23
Field Personnel: JB, JH		Task No: M15
Location: Las Vegas Wash	Tablet #: 1	Reported by: J. Bunkers

Weather Conditions: 98° F, Sunny, Calm  
 Total Vehicle Mileage: 20  
 Task Visitors / Subcontractors: Endeavor: Gary Carter, Megan Nicola  
 Matters of Safety:  
 Rapid water, Heat stress  
 Problems / Concerns and Corrective Actions Taken:  
 None

Time	Activities
0730	Arrive at TE office, gather supplies
0800	Stop for ice at gas station
0830	Arrive at Pabco Trailhead parking lot, meet Endeavor, safety meeting.
0900	Collect samples LVW6.05 + FD + F13
0945	Collect samples LVW6.6-1, -2, and -3
1015	Collect samples LVW7.2 + FD
1115	Collect sample LVW8.85
1215	Arrive at office, upload, store equipment
1230	Hand off samples to ETA lab courier, start report
1430	Done for day

<input checked="" type="checkbox"/> LVW8.85: 36.107231, -115.019994	<input type="checkbox"/> LVW5.3-6: 36.090660, -114.973903	<input type="checkbox"/> LVW4.2-2: 36.094817, -114.954612
<input checked="" type="checkbox"/> LVW7.2: 36.090604, -115.000302	<input type="checkbox"/> C1-E: 36.086147, -114.972022	<input type="checkbox"/> LVW4.2-3: 36.094978, -114.954716
<input checked="" type="checkbox"/> LVW6.6-1: 36.089005, -114.992888	<input type="checkbox"/> C1-W: 36.086147, -114.972022	<input type="checkbox"/> LVW4.2-4: 36.095108, -114.954806
<input checked="" type="checkbox"/> LVW6.6-2: 36.089155, -114.992828	<input type="checkbox"/> C12: 36.086125, -114.970255 No Flow	<input type="checkbox"/> LVW3.5-1: 36.100422, -114.943298
<input checked="" type="checkbox"/> LVW6.6-3: 36.089265, -114.992858	<input type="checkbox"/> LVW4.75-1: 36.092979, -114.961810	<input type="checkbox"/> LVW3.5-2: 36.100459, -114.943329
<input checked="" type="checkbox"/> LVW6.05: 36.087849, -114.985682	<input type="checkbox"/> LVW4.75-2: 36.093130, -114.961928	<input type="checkbox"/> LVW3.5-3: 36.100548, -114.943390
<input type="checkbox"/> LVW5.3-1: 36.089867, -114.973112	<input type="checkbox"/> LVW4.75-3: 36.093277, -114.962051	<input type="checkbox"/> LVW3.5-4: 36.100585, -114.943405
<input type="checkbox"/> LVW5.3-2: 36.090072, -114.973322	<input type="checkbox"/> LVW4.75-4: 36.093431, -114.962174	<input type="checkbox"/> LVW3.5-5: 36.100606, -114.943451
<input type="checkbox"/> LVW5.3-3: 36.090218, -114.973467	<input type="checkbox"/> LVW4.75-5: 36.093580, -114.962301	<input type="checkbox"/> LVW3.5-6: 36.100645, -114.943493
<input type="checkbox"/> LVW5.3-4: 36.090367, -114.973612	<input type="checkbox"/> LVW4.2-1: 36.094695, -114.954570	<input type="checkbox"/> LVW0.55: 36.122158, -114.904631
<input type="checkbox"/> LVW5.3-5: 36.090513, -114.973758		

Prepared by: Jesse Bunkers Signature: Date: 9/6/23



# **Attachment C Calibration Logs**

### YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: FM

DATE: 9-2-23

RENTAL CUSTOMER:

#### INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS. 11

SERIAL NUMBER: 17M100628

#### CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	<u>/</u>	<u>079929</u>
2. pH ZERO	pH 7	<u>/</u>	<u>086097</u>
pH SLOPE	pH 4	<u>/</u>	<u>086096</u>
pH SLOPE	pH 10	<u>/</u>	<u>082794</u>
3. DISSOLVED OXYGEN	Air Calibration	<u>/</u>	N/A
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	<u>/</u>	N/A
ZERO TEST	(Sodium Sulfite)	<u>/</u>	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	<u>/</u>	N/A
TURBIDITY SPAN	100 NTU's	<u>/</u>	<u>9/1/23</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<u>/</u>	<u>120522</u>





# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie, Ramboll

---

**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, and Emeryville Lab Data; Ramboll  
Dana Grady, Tetra Tech

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**From:** Jesse Bunkers and Katelyn Goen

---

**Date:** November 20, 2023

---

**Subject:** **October 2023 Monthly Groundwater Monitoring Summary  
Nevada Environmental Response Trust Site  
Henderson, Nevada**

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## MONTHLY DEPTH TO WATER MEASUREMENTS

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the October 2023 monthly depth-to-water measurements. This activity was performed in accordance with the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan, Revision 3* dated December 16, 2022 (SAP), which was approved by the Nevada Division of Environmental Protection (NDEP) on January 4, 2023, and *Field Guidance Document No. 008 – Groundwater and Free Product Level Measurements*, dated March 24, 2017.

Figure 1 identifies the 24 monitoring well locations requiring depth-to-water measurements as part of the monthly groundwater monitoring event detailed on Table 3 (Monthly Monitoring Program Summary) of the SAP. Depth-to-water measurements were collected from all 24 wells on October 2, 2023.

The field water level measurement log is included as Attachment A and the field investigation daily log is included as Attachment B. The electronic data deliverable (EDD) with the recorded depth to water data is transmitted separately via email as an Excel file.

## CERTIFICATION

---

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the October 2023 Monthly Groundwater Monitoring Summary



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

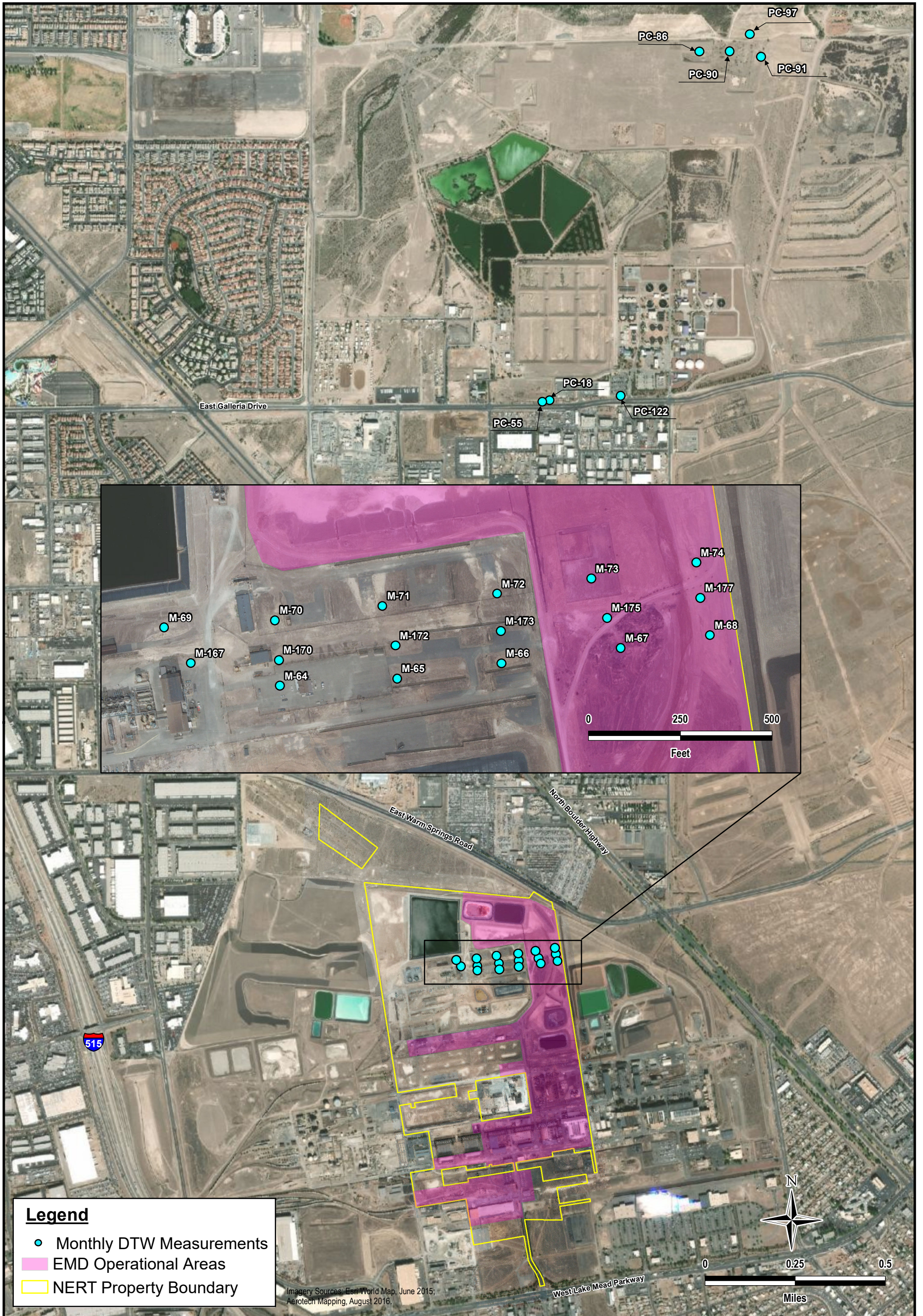
November 20, 2023

Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

**Figure**





P:\BLD01520225\_NERT\GWMONITORING\FIELD MAPS\FIG01\_MONTHLYWLM\_ES.MXD



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Henderson, Nevada 89015  
Phone: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

GROUNDWATER MONITORING PROGRAM  
HENDERSON, NEVADA

MONTHLY WATER LEVEL MEASUREMENT WELLS

Project No.: 117-7502017

Date: JULY 10, 2020

Designed By: ES

Figure No.

1



**Attachment A**  
**Field Water Level Measurement Log**



# WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 10/2/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number(s): 348438	Recorded by: J. Heintz

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
13:57	M-64	TOC	30.05	Good	Y
13:53	M-65	TOC	33.46	Good	N
13:43	M-66	TOC	32.00	Good	DP
12:57	M-67	TOC	22.85	Good	Y
12:49	M-68	TOC	27.48	Good	Y
14:46	M-69	TOC	34.86	Good	N
14:39	M-70	TOC	36.22	Good	DP
14:34	M-71	TOC	35.74	Good	Y
14:31	M-72	TOC	32.33	Good	DP
13:01	M-73	TOC	31.01	Good	Y
12:43	M-74	TOC	30.22	Good	Y
14:42	M-167	TOC	29.85	Good	N
14:07	M-170	TOC	29.81	Good	N
13:49	M-172	TOC	33.53	Good	N
13:46	M-173	TOC	29.37	Good	N
12:53	M-175	TOC	21.82	Good	N
12:45	M-177	TOC	22.43	Good	N
11:42	PC-18	TOC	32.03	Good	Y
11:48	PC-55	TOC	30.82	Good	Y
11:19	PC-86	TOC	7.21	Good	Y
11:14	PC-90	TOC	0.91	Good	Y
11:06	PC-91	TOC	7.28	Good	Y
10:57	PC-97	TOC	0.68	Good	Y
11:33	PC-122	TOC	31.56	Good	Y

BMP = Below Measuring Point    DP = Dedicated Pump    OS = Offsite Storage    TOC = Top of Casing (Well Riser)



**Attachment B**  
**Field Investigation Daily Log**



Task Name: GW Monitoring

Task Manager: Jesse Bunkers

Date: 10/2/23

Field Personnel:

Task No: H02

Location: Site Wide

Tablet #: 5

Reported by: JH

Weather Conditions: sunny, H 77

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: none

Matters of Safety: bw, traffic

Problems / Concerns and Corrective Actions Taken:

none

Time	Activities
------	------------

0930	Move to NW area.
1015	Arrive at NW, begin DTW measurements.
1130	Arrive at COH property.
1215	Arrive at Borman.
1315	Arrive at NERT.
1530	Done for day, after uploading data.

PC97: 0.60, 30.05  
 M67: 22.85, 39.58  
 N651: 33.46, 41.24

# October 2023 Sampling Event

**DTW readings taken manually for all Interceptor Wells, SWF, AWF and AP5 Wells unless otherwise noted**

**Issues/Concerns**

IWF, SWF, AWF, AP5 Wells	DTWs taken from PLC except where manual DTWs needed. Manual depths taken with a Geotech Water Level Meter #8467
PC99R2/R3	When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading. Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel
AP5 Wells	Sampled by ETI 2023 10 05. Will be done on a Monthly basis by ETI.
*PC-115R; PC-116R; ART-1;	All have more than 1-foot difference in DTW from 09/2023 to 10/2023. Data recorded on field sheet.
*ART-2A; ART-3; ART-4; ART-4A;	
*ART-7A; ART-7B; ART-8; ART-8A; ART-9;	
*PC-150; I-AD; I-C; I-D; I-G; I-H; I-J; I-L; I-M;	
*I-N; I-P; I-S; I-V; I-X; I-Y	
ART-2 and ART-2A	Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2022 10 12.
I-AB, I-AC	DTW taken prior to turning well on to sample, purged prior to collecting sample.
I-Q	DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe.  Emily McGuire sampled OCTOBER 2023.
SWF	Increased DTWs across SWF/AWF due to Henderson Water discharging into nearby ponds.

**FD/EB**

<b>SWF</b>	PC-119 2023 10 12 – FD	PC-120 2023 10 12 - EB
<b>AWF</b>	ART-4 2023 10 12 – FD	ART-7A 2023 10 12 - EB
<b>IWF</b>	I-R 2023 10 10 – FD	I-S 2023 10 10 - EB
<b>AP5 Wells</b>	E1-2 2023 10 05 - FD	E1-3 2023 10 05 - EB

\*\*Per email from Emily Gilson dated 4/12/2017 – removed historical\_reference\_elev and water\_level\_elev data from 2017 Groundwater Sampling EDD

Field Forms changes	TWD will be marked with a “NM” not measured, unless a manual reading obtained. Manually record TWD in May
Monthly Table changes	Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18  Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott 7/19/2017
Sampling Changes	Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by Tetra Tech in November and May.



## WATER SAMPLING FIELD LOG

Well: **1-AA**

Date(s): **10/10/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **79° Sunny**

DTW ONLY

**Well Depth Information-** Date: **10/10/23** Time: **0700**

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **46.43**  
 Manually Taken at Well  Taken at Control Panel

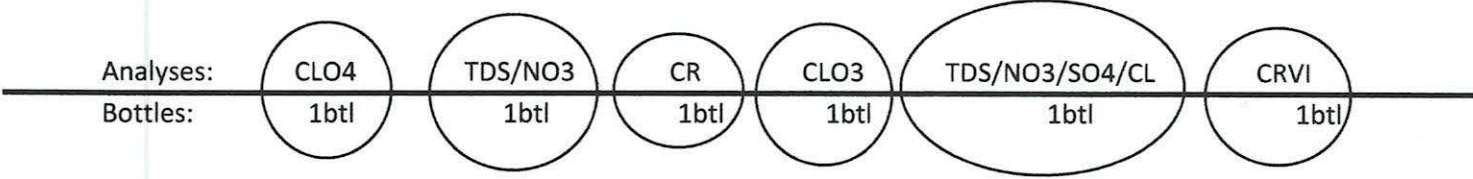
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/10/23** Start Time: **0750**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0751</b>	<b>6.72</b> <small>pH</small>	<b>4.41</b> <small>mS/Cm</small>	<b>26.0</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>0755</b>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>1-AB</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>79° Sunny</b>	

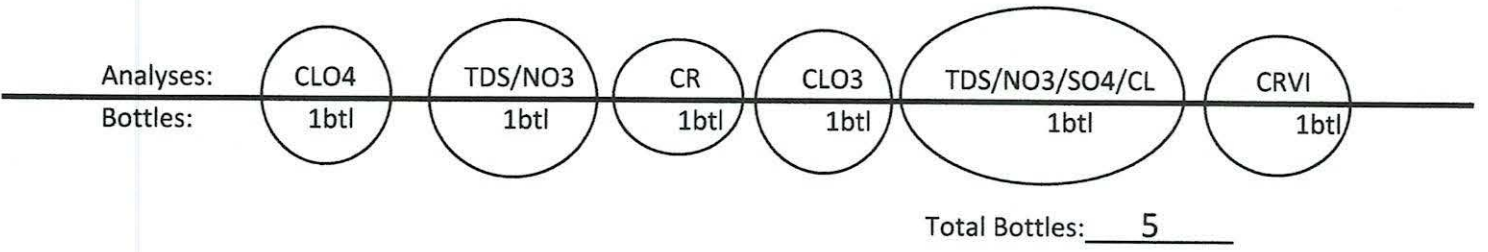
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>35.51</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at <b>0759</b> , flowing at _____ gpm. Purged for _____ minutes, <b>2</b> minutes required per well purge spreadsheet. Turned well off at _____. <div style="text-align: right; font-size: 1.2em;"><b>@ 6.7 gpm</b></div>
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0759</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0803</b>	<b>6.81</b> <small>pH</small>	<b>4.62</b> <small>mS/Cm</small>	<b>26.7</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0806</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-AC

Project/Site: NERT Project - Henderson Nevada

Date(s): 10/12/23

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 63° sunny

DTW ONLY

**Well Depth Information-** Date: 10/12/23 Time: 0630

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 29.70  
 Manually Taken at Well  Taken at Control Panel

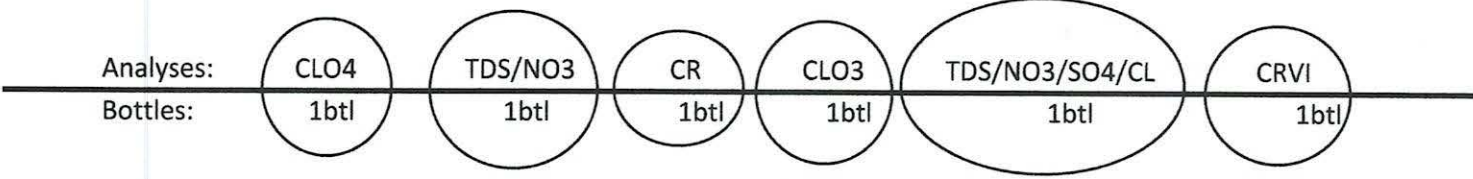
Height of Water Column(ft):

**Well Purge Required**

Turned pump on at 0801, flowing at 2.95 gpm. Purged for 6 minutes, 4 minutes required per well purge spreadsheet. Turned well off at @ 3.7 gpm.

**Field Measurements-** Date: 10/12/23 Start Time: 0801

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0807</u>	<u>7.56</u> <small>pH</small>	<u>6.86</u> <small>mS/Cm</small>	<u>21.0</u> <small>°C</small>	
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0810</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-AD</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>sunny 63°</b>	

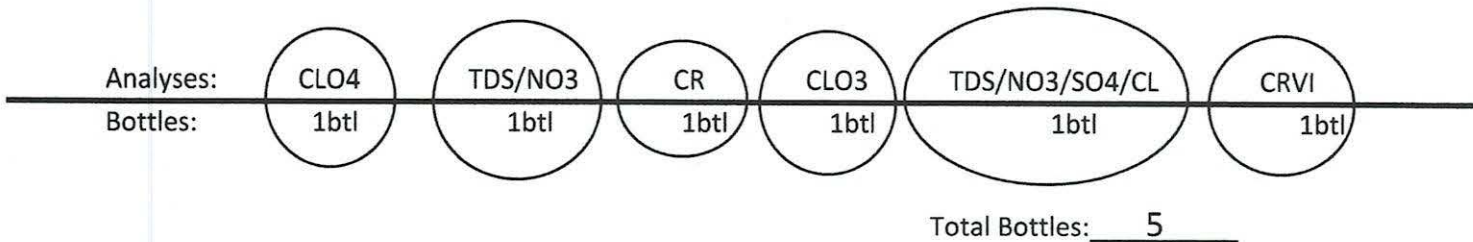
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>34.05*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/12/23</b>	Start Time: <b>0810</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0811</b>	<b>7.52</b> <small>pH</small>	<b>7.04</b> <small>mS/Cm</small>	<b>24.1</b> <small>°C</small>	<b>*manually verified</b>		
Sample Appearance: <b>pale yellow</b>						
Finish Time: <b>0815</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

Well: **1-AR**

Date(s): **10/10/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **80° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/10/23** Time: **0700**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **43.81**  
 Manually Taken at Well  Taken at Control Panel

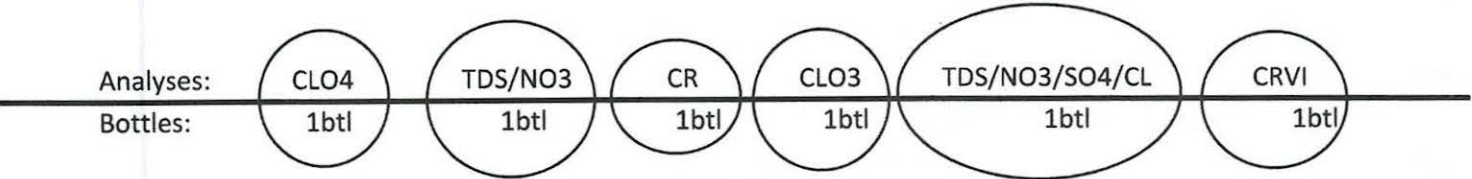
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/10/23** Start Time: **0844**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0845</b>	<b>7.61</b> <small>pH</small>	<b>5.82</b> <small>mS/Cm</small>	<b>28.6</b> <small>°C</small>	
Sample Appearance: <b>pale yellow</b>				
Finish Time: <b>0849</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>79° sunny</b>	

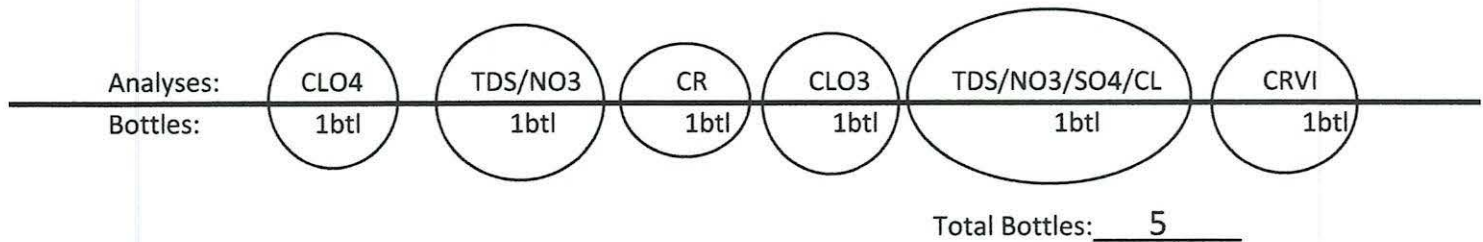
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.11</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0806</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0807</b>	<b>7.22</b> <small>pH</small>	<b>4.99</b> <small>mS/Cm</small>	<b>27.3</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0811</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-C</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>82° sunny</b>	

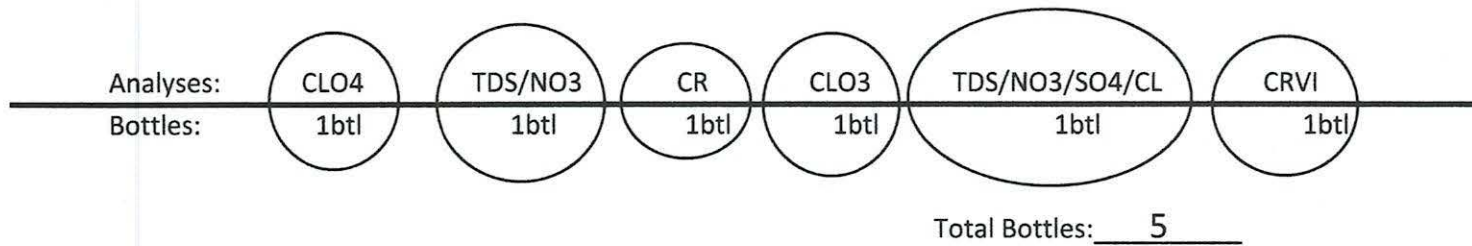
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.48*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0853</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0854</b>	<b>7.50</b> <small>pH</small>	<b>6.72</b> <small>mS/Cm</small>	<b>27.6</b> <small>°C</small>	<b>*verified manually</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0858</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-D</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>82° sunny</b>	

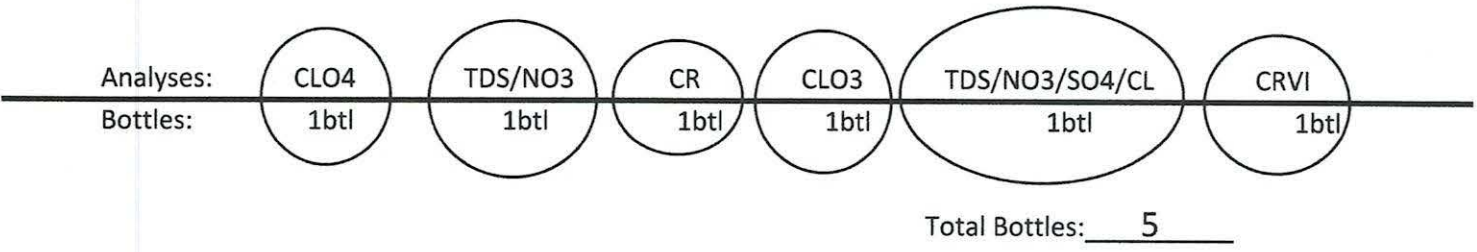
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<b>34.59*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/10/23</b>	Start Time: <b>0859</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0900</b>	<b>7.58</b> <small>pH</small>	<b>7.41</b> <small>mS/Cm</small>	<b>29.2</b> <small>°C</small>	<b>*manually verified</b>		
Sample Appearance: <b>pale yellow</b>						
Finish Time: <b>0903</b>						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <b>1-E</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>82° Sunny</b>	

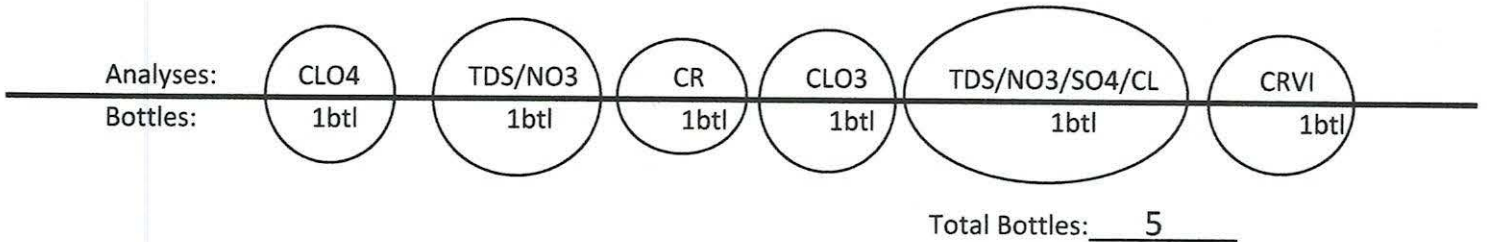
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>38.13</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0911</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0912</b>	<b>7.66</b> <small>pH</small>	<b>7.38</b> <small>mS/Cm</small>	<b>28.6</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>0916</b>					



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



## WATER SAMPLING FIELD LOG

Well: **1-F**

Project/Site: NERT Project - Henderson Nevada

Date(s): **10/10/13**

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **84° Sunny**

DTW ONLY

**Well Depth Information-** Date: **10/10/13** Time: **0700**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **40.46**  
 Manually Taken at Well  Taken at Control Panel

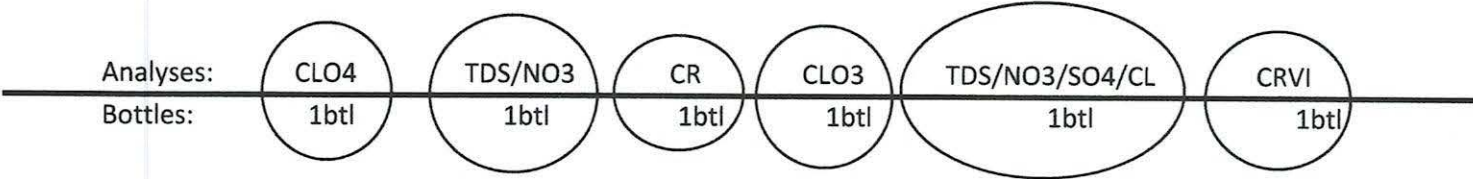
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/10/13** Start Time: **0928**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0929</b>	<b>7.46</b> <small>pH</small>	<b>8.49</b> <small>mS/Cm</small>	<b>28.0</b> <small>°C</small>	
Sample Appearance: <b>yellow</b>				
Finish Time: <b>0933</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-G</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 85°</b>	

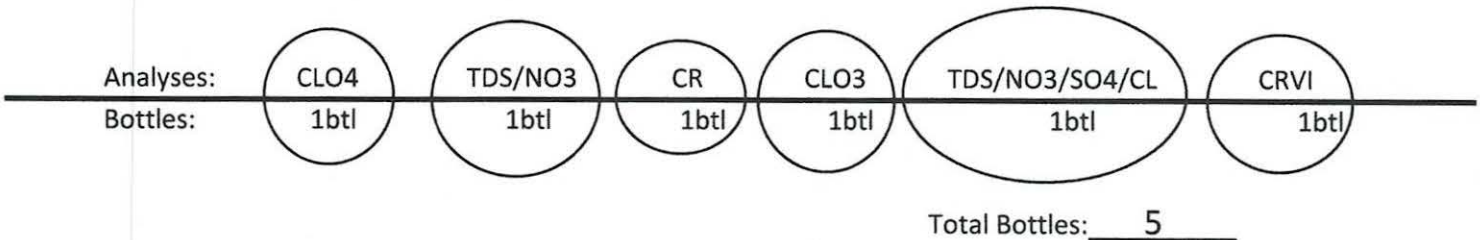
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>40.52*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0951</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0952</b>	<b>7.46</b> <small>pH</small>	<b>10.42</b> <small>mS/Cm</small>	<b>30.9</b> <small>°C</small>	<b>* manually verified</b>	
Sample Appearance: <b>yellow</b>					
Finish Time: <b>0958</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-H</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>85° sunny</b>	

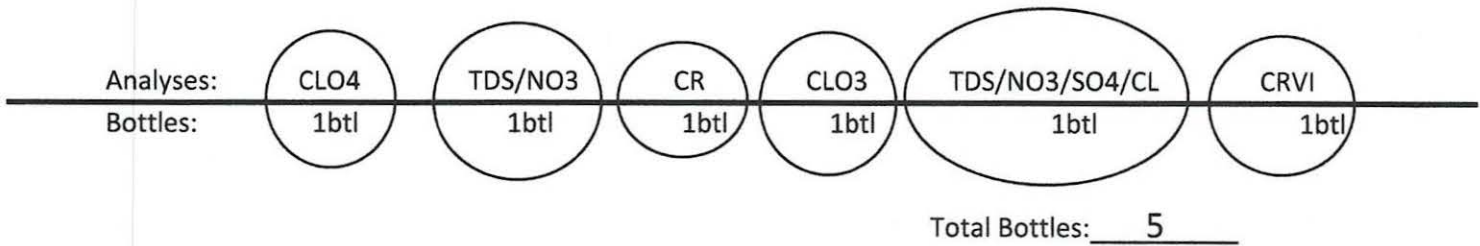
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>34.04*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>10/10/23</b>	Start Time: <b>1016</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>1017</b>	<b>7.39</b> <small>pH</small>	<b>8.93</b> <small>mS/Cm</small>	<b>29.3</b> <small>°C</small>	<b>*manually verified</b>
Sample Appearance: <b>bright yellow</b>				
Finish Time: <b>1029</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-1</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>62° Sunny</b>	

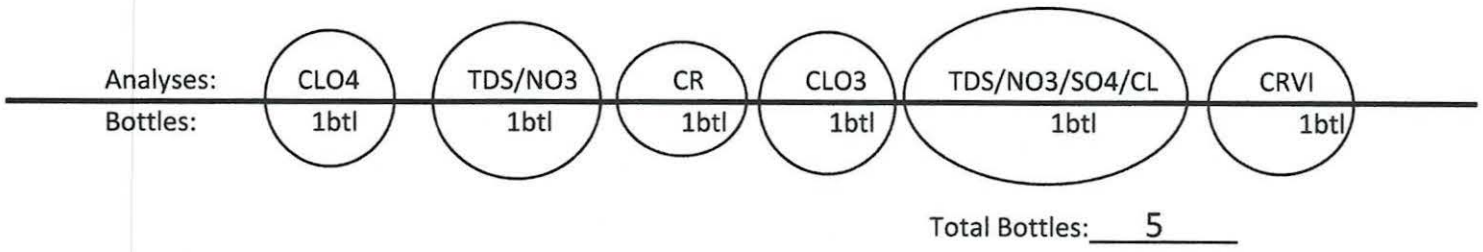
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10   12   23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>24.64</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10   12   23</b>	Start Time: <b>0732</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0733</b>	<b>7.76</b> <small>pH</small>	<b>7.00</b> <small>mS/Cm</small>	<b>22.4</b> <small>°C</small>		
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0738</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-J</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>63° Sunny</b>	

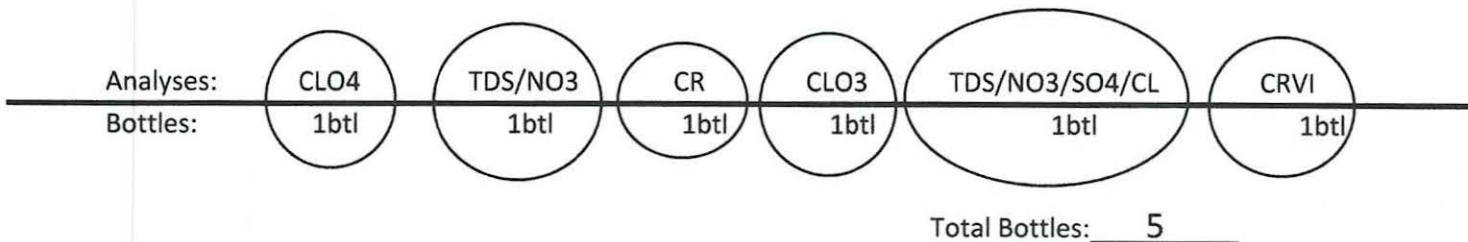
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>37.89*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/12/23</b>	Start Time: <b>0745</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0746</b>	<b>7.76</b> <small>pH</small>	<b>5.87</b> <small>mS/Cm</small>	<b>22.4</b> <small>°C</small>	<b>* manually verified</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0750</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-K</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10   12   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>63° sunny</b>	

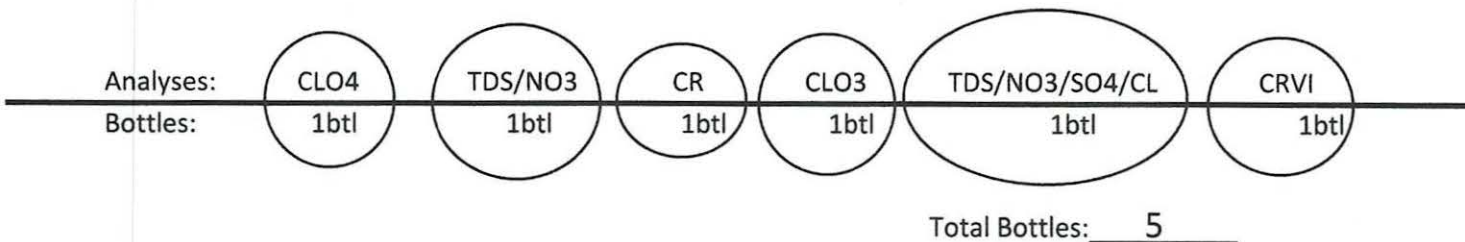
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10   12   23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>36.13</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10   12   23</b>	Start Time: <b>0755</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0756</b>	<b>7.54</b> <small>pH</small>	<b>6.84</b> <small>mS/Cm</small>	<b>23.7</b> <small>°C</small>		
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0800</b>					



DUP EC Reading	QC
<b>6.84</b> <small>mS/Cm</small>	<b>7.00</b> <small>pH</small>
<b>23.6</b> <small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>1-L</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 80°</b>	

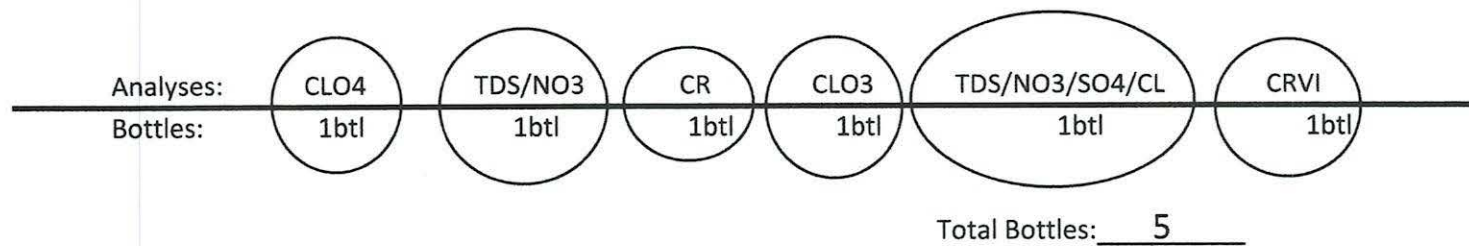
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>	
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>			
Depth to Water(ft): <b>36.60*</b>			
		<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):			

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0830</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0831</b>	<b>7.51</b> <small>pH</small>	<b>5.97</b> <small>mS/Cm</small>	<b>28.8</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0835</b>					



DUP EC Reading	QC
<b>5.95</b> <small>mS/Cm</small>	<b>6.98</b> <small>pH</small>
<b>28.7</b> <small>°C</small>	

## WATER SAMPLING FIELD LOG

	Well: <b>1-m</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>82° sunny</b>	

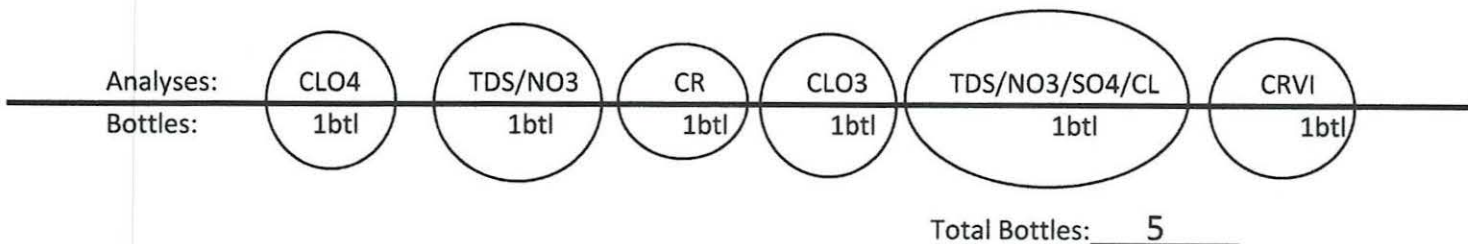
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>32.82*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0904</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0905</b>	<b>7.58</b> <small>pH</small>	<b>7.59</b> <small>mS/Cm</small>	<b>27.1</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0910</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **1-n**

Date(s): **10/10/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **82° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/10/23** Time: **0700**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **31.58\***  
 Manually Taken at Well  Taken at Control Panel

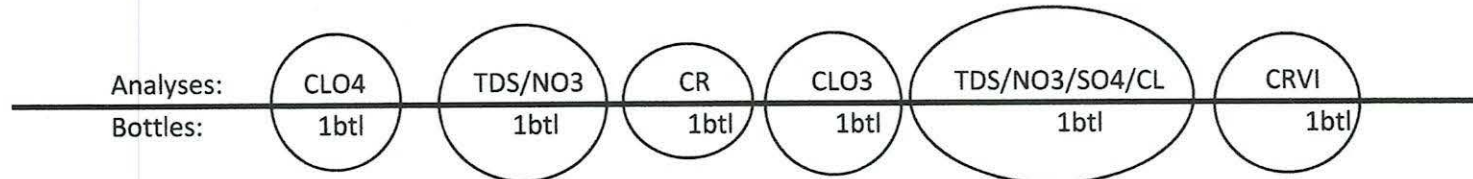
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/10/23** Start Time: **0917**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0918</b>	<b>7.43</b> pH	<b>7.54</b> mS/Cm	<b>26.7</b> °C	<b>*manually verified</b>
Sample Appearance: <b>yellow</b>				
Finish Time: <b>0922</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-0</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>85° Sunny</b>	

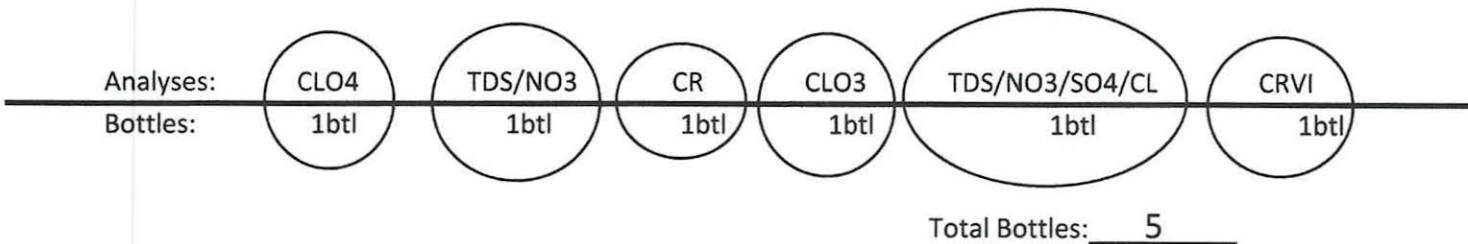
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>31.35</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>1032</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1033</b>	<b>7.54</b> <small>pH</small>	<b>7.80</b> <small>mS/Cm</small>	<b>30.4</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>1034</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-P</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>85° sunny</b>	

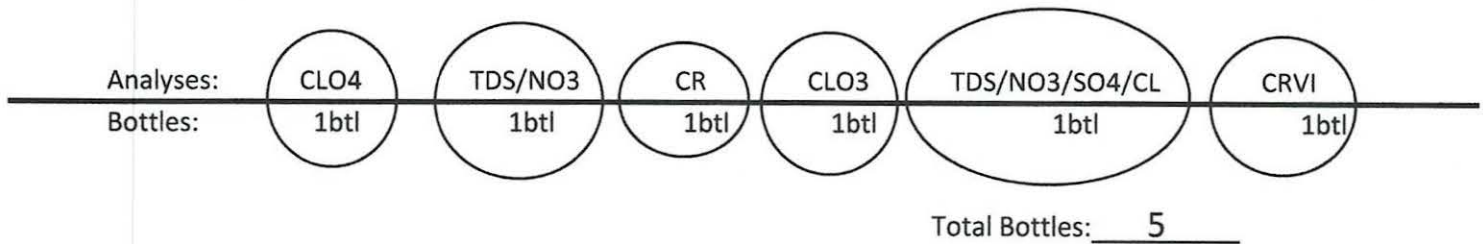
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>33.92*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>1022</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1023</b>	<b>7.53</b> <small>pH</small>	<b>8.10</b> <small>mS/Cm</small>	<b>28.6</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>1027</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-Q</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>84° sunny</b>	

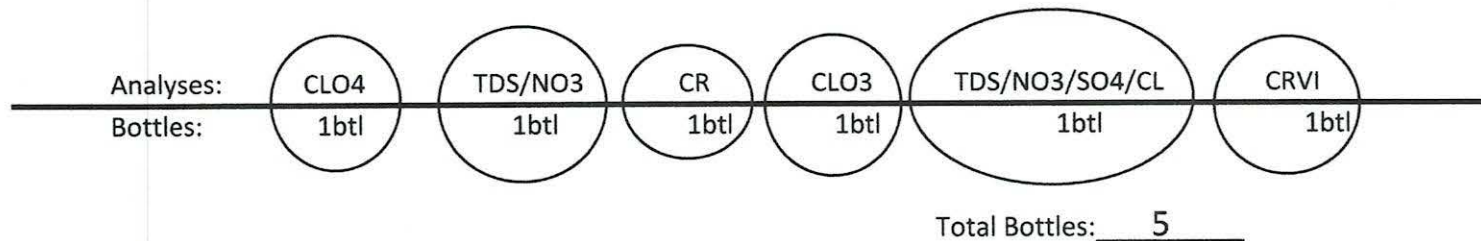
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>37.54</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/10/23</b>	Start Time: <b>0947</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0948</b>	<b>7.28</b> <small>pH</small>	<b>8.99</b> <small>mS/Cm</small>	<b>28.6</b> <small>°C</small>			
Sample Appearance: <b>yellow</b>						
Finish Time: <b>0951</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>80° sunny</b>	

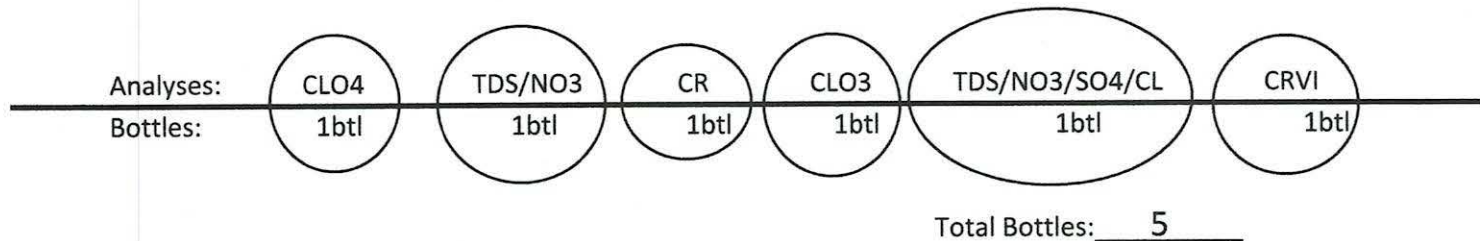
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>37.60</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0812</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0813</b>	<b>7.47</b> <small>pH</small>	<b>5.99</b> <small>mS/Cm</small>	<b>27.2</b> <small>°C</small>		
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0819</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

**1-R 2023 10 10 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 PH: 7.47  
 EC: 6.00  
 C: 27.2

# WATER SAMPLING FIELD LOG

	Well: <b>1-S</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>80° Sunny</b>	

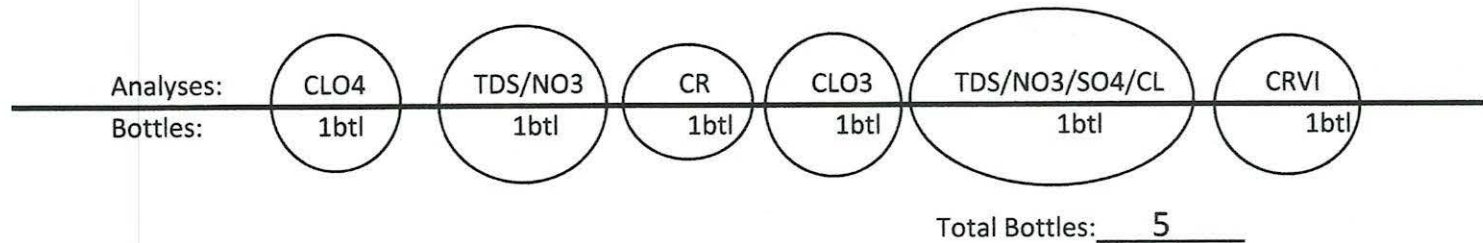
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>44.12*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0836</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0837</b>	<b>7.38</b> <small>pH</small>	<b>6.06</b> <small>mS/Cm</small>	<b>26.4</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0841</b>					



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

**1-S 2023 10 10 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 9.13  
 EC: 0.03  
 C: 27.1  
 Time: 0839



# WATER SAMPLING FIELD LOG

	Well: <b>1-T</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>85° sunny</b>	

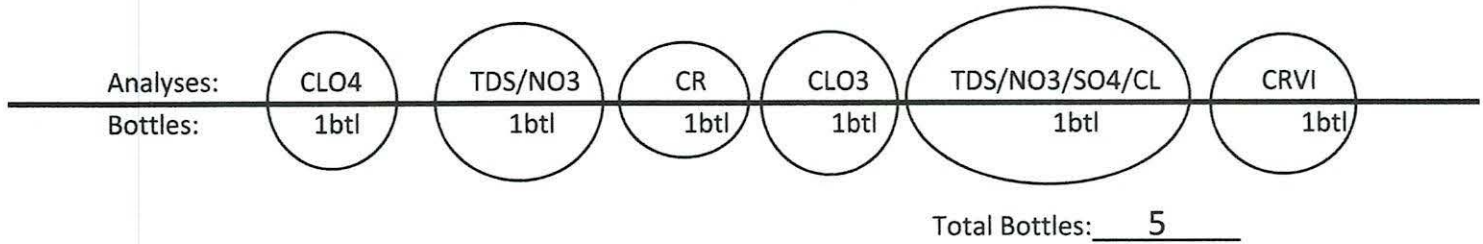
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>44.30</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0959</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1000</b>	<b>7.12</b> <small>pH</small>	<b>9.74</b> <small>mS/Cm</small>	<b>30.2</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1004</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-U</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>85° sunny</b>	

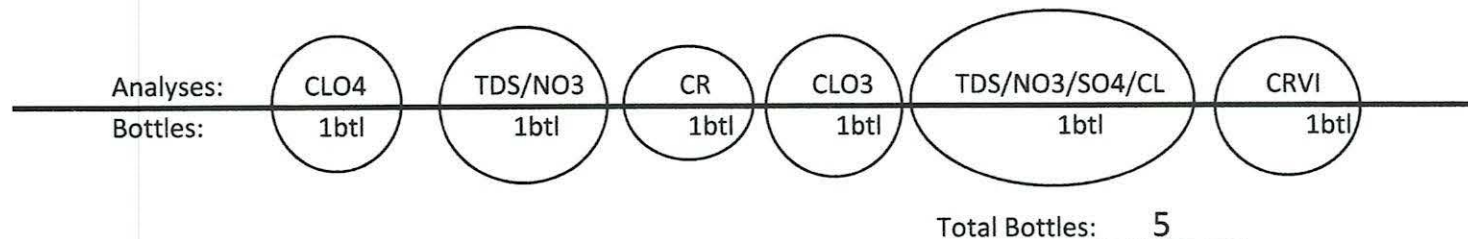
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>44.35</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>1009</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1010</b>	<b>7.21</b> <small>pH</small>	<b>9.53</b> <small>mS/Cm</small>	<b>28.5</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>1015</b>					



DUP EC Reading	QC
<b>9.54</b> <small>mS/Cm</small>	<b>6.99</b> <small>pH</small>
<b>28.5</b> <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>1-V</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10   12   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>62° Sunny</b>	

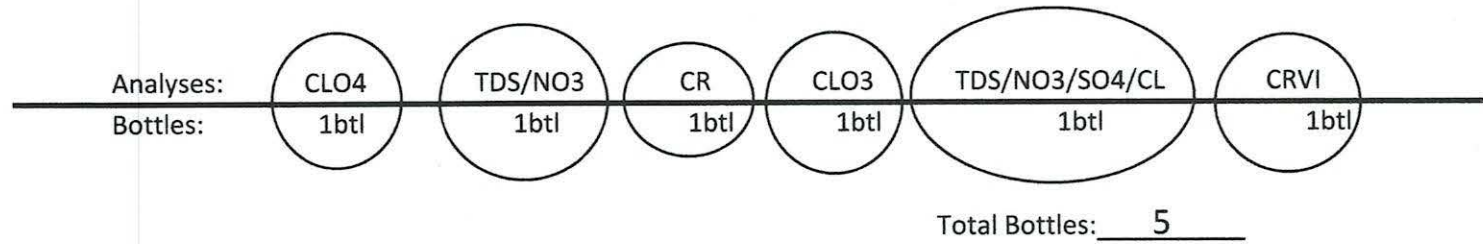
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10   12   23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>37.08*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10   12   23</b>	Start Time: <b>0723</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0724</b>	<b>7.42</b> <small>pH</small>	<b>7.14</b> <small>mS/Cm</small>	<b>21.5</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0731</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-W</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>85° sunny</b>	

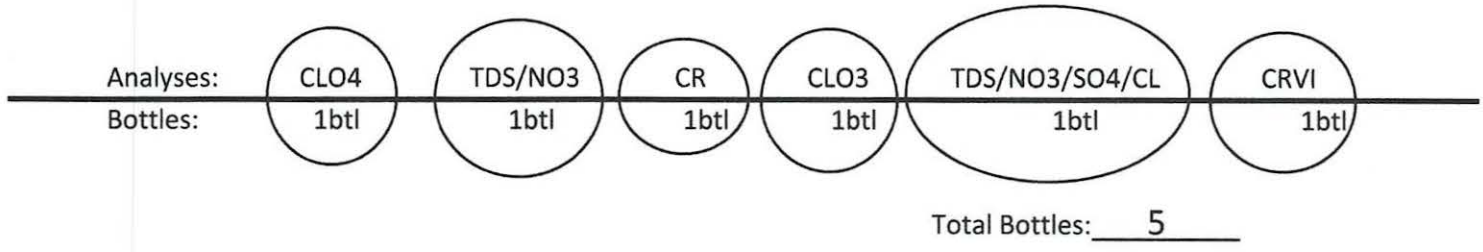
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>41.30</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>1027</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1028</b>	<b>7.56</b> <small>pH</small>	<b>7.75</b> <small>mS/Cm</small>	<b>28.5</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>1031</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-X</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>82° sunny</b>	

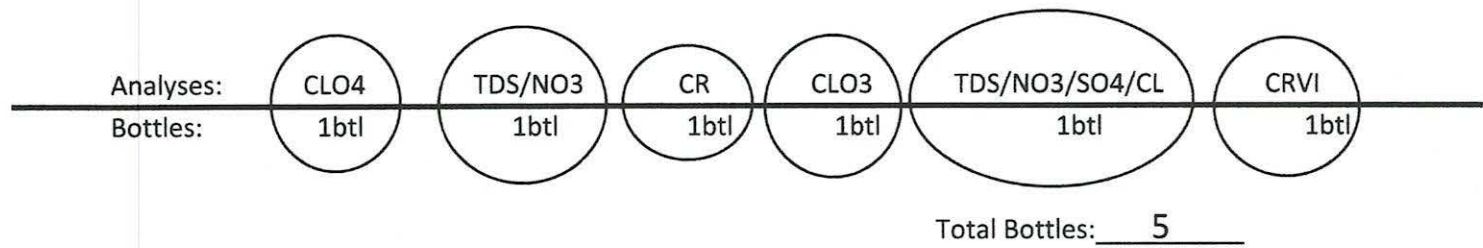
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>35.95</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/10/23</b>	Start Time: <b>0922</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0923</b>	<b>7.66</b> <small>pH</small>	<b>8.31</b> <small>mS/Cm</small>	<b>28.0</b> <small>°C</small>	<b>*manually verified</b>	
Sample Appearance: <b>yellow</b>					
Finish Time: <b>0927</b>					



DUP EC Reading	QC
<b>8.29</b> <small>mS/Cm</small>	<b>6.98</b> <small>pH</small>
<b>28.1</b> <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>1-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/10/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>80° Sunny</b>	

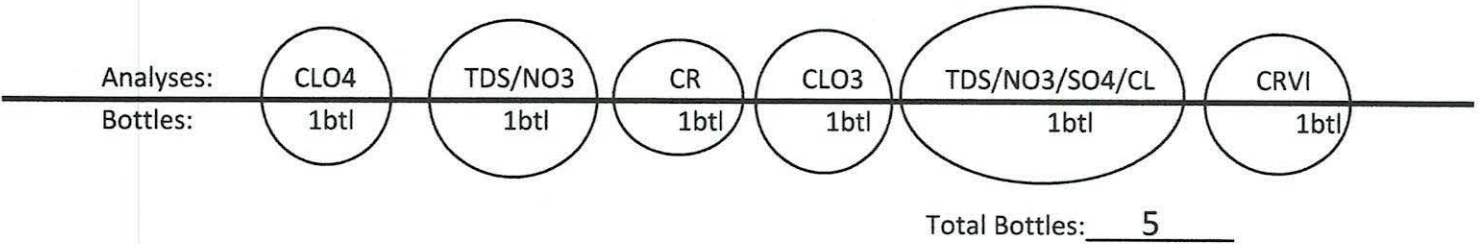
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/10/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.66*</b>	
	<input type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/10/23</b>	Start Time: <b>0825</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0826</b>	<b>7.31</b> <small>pH</small>	<b>5.93</b> <small>mS/Cm</small>	<b>27.6</b> <small>°C</small>	<b>*manually verified</b>		
Sample Appearance: <b>pale yellow</b>						
Finish Time: <b>0830</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **1-Z**

Project/Site: NERT Project - Henderson Nevada

Date(s): **10/12/23**

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **62° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0720**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **33.73**  
 Manually Taken at Well  Taken at Control Panel

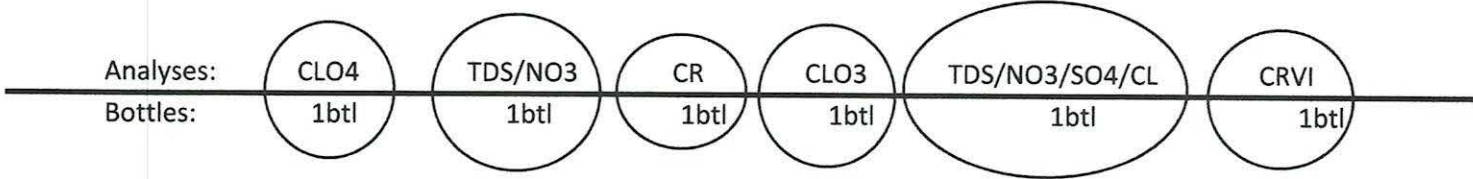
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **0738**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0739</b>	<b>7.73</b> <small>pH</small>	<b>5.42</b> <small>mS/Cm</small>	<b>24.1</b> <small>°C</small>	
Sample Appearance: <b>pale yellow</b>				
Finish Time: <b>0743</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-1**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **70° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **1011**

Total Well Depth(ft): NM  
(‘NM’ - No measurement taken, manually measured annually)

Depth to Water(ft): **27.00\***  
 Manually Taken at Well  Taken at Control Panel

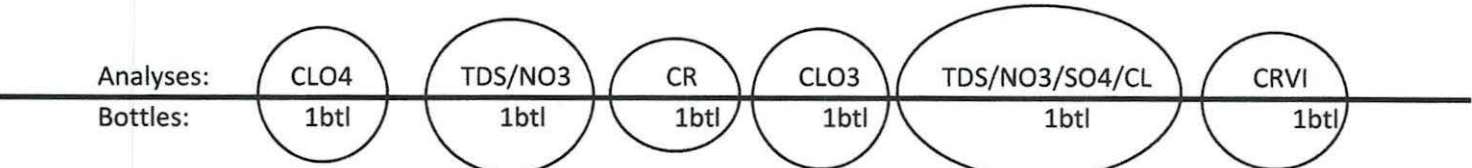
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~**Field Measurements-** Date: \_\_\_\_\_ Start Time: \_\_\_\_\_~~

Sample Time	pH	EC/MC	Temp	Well Observations
				<b>*measured 2x</b>
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-1A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>70° sunny</b>	

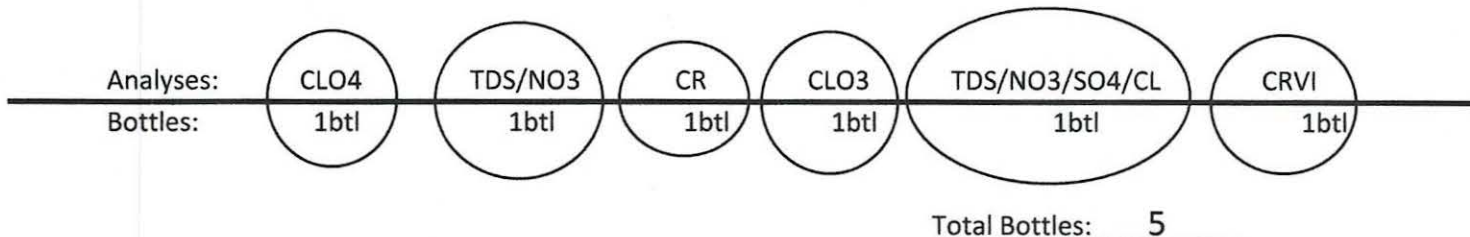
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>1012</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>28.09</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/12/23</b>	Start Time: <b>1025</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1026</b>	<b>7.54</b> <small>pH</small>	<b>6.33</b> <small>mS/Cm</small>	<b>23.5</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1030</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-2\***

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **70° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **28.99**  
 Manually Taken at Well  Taken at Control Panel

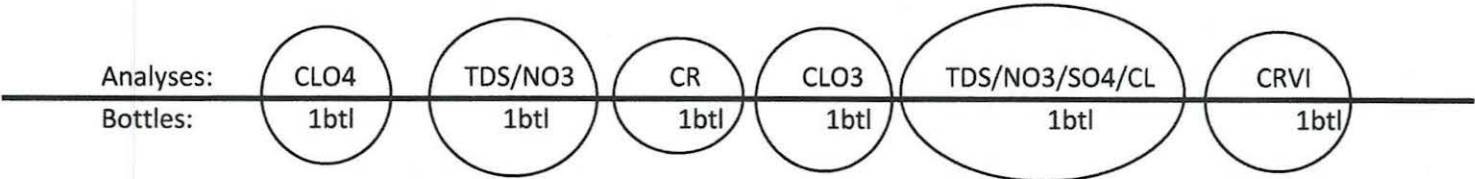
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **1030**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1031</b>	<b>7.29</b> pH	<b>12.26</b> mS/Cm	<b>24.8</b> °C	<b>*ART-2 and ART-2A running concurrently, bottles labeled ART-2/2A 2023 10 12.</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>1034</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-2A\***

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **70° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **1015**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **35.96\*\***  
 Manually Taken at Well  Taken at Control Panel

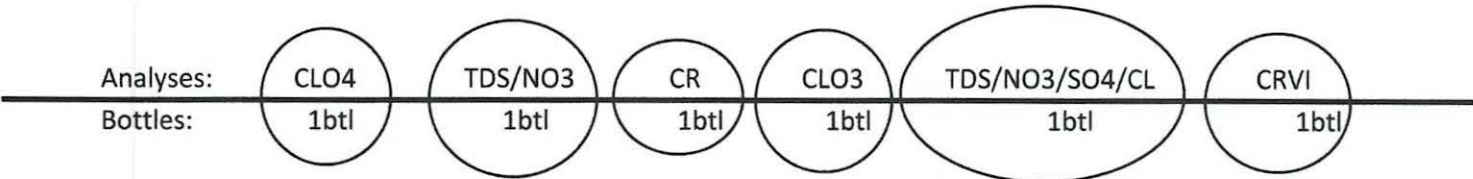
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time:

Sample Time	pH	EC/MC	Temp	Well Observations
<b>See ART-2</b>	<b>pH</b>	<b>Field Log</b>	<b>°C</b>	<p><b>* ART-2 and ART-2A running concurrently, bottles labeled ART-2/2A 20231012.</b></p> <p><b>** measured 2x</b></p>
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>70° sunny</b>	

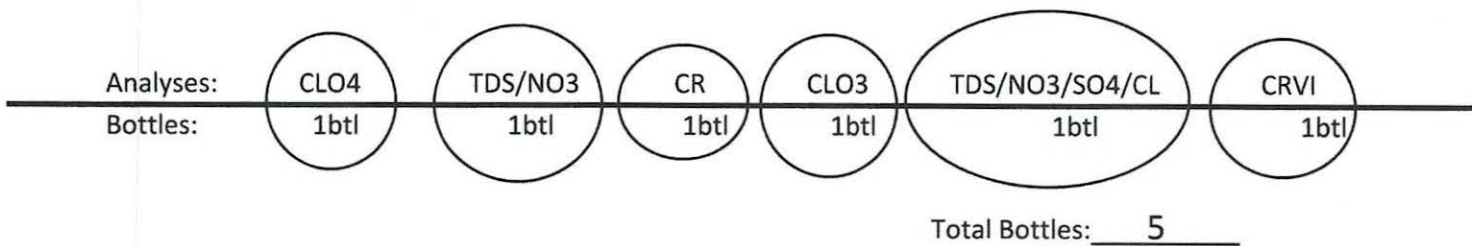
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>32.35*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<del><b>Field Measurements-</b></del>		Date:	Start Time:
Sample Time	pH	EC/MC	Temp
	pH	mS/Cm	°C
Sample Appearance:			<b>*manually verified</b>
Finish Time:			



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: **ART-3A**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **71° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **1019**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **46.13**  
 Manually Taken at Well  Taken at Control Panel

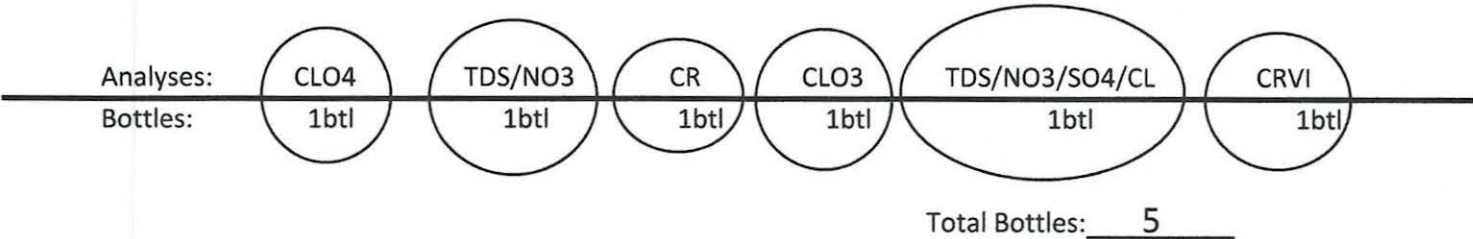
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **1037**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1038</b>	<b>7.23</b> <small>pH</small>	<b>11.37</b> <small>mS/Cm</small>	<b>24.8</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>1042</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-4**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **71° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
( 'NM' ) - No measurement taken, manually measured annually

Depth to Water(ft): **35.42\***  
 Manually Taken at Well  Taken at Control Panel

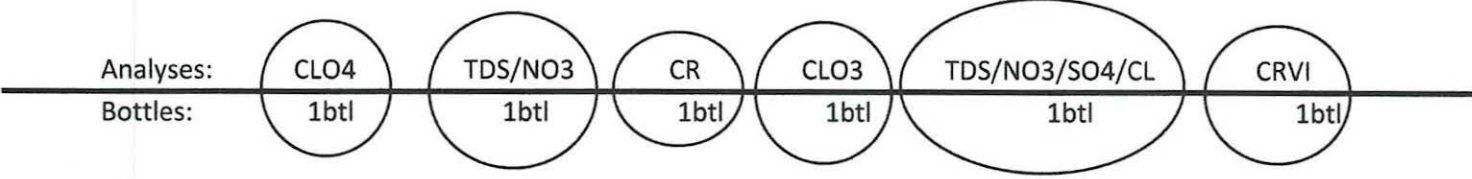
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **1042**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1043</b>	<b>7.55</b> pH	<b>7.36</b> mS/Cm	<b>24.8</b> °C	<b>*manually verified</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>1049</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

**ART-4 2023 10/12 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 PH: 7.55  
 EC: 7.37  
 C: 24.8

# WATER SAMPLING FIELD LOG

Well: **APT-4A**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **71° Sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **1021**

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **42.85 41.57\***  
 Manually Taken at Well  Taken at Control Panel

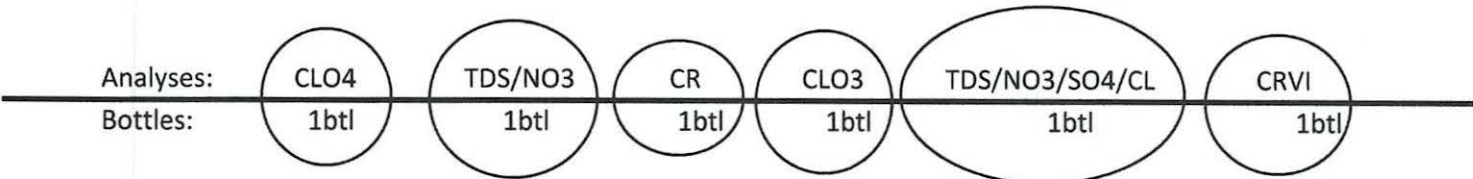
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~**Field Measurements-** Date: \_\_\_\_\_ Start Time: \_\_\_\_\_~~

Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	<b>*measured 2x</b>
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-7A**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **Sunny 71°**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **# 29.42**  
 Manually Taken at Well  Taken at Control Panel

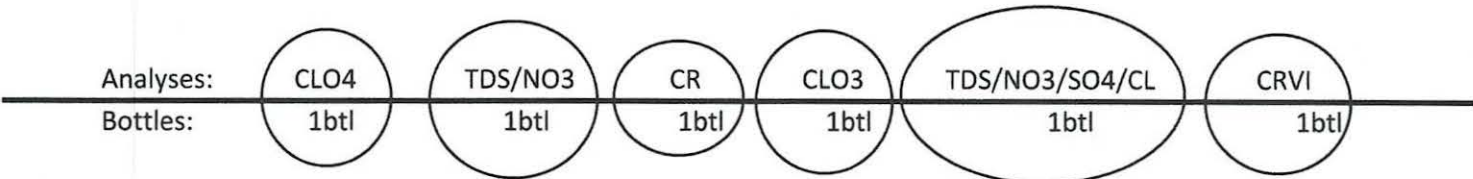
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~Field Measurements-~~ Date: \_\_\_\_\_ Start Time: \_\_\_\_\_

Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>ART-7B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 71°</b>	

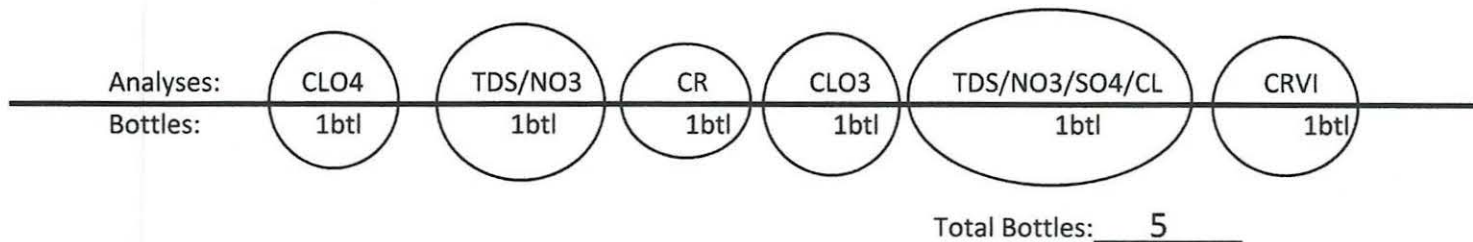
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0904</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.81*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/12/23</b>	Start Time: <b>1050</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>1051</b>	<b>7.43</b> <small>pH</small>	<b>9.50</b> <small>mS/Cm</small>	<b>24.4</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>1057</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

**ART-7B 2023 10/12 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 9.04  
 EC: 0.00  
 C: 23.7  
 Time: 1053

## WATER SAMPLING FIELD LOG

	Well: <b>ART-8</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° sunny</b>	

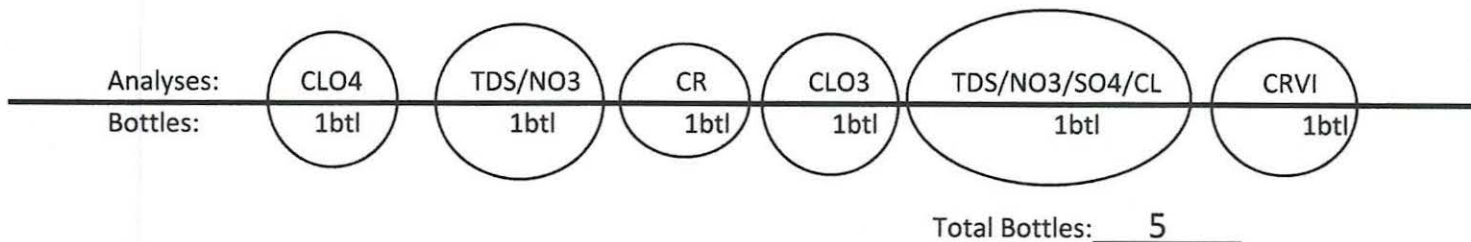
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>30.87*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<del><b>Field Measurements-</b></del>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations <b>*manually verified</b>
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-8A**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **Sunny 72°**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **1017**

Total Well Depth(ft): **NM**  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft): **42.13\***  
 Manually Taken at Well  Taken at Control Panel

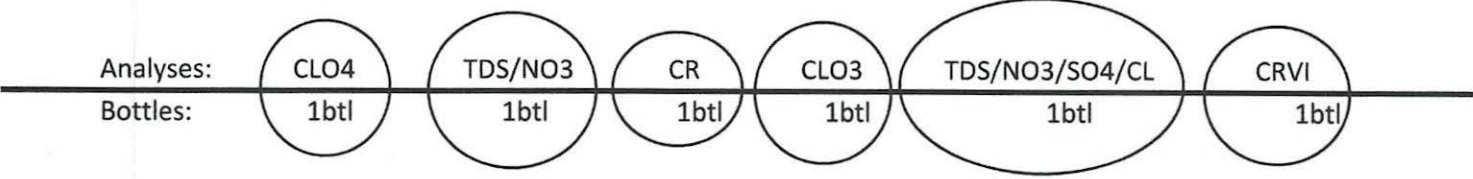
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **1057**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1058</b>	<b>7.21</b> <small>pH</small>	<b>12.40</b> <small>mS/Cm</small>	<b>25.1</b> <small>°C</small>	<b>* measured 2x</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>1102</b>				



Total Bottles: 5

DUP EC Reading	QC
<b>12.42</b> <small>mS/Cm</small>	<b>7.00</b> <small>pH</small>
<b>25.3</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: **ART-9**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **72° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0900**

Total Well Depth(ft): **NM**  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **32.15\***  
 Manually Taken at Well  Taken at Control Panel

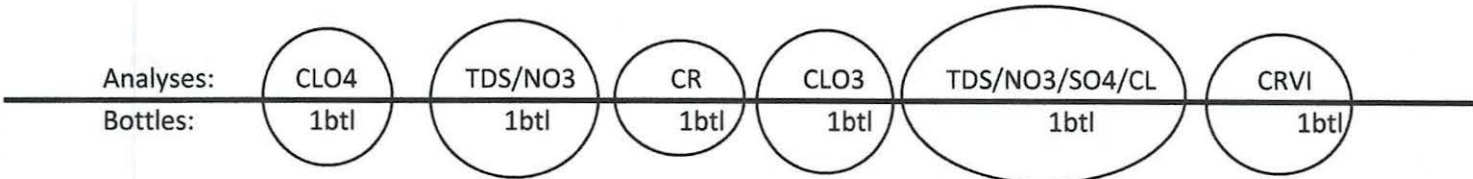
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **1102**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1103</b>	<b>7.49</b> <small>pH</small>	<b>8.25</b> <small>mS/Cm</small>	<b>24.7</b> <small>°C</small>	<b>*measured 2x</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>1106</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>PC-150</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>72° Sunny</b>	

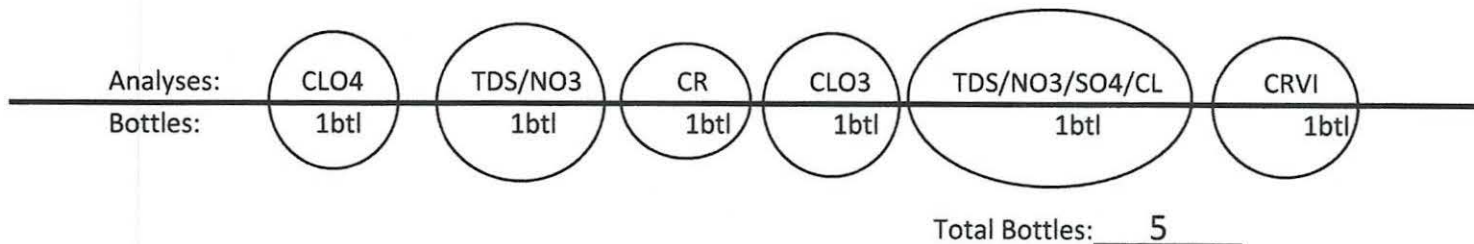
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>1023</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.75*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/12/23</b>	Start Time: <b>1106</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>1107</b>	<b>7.52</b> <small>pH</small>	<b>6.77</b> <small>mS/Cm</small>	<b>25.5</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>1111</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: **PC-99 R2/R3**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **Sunny 69°**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **9.35**  
 Manually Taken at Well  Taken at Control Panel

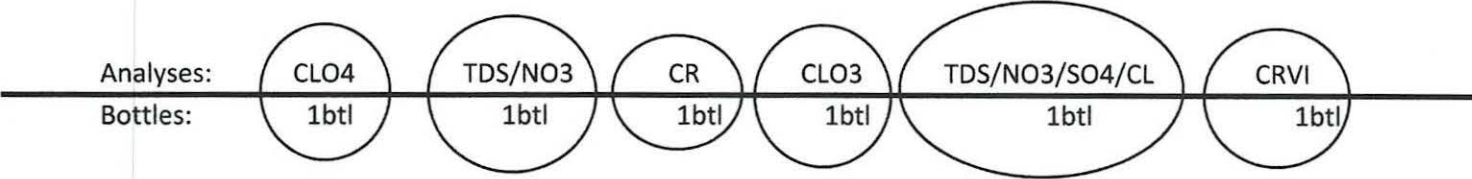
Height of Water Column(ft):

**Well Purge Required**

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **0919**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0920</b>	<b>7.64</b> <small>pH</small>	<b>4.34</b> <small>mS/Cm</small>	<b>21.4</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>0924</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **PC-115R**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **69° Sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **6.42\***  
 Manually Taken at Well  Taken at Control Panel

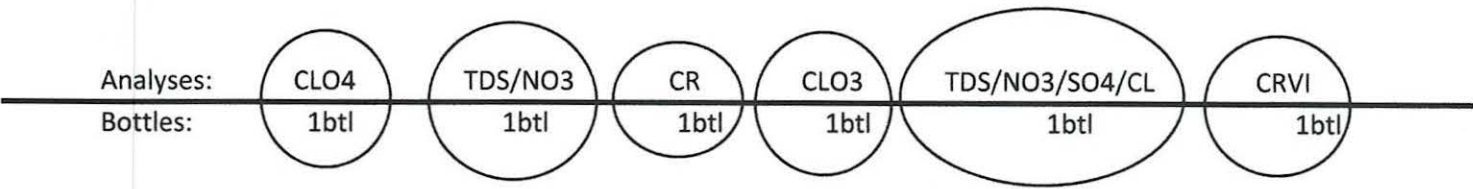
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **0924**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0925</b>	<b>7.47</b> <small>pH</small>	<b>3.77</b> <small>mS/Cm</small>	<b>21.6</b> <small>°C</small>	<b>*manually verified</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0929</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>PC-116R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>69° Sunny</b>	

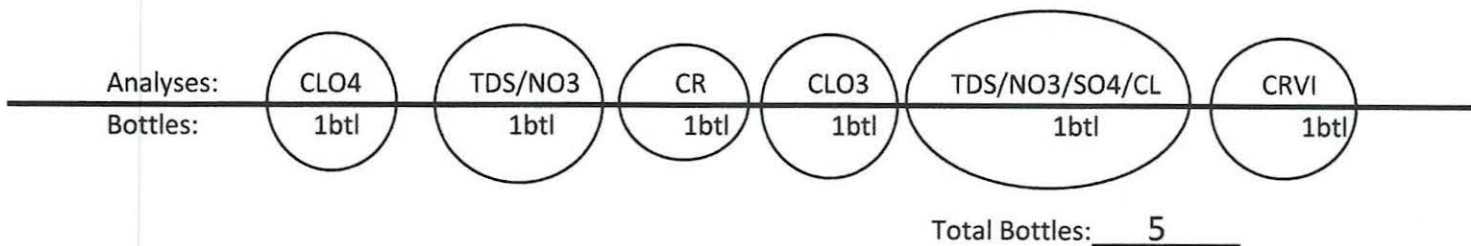
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>9.65*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/12/23</b>	Start Time: <b>0930</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0931</b>	<b>7.46</b> <small>pH</small>	<b>4.69</b> <small>mS/Cm</small>	<b>22.2</b> <small>°C</small>	<b>*manually verified</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0934</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **PC-117**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **Sunny 70°**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **13.62**  
 Manually Taken at Well  Taken at Control Panel

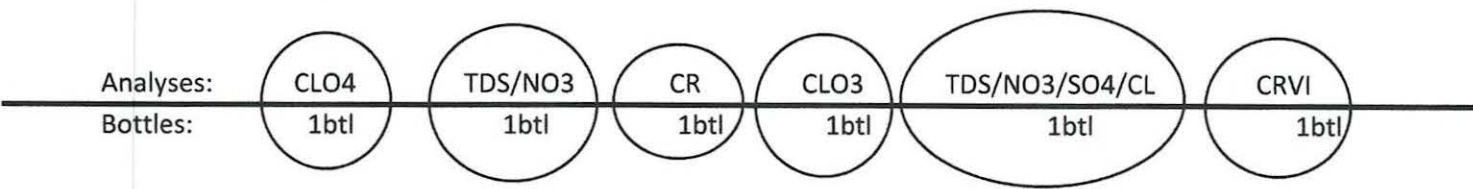
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **0934**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0935</b>	<b>7.43</b> <small>pH</small>	<b>4.37</b> <small>mS/Cm</small>	<b>21.5</b> <small>°C</small>	
Sample Appearance: <b>Clear</b>				
Finish Time: <b>0939</b>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>PC-118</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 70°</b>	

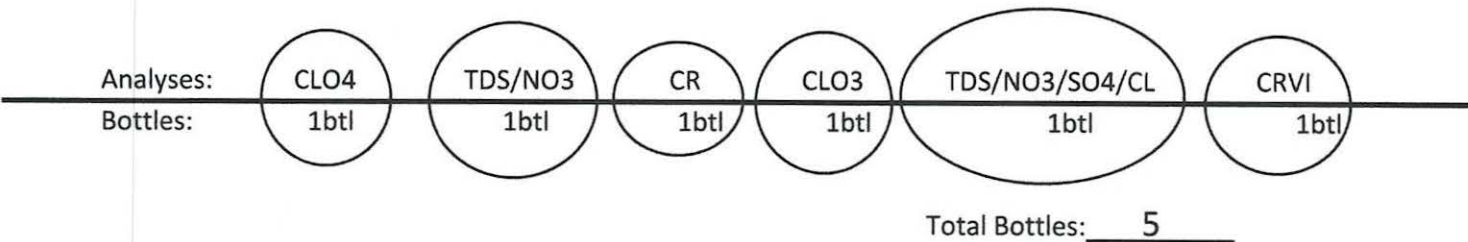
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>2.15</b>	
	<input type="checkbox"/> Manually Taken at Well	<input checked="" type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/12/23</b>	Start Time: <b>0939</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0940</b>	<b>7.53</b> <small>pH</small>	<b>3.69</b> <small>mS/Cm</small>	<b>21.2</b> <small>°C</small>			
Sample Appearance: <b>clear</b>						
Finish Time: <b>0943</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: **PC-119**

Project/Site: NERT Project - Henderson Nevada      Date(s): **10/12/23**

Sampling Team: **Emily McGuire**

Sampling Method:       Collected From Sample Port       Hand Bailed due to well Location

Weather Conditions:      **70° Sunny**

DTW ONLY

**Well Depth Information-**      Date: **10/12/23**      Time: **0630**

Total Well Depth(ft): **NM**  
('NM') - No measurement taken, manually measured annually)

Depth to Water(ft):      **-0.46\***  
 Manually Taken at Well       Taken at Control Panel

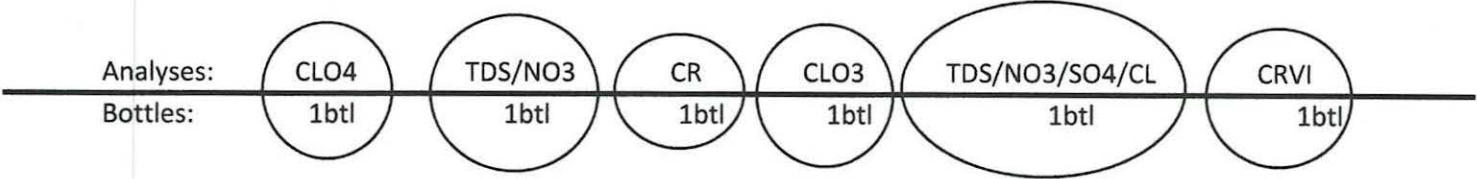
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-**      Date: **10/12/23**      Start Time: **0943**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0944</b>	<b>7.49</b> <small>pH</small>	<b>3.49</b> <small>mS/Cm</small>	<b>20.9</b> <small>°C</small>	<b>*water above casing in vault</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0949</b>				



Total Bottles: 5

DUP EC Reading	QC
<b>3.49</b> <small>mS/Cm</small>	<b>7.01</b> <small>pH</small>
<b>20.8</b> <small>°C</small>	

**PC-119 2023 10 12 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.49  
 EC: 3.50  
 C: 20.9



# WATER SAMPLING FIELD LOG

	Well: <b>PC-120</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>70° Sunny</b>	

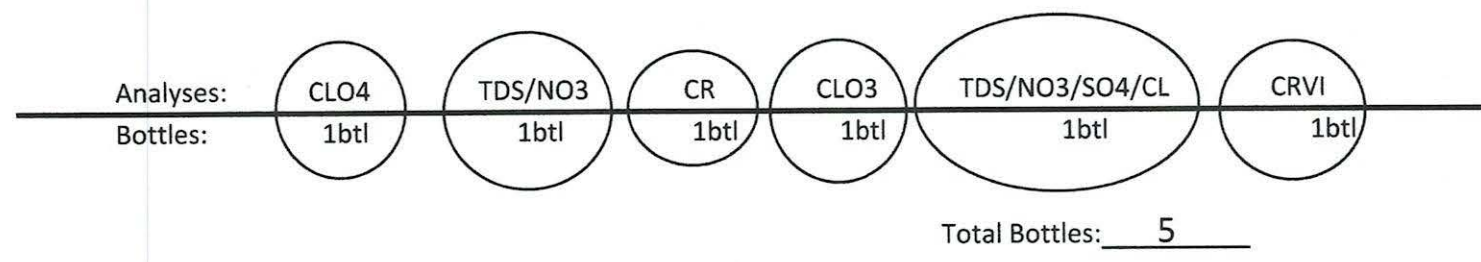
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/12/23</b>	Time: <b>0630</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>-1.60*</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/12/23</b>	Start Time: <b>0949</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0950</b>	<b>7.47</b> <small>pH</small>	<b>3.36</b> <small>mS/Cm</small>	<b>20.5</b> <small>°C</small>	<b>*water above casing in vault</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0955</b>					



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

**PC-120 2023 10/12 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 9.04  
 Time: 0953      EC: 0.06  
                          C: 23.7



# WATER SAMPLING FIELD LOG

Well: **PC-121**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **70° Sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: **0630**

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **-0.49\***  
 Manually Taken at Well  Taken at Control Panel

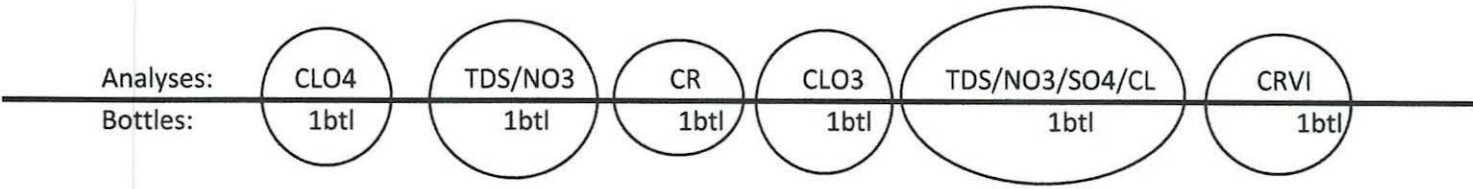
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **0955**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0956</b>	<b>7.53</b> <small>pH</small>	<b>2.92</b> <small>mS/Cm</small>	<b>20.5</b> <small>°C</small>	<b>*water above casing in vault</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>1000</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: **PC-133**

Date(s): **10/12/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **70° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/12/23** Time: ~~0630~~ **0914**

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **23.08**  
 Manually Taken at Well  Taken at Control Panel

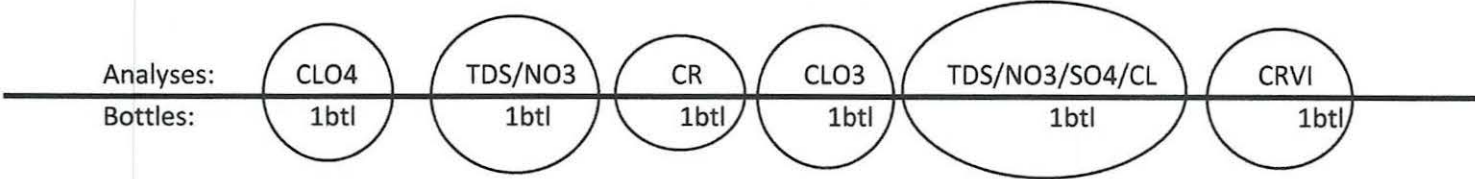
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/12/23** Start Time: **1000**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1001</b>	<b>7.50</b> <small>pH</small>	<b>3.64</b> <small>mS/Cm</small>	<b>21.5</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>1004</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>81-1</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/5/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 69°</b>	

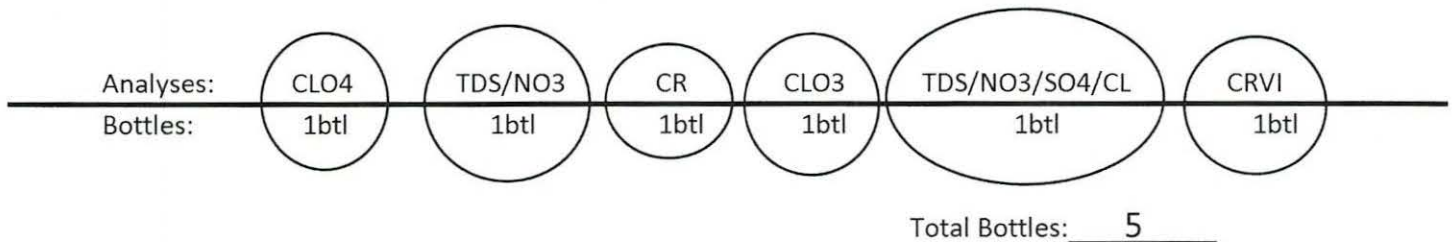
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/5/23</b>	Time: <b>0802</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.73</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>10/5/23</b>	Start Time: <b>0806</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0807</b>	<b>7.23</b>	<b>5.17<sup>µm</sup></b> <b>5.04 mS/Cm</b>	<b>25.5</b>	<b>2.09 gpm 222172 20 psi</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0811</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>E1-2</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/5/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 69°</b>	

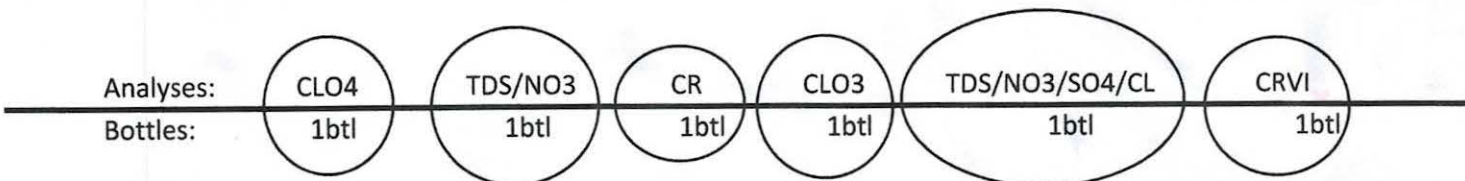
DTW ONLY

Well Depth Information-	Date: <b>10/5/23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.46</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-		Date: <b>10/5/23</b>	Start Time: <b>0815</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0816</b>	<b>7.17</b> <small>pH</small>	<b>6.73</b> <small>mS/Cm</small>	<b>26.2</b> <small>°C</small>	<b>10 psi</b> <b>0.5 gpm</b> <b>360583</b>
Sample Appearance: <b>Clear</b>				
Finish Time: <b>0822</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

**E1-2 2023 10 05 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.17  
 EC: 6.74  
 C: 26.2

# WATER SAMPLING FIELD LOG

	Well: <b>21-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/5/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 69°</b>	

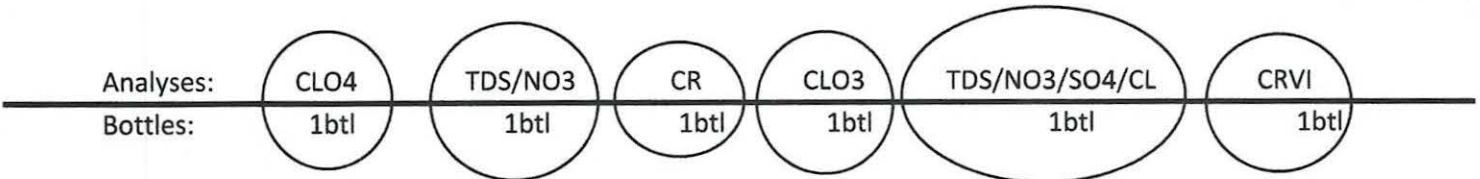
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/5/23</b>	Time: <b>0757</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>40.55</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/5/23</b>	Start Time: <b>0827</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0828</b>	<b>7.27</b> <small>pH</small>	<b>6.10</b> <small>mS/Cm</small>	<b>27.4</b> <small>°C</small>	<b>0.84gpm 292134 24psi</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0834</b>					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

**21-3 2023 10 05 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 7.84  
 EC: 0.03  
 C: 24.1  
 Time: 0831



# WATER SAMPLING FIELD LOG

	Well: <b>E2-1</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/5/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>69° sunny</b>	

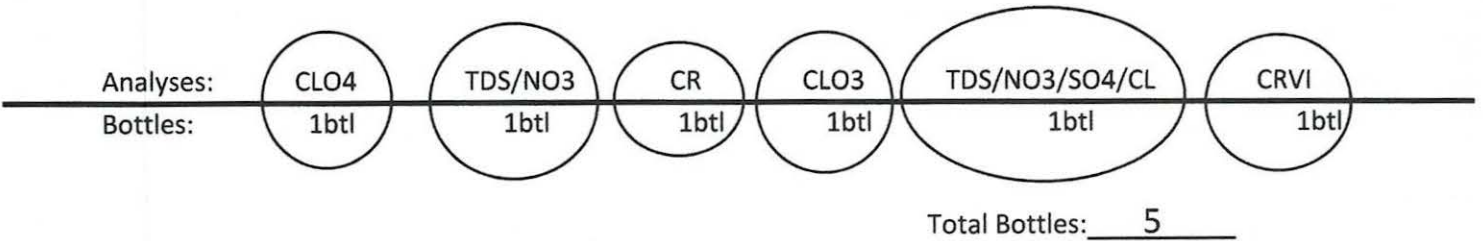
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/5/23</b>	Time: <b>0840</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>38.33</b>	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/5/23</b>	Start Time: <b>0840</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0842</b>	<b>7.53</b> <small>pH</small>	<b>3.76</b> <small>mS/Cm</small>	<b>26.0</b> <small>°C</small>	<b>0.58 gpm 90142.3 22 psi ↑ 0.70 gpm</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0848</b>					



DUP EC Reading	QC
<b>3.75</b> <small>mS/Cm</small>	<b>6.99</b> <small>pH</small>
<b>26.2</b> <small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>EZ-2</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/5/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>70° Sunny</b>	

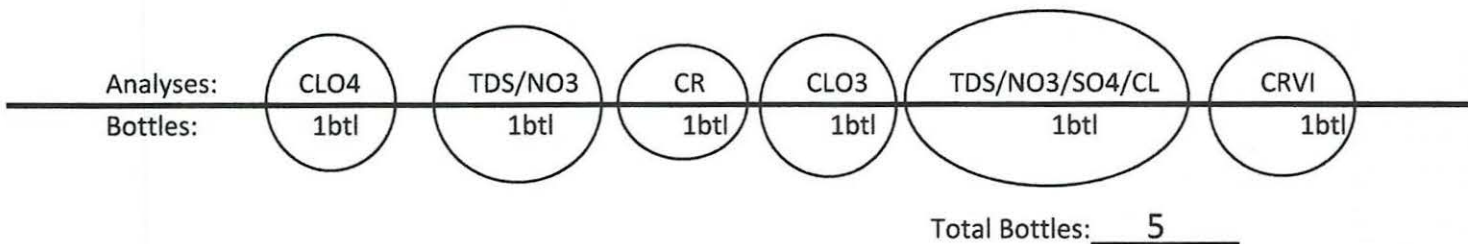
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/5/23</b>	Time: <b>0850</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>39.80</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>10/5/23</b>	Start Time: <b>0850</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0852</b>	<b>7.45</b> <small>pH</small>	<b>4.32</b> <small>mS/Cm</small>	<b>25.5</b> <small>°C</small>	<b>0.96 gpm 21296 20psi ↑1.14</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0858</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>E2-9</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>10/5/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>70° sunny</b>	

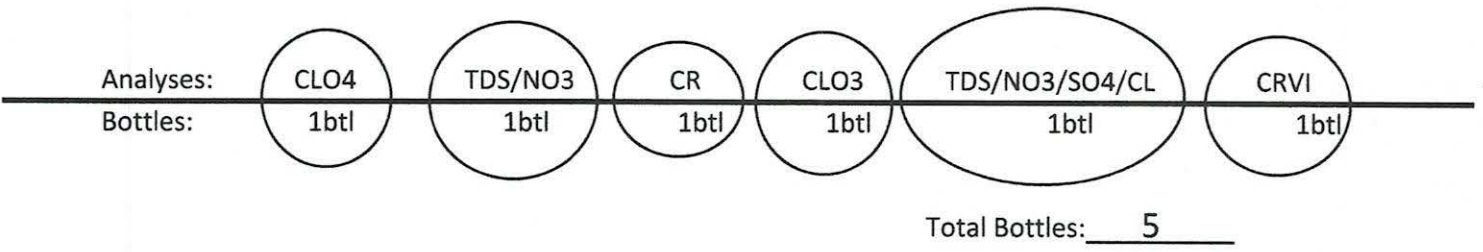
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>10/5/24</b>	Time: <b>0859</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>41.03</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>10/5/24</b>	Start Time: <b>0859</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0901</b>	<b>7.37</b> <small>pH</small>	<b>5.58</b> <small>mS/Cm</small>	<b>27.2</b> <small>°C</small>	<b>1.22gpm 424789 24psi</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0907</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>ΕΖ-4</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>10/5/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>70° sunny</u>	

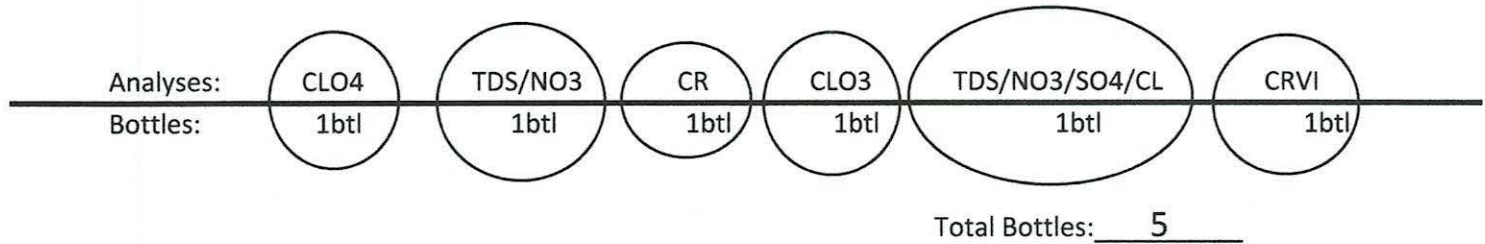
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>10/5/23</u>	Time: <u>0910</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>40.59</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>10/5/23</u>	Start Time: <u>0910</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0912</u>	<u>7.40</u> <small>pH</small>	<u>5.92</u> <small>mS/Cm</small>	<u>26.2</u> <small>°C</small>	<u>1.08 gpm 141843 20psi</u>	
Sample Appearance: <u>clear</u>					
Finish Time: <u>0916</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: **EZ-5**

Project/Site: NERT Project - Henderson Nevada

Date(s): **10/5/23**

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **70° sunny**

DTW ONLY

**Well Depth Information-** Date: **10/5/23** Time: **0919**

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): **48.43**  
 Manually Taken at Well  Taken at Control Panel

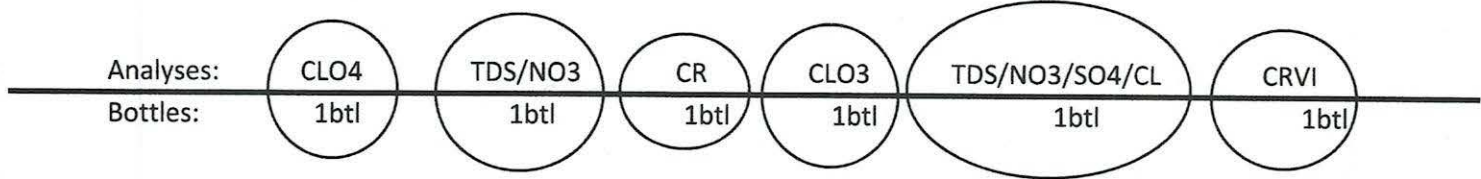
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **10/5/23** Start Time: **0919**

Sample Time	pH	EC/MC	Temp	Well Observations
0921	6.98 <small>pH</small>	6.39 <small>mS/Cm</small>	27.8 <small>°C</small>	.44 gpm 854126
Sample Appearance: <b>clear</b>				
Finish Time: <b>0925</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	






## DAILY SAMPLING RIG INSPECTION SHEET

Date: 10/5/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0615
Wells to be sampled today: <del>WF</del> APS		
Dangers and hazards with wells to be sampled: Hex/Vaults		
Name: Emily McGuire	Signature: 	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0610
Items To Be Checked	Issues Found	N/A <input type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0625
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts	No vehicle used	
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 10/5/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0626 gm
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.2	
Changed Buffers		Yes <input checked="" type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0630 gm
Calibration Value	7.00	6.01	
Buffer Temp	25.1	25.1	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
22-1	3.76	26.0	3.75	26.2

QC's
6.99
Closing QC
7.00

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: 





DAILY MAINTENANCE AND CALIBRATION LOG

Date: 10/10/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0635 EM
Temp Comp Value	25	
Calibration Value	1292	
Standard Temp	25.2	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0638 EM
Calibration Value	7.01	5.99	
Buffer Temp	25.4	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-L	5.97	28.8	5.95	28.7
1-X	8.31	28.0	8.29	28.1
1-U	9.53	28.5	9.54	28.5

QC's
6.98
6.98
6.99
Closing QC
6.98

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: *J. Mary*



## DAILY SAMPLING RIG INSPECTION SHEET

Date: 10/12/23 Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: <u>0641</u>
Wells to be sampled today: <u>IWF</u>		
Dangers and hazards with wells to be sampled: <u>Hex</u>		
Name: <u>Emily McGuire</u>	Signature: <u>[Signature]</u>	
Name: <u>Emily McGuire</u>	Signature: <u>[Signature]</u>	

<b>Sampling Equipment Inspection-</b>		Time: <u>0643</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <u>0645</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		







## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 10/12/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0633 gm
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.2	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0635 gm
Calibration Value	7.01	6.00	
Buffer Temp	25.2	25.2	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-K	6.84	23.7	6.84	23.6
PC-119	3.49	20.9	3.49	20.8
ART-8A	12.40	25.1	12.42	25.3

QC's
7.00
7.01
7.00
Closing QC
6.99

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: J. McJ.



### DAILY SAMPLING RIG INSPECTION SHEET

Date: 10/12/23

Completed By: Emily McQuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0638
Wells to be sampled today: IWF/AWF/SWF		
Dangers and hazards with wells to be sampled: Hex/driving/vaults		
Name: Emily McQuire	Signature: E. McQuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0640
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0643
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		

# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie and Chris Stubbs, Ramboll

**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, John Crowther, Jon Hunt, Emeryville Lab Data, Ramboll  
Dana Grady, Tetra Tech

**From:** Jesse Bunkers and Dylan Begley, Tetra Tech

**Date:** October 20, 2023

**Subject:** October 2023 Monthly Las Vegas Wash Surface Water Sampling  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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## MONTHLY SURFACE WATER SAMPLING ACTIVITIES

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the October 2023 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The 10 surface water sample locations described in the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3*, dated December 2022, are shown on **Figure 1**. Tetra Tech visited the 10 sample locations and collected 28 independent samples from 9 sample locations within the Las Vegas Wash (the Wash) on October 3 and 4, 2023, as described herein. Sample collection in the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximated mid-water depth using the discrete hand-sample technique described in the SAP.

Samples were stored in coolers at 4 degrees Celsius and transferred under chain-of-custody documentation to Eurofins Environment Testing Southwest (Eurofins) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids (TDS) using EPA Methods 314.0, 300.1B, and SM2540C, respectively. Analysis of TDS is not included in the SAP; however, February 9, 2023, discussions with Ramboll identified that monthly surface water samples should be analyzed for TDS and the SAP tables will be revised to reflect this addition. The Eurofins Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the October 2023 sampling event are as follows:

- Field personnel were not able to sample the designated location for LVW4.2-4 due to encroachment of bank vegetation that precluded access to the designated location. The sample was collected as close as possible to the original sample location, approximately 11 feet south of the original sample location and recorded with a handheld GPS at coordinates: 36.09506° N, -114.95477° E.
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.
- There was no flow at sample locations C1-W and C1-E due to construction of a golf course water hazard upstream of the sample location; therefore, no samples were collected. It is anticipated that once construction is complete, flow will resume in the C1 channel.

Surface water sampling logs are provided as Attachment A. Field investigation daily logs and the calibration certification form are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.



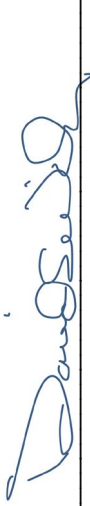
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## CERTIFICATION

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I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the October 2023 Monthly Las Vegas Wash Surface Water Sampling Summary.



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

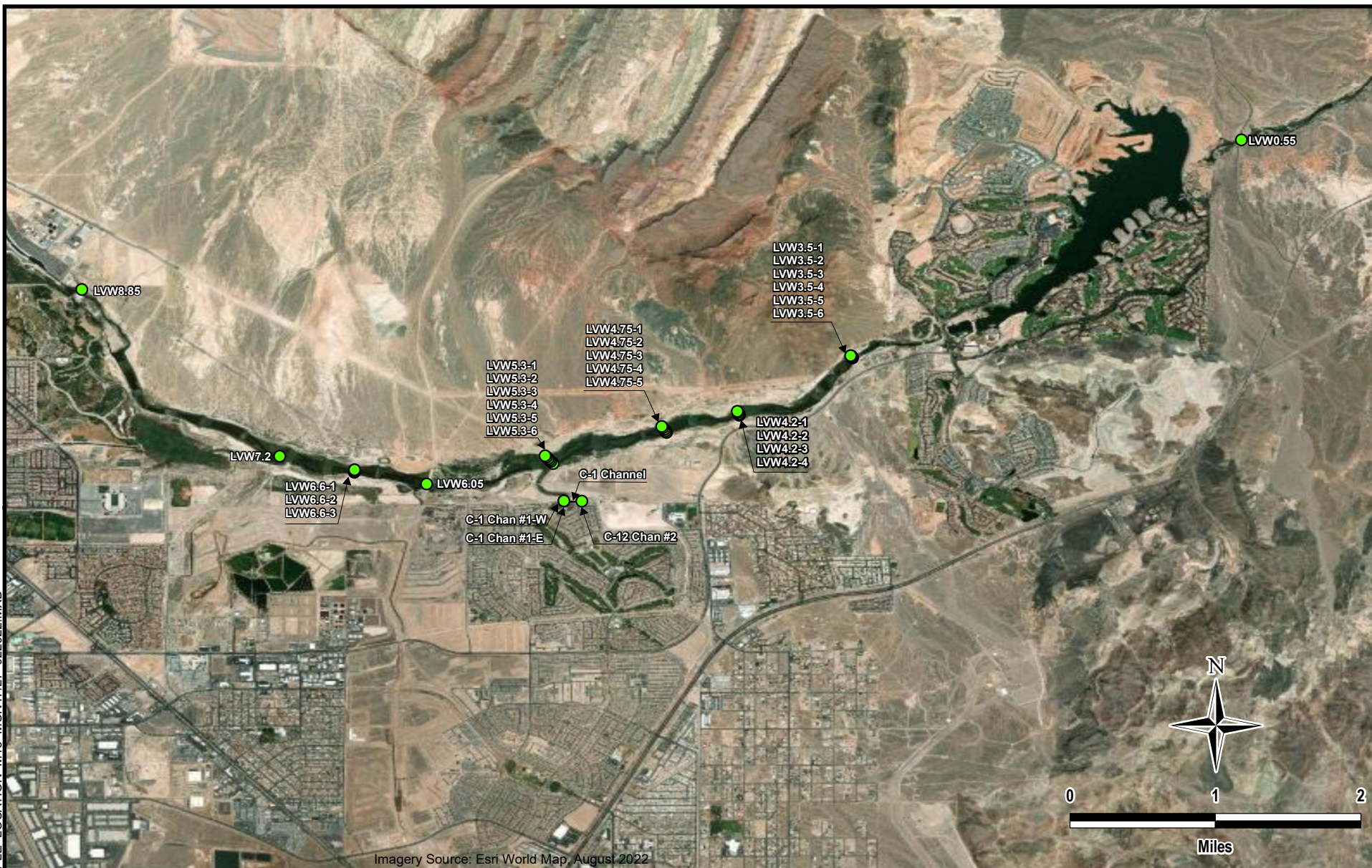
October 20, 2023

Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

**Figure**

D:\INERTM15\MXD\SAMPLE LOCATION M15 MONTHLY 022022.MXD



**Legend**

- Monthly Sample Locations

**Tt TETRA TECH**

www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH MONTHLY SAMPLING  
HENDERSON, NEVADA

**LAS VEGAS WASH SAMPLE POINT LOCATIONS**

Project No.: 117-7502023

Date: FEBRUARY 13, 2023

Designed By: AAM

Figure No.  
**1**



# **Attachment A**

## **Surface Water Sampling Logs**



**SURFACE WATER SAMPLING LOG**

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 10/3/2023
---------------------------------------	----------------------------	--------------	-----------------

Field Samplers: J. Bunkers, J. Heintz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
---------------------------------------	--------------------------------	-----------------------------------

Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
8:45	LVW 0.55	3.4	1.7	23.4	7.35	1.899	8.18	180.3	7.3	Clear	None
9:30	LVW 3.5-1	2.6	1.3	23.3	7.94	0.509	7.94	166.9	8.0	Clear	None
9:30	LVW 3.5-2	2.6	1.3	23.7	7.87	1.247	7.96	168.0	4.4	Clear	None
9:30	LVW 3.5-3	2.4	1.2	23.2	7.88	0.538	8.10	168.6	8.1	Clear	None
9:30	LVW 3.5-4	2.0	1.0	23.5	7.96	0.506	8.14	168.4	6.9	Clear	None
9:30	LVW 3.5-5	2.4	1.2	22.5	7.89	0.428	8.29	168.7	7.5	Clear	None
9:30	LVW 3.5-6	3.6	1.8	23.3	7.92	2.089	8.12	168.4	7.7	Clear	None
10:15	LVW 4.2-1	3.6	1.8	23.9	8.03	2.139	7.64	176.9	11.2	Clear	None
10:15	LVW 4.2-2	3.2	1.6	23.5	7.99	2.096	7.80	177.0	8.2	Clear	None
10:15	LVW 4.2-3	7.2	3.6	23.2	7.97	2.112	7.88	177.2	8.7	Clear	None
10:15	LVW 4.2-4	2.8	1.4	23.3	7.89	2.057	7.64	177.6	7.4	Clear	None
11:00	LVW 4.75-1	1.6	0.8	24.1	8.14	1.135	7.92	178.5	11.7	Clear	None
11:00	LVW 4.75-2	3.2	1.6	23.6	8.16	2.129	8.02	178.3	10.5	Clear	None
11:00	LVW 4.75-3	2.8	1.4	23.9	8.09	2.096	8.12	176.7	9.8	Clear	None
11:00	LVW 4.75-4	2.6	1.3	24.3	8.06	2.109	8.12	176.7	8.4	Clear	None
11:00	LVW 4.75-5	2.8	1.4	24.4	8.01	2.127	8.09	178.6	10.6	Clear	None
11:45	LVW 5.3-1	1.4	0.7	26.2	8.40	2.192	7.80	180.9	6.4	Clear	None
11:45	LVW 5.3-2	7.0	3.5	25.6	8.29	2.190	7.82	172.1	6.2	Clear	None
11:45	LVW 5.3-3	1.6	0.8	25.5	8.17	2.180	7.87	172.4	5.5	Clear	None
11:45	LVW 5.3-4	1.6	0.8	25.2	8.04	2.146	7.92	173.4	5.2	Clear	None
11:45	LVW 5.3-5	2.2	1.1	25.4	8.03	2.156	7.91	173.6	6.8	Clear	None
11:45	LVW 5.3-6	1.6	0.8	26.1	7.97	2.169	7.78	173.8	7.7	Clear	None

QA/QC Samples/ID: LVW0.55-1.7-20231003-FD	QA/QC Samples/ID: LVW0.55-20231003-FB	QA/QC Samples/ID:
QA/QC Sample Time: 8:45	QA/QC Sample Time: 8:45	QA/QC Sample Time:

<b>C1-E</b>	Flow (L/s): _____	<b>C1-W</b>	Flow (L/s): _____	<b>C-12</b>	Flow (L/s): _____
	Width (ft): _____ Depth (ft): _____		Width (ft): _____ Depth (ft): _____		Width (ft): _____ Depth (ft): _____

**Observations/Comments: C-12, C1-E, C1-W Dry / Not Sampled**

## SURFACE WATER SAMPLING LOG

Task Name: LVW Surface Water Sampling			Task Manager: Dylan Begley			Task No: M15		Date: 10/4/2023			
Field Samplers: J. Bunkers, J. Heintz			Sampling Method: Dipper Bottle			Equipment Decon. Method: DI Rinse					
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
8:00	LVW 6.05	1.6	0.8	23.1	6.02	1.884	7.89	233.4	7.4	Clear	None
8:45	LVW 6.6-1	2.6	1.3	23.4	7.72	2.053	7.07	146.7	7.1	Clear	None
8:45	LVW 6.6-2	6.8	3.4	22.9	7.83	2.080	7.73	145.9	6.1	Clear	None
8:45	LVW 6.6-3	2.2	1.1	23.4	7.85	1.985	7.84	144.0	7.8	Clear	None
9:15	LVW 7.2	2.4	1.2	24.6	7.88	1.521	7.98	143.5	10.1	Clear	None
10:00	LVW 8.85	1.6	0.8	26.3	7.51	1.845	7.41	135.6	2.6	Clear	None
QA/QC Samples/ID: LVW6.05-0.8-20231004-FD			QA/QC Samples/ID: LVW6.05-20231004-FB				QA/QC Samples/ID: LVW7.2-1.2-20231004-FD				
QA/QC Sample Time: 8:00			QA/QC Sample Time: 8:00				QA/QC Sample Time: 9:15				
QA/QC Samples/ID: LVW7.2-20231004-FB			QA/QC Samples/ID:				QA/QC Samples/ID:				
QA/QC Sample Time: 9:15			QA/QC Sample Time:				QA/QC Sample Time:				
<b>C1-E</b>	Flow (L/s): _____		<b>C1-W</b>	Flow (L/s): _____		<b>C-12</b>	Flow (L/s): _____				
	Width (ft): _____	Depth (ft): _____		Width (ft): _____	Depth (ft): _____		Width (ft): _____	Depth (ft): _____			
<b>Observations/Comments: C-12, C1-E, C1-W Dry / Not Sampled</b>											



**Attachment B**  
**Field Investigation Daily Logs**



Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Date: 10/3/23
Field Personnel: JB, JH		Task No: M15
Location: Las Vegas Wash	Tablet #: 1	Reported by: J. Bunkers

Weather Conditions: 76°F Sunny, Calm  
 Total Vehicle Mileage: 25  
 Task Visitors / Subcontractors: None  
 Matters of Safety:  
 Insects / snakes  
 Problems / Concerns and Corrective Actions Taken:  
 None

Time	Activities
0700	Arrive at T4 office, safety meeting, gather supplies, make to field
0815	Arrive at LVW0.55 on Northshore Rd, Lake Mead
0845	Collect samples LVW0.55 + FD + FB, make to LVW3.5
0930	Collect samples LVW3.5-1 thru LVW3.5-6, make to LVW4.2
1015	Collect samples LVW4.2-1 thru LVW4.2-4 using float tube, make to LVW4.75, LVW4.2-4 loc modified due to veg encroaching to: 36.09506°N, -114.95477°E
1100	Collect samples LVW4.75-1 thru LVW4.75-5, make to LVW5.3
1145	Collect samples LVW5.3-1 thru LVW5.3-6, make to C1 channel
1300	No flow at C12. No flow at C1-E or C1-W due to construction of a new water hazard on the golf course upstream.
1400	Arrive at office, store samples and equipment, calibrate YSI
1500	Done for day

<input type="checkbox"/> LVW8.85: 36.107231, -115.019994	<input checked="" type="checkbox"/> LVW5.3-6: 36.090660, -114.973903	<input checked="" type="checkbox"/> LVW4.2-2: 36.094817, -114.954612
<input type="checkbox"/> LVW7.2: 36.090604, -115.000302	<input checked="" type="checkbox"/> C1-E: 36.086147, -114.972022 No Flow	<input checked="" type="checkbox"/> LVW4.2-3: 36.094978, -114.954716
<input type="checkbox"/> LVW6.6-1: 36.089005, -114.992888	<input checked="" type="checkbox"/> C1-W: 36.086147, -114.972022 No Flow	<input checked="" type="checkbox"/> LVW4.2-4: 36.095108, -114.954806 Modified
<input type="checkbox"/> LVW6.6-2: 36.089155, -114.992828	<input checked="" type="checkbox"/> C12: 36.086125, -114.970255 No Flow	<input checked="" type="checkbox"/> LVW3.5-1: 36.100422, -114.943298
<input type="checkbox"/> LVW6.6-3: 36.089265, -114.992858	<input checked="" type="checkbox"/> LVW4.75-1: 36.092979, -114.961810	<input checked="" type="checkbox"/> LVW3.5-2: 36.100459, -114.943329
<input type="checkbox"/> LVW6.05: 36.087849, -114.985682	<input checked="" type="checkbox"/> LVW4.75-2: 36.093130, -114.961928	<input checked="" type="checkbox"/> LVW3.5-3: 36.100548, -114.943390
<input checked="" type="checkbox"/> LVW5.3-1: 36.089867, -114.973112	<input checked="" type="checkbox"/> LVW4.75-3: 36.093277, -114.962051	<input checked="" type="checkbox"/> LVW3.5-4: 36.100585, -114.943405
<input checked="" type="checkbox"/> LVW5.3-2: 36.090072, -114.973322	<input checked="" type="checkbox"/> LVW4.75-4: 36.093431, -114.962174	<input checked="" type="checkbox"/> LVW3.5-5: 36.100606, -114.943451
<input checked="" type="checkbox"/> LVW5.3-3: 36.090218, -114.973467	<input checked="" type="checkbox"/> LVW4.75-5: 36.093580, -114.962301	<input checked="" type="checkbox"/> LVW3.5-6: 36.100645, -114.943493
<input checked="" type="checkbox"/> LVW5.3-4: 36.090367, -114.973612	<input checked="" type="checkbox"/> LVW4.2-1: 36.094695, -114.954570	<input checked="" type="checkbox"/> LVW0.55: 36.122158, -114.904631
<input checked="" type="checkbox"/> LVW5.3-5: 36.090513, -114.973758		

Prepared by: Jesse Bunkers Signature: Date: 10/3/23



Task Name: LVW Surface Water Sampling

Task Manager: Dylan Begley

Date: 10/4/23

Field Personnel: JB, JH

Task No: M15

Location: Las Vegas Wash

Tablet #: 1

Reported by: Jesse Bunkers

Weather Conditions: 80°F Sunny, Calm

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: None

Matters of Safety:

Insect stings, slips/trips/falls

Problems / Concerns and Corrective Actions Taken:

None

Time	Activities
0700	Arrive at office, safety meeting, gather supplies, make to field
0730	Arrive at C-1 channel, no flow
0800	Collect samples LVW6.05 + FD + FB
0845	Collect samples LVW6.6-1, -2, & -3, make to LVW7.2
0915	Collect samples LVW7.2 + FD
1000	Collect sample LVW8.85
1045	Arrive at office, store equipment, pack samples, upload field forms, pack sampling equipment, start report
1300	Hand off samples to ETA lab courier
1500	Done for day

<input checked="" type="checkbox"/> LVW8.85: 36.107231, -115.019994	<input type="checkbox"/> LVW5.3-6: 36.090660, -114.973903	<input type="checkbox"/> LVW4.2-2: 36.094817, -114.954612
<input checked="" type="checkbox"/> LVW7.2: 36.090604, -115.000302	<input checked="" type="checkbox"/> C1-E: 36.086147, -114.972022 No Flow	<input type="checkbox"/> LVW4.2-3: 36.094978, -114.954716
<input checked="" type="checkbox"/> LVW6.6-1: 36.089005, -114.992888	<input checked="" type="checkbox"/> C1-W: 36.086147, -114.972022 No Flow	<input type="checkbox"/> LVW4.2-4: 36.095108, -114.954806
<input checked="" type="checkbox"/> LVW6.6-2: 36.089155, -114.992828	<input checked="" type="checkbox"/> C12: 36.086125, -114.970255 No Flow	<input type="checkbox"/> LVW3.5-1: 36.100422, -114.943298
<input checked="" type="checkbox"/> LVW6.6-3: 36.089265, -114.992858	<input type="checkbox"/> LVW4.75-1: 36.092979, -114.961810	<input type="checkbox"/> LVW3.5-2: 36.100459, -114.943329
<input checked="" type="checkbox"/> LVW6.05: 36.087849, -114.985682	<input type="checkbox"/> LVW4.75-2: 36.093130, -114.961928	<input type="checkbox"/> LVW3.5-3: 36.100548, -114.943390
<input type="checkbox"/> LVW5.3-1: 36.089867, -114.973112	<input type="checkbox"/> LVW4.75-3: 36.093277, -114.962051	<input type="checkbox"/> LVW3.5-4: 36.100585, -114.943405
<input type="checkbox"/> LVW5.3-2: 36.090072, -114.973322	<input type="checkbox"/> LVW4.75-4: 36.093431, -114.962174	<input type="checkbox"/> LVW3.5-5: 36.100606, -114.943451
<input type="checkbox"/> LVW5.3-3: 36.090218, -114.973467	<input type="checkbox"/> LVW4.75-5: 36.093580, -114.962301	<input type="checkbox"/> LVW3.5-6: 36.100645, -114.943493
<input type="checkbox"/> LVW5.3-4: 36.090367, -114.973612	<input type="checkbox"/> LVW4.2-1: 36.094695, -114.954570	<input type="checkbox"/> LVW0.55: 36.122158, -114.904631
<input type="checkbox"/> LVW5.3-5: 36.090513, -114.973758		

Prepared by: Jesse Bunkers

Signature: [Signature]

Date: 10/4/23



# **Attachment C Calibration Logs**

**EQUIPCO****RENTALS****YSI ProDSS RENTAL  
CALIBRATION CERTIFICATE**SERVICE TECHNICIAN: *FM*DATE: *9/29/23*

RENTAL CUSTOMER:

INSTRUMENT INFORMATIONRENTAL I.D. NUMBER: YSI-ProDSS. *H2*SERIAL NUMBER: *195101003*CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	<input checked="" type="checkbox"/>	<i>079929</i>
2. pH ZERO	pH 7	<input checked="" type="checkbox"/>	<i>086097</i>
pH SLOPE	pH 4	<input checked="" type="checkbox"/>	<i>086096</i>
pH SLOPE	pH 10	<input checked="" type="checkbox"/>	<i>082797</i>
3. DISSOLVED OXYGEN	Air Calibration	<input checked="" type="checkbox"/>	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfit)	<input checked="" type="checkbox"/>	<i>N/A</i>
4. TURBIDITY ZERO	0.0 NTU's	<input checked="" type="checkbox"/>	N/A
TURBIDITY SPAN	100 NTU's	<input checked="" type="checkbox"/>	<i>9/29/23</i>
5. REDOX (ORP)	231mV (YSI Zobell solution)	<input checked="" type="checkbox"/>	<i>120522</i>





# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie, Ramboll

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**Cc:** Steve Clough; Nevada Environmental Response Trust  
Mia Sosa, Jon Hunt, Greg Kinsall, Emeryville Lab Data; Ramboll  
Dana Grady, Tetra Tech

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**From:** Jesse Bunkers and Katelyn Goen

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**Date:** December 29, 2023

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**Subject:** **November 2023 Fourth Quarter/Semi-Annual Groundwater Monitoring Summary  
Nevada Environmental Response Trust Site  
Henderson, Nevada**

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## 2023 FOURTH QUARTER/SEMI-ANNUAL GROUNDWATER MONITORING SUMMARY

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary of the 2023 Fourth Quarter/Semi-Annual Groundwater Monitoring event for the NERT Site. This monitoring event included depth-to-water measurements, transducer data downloads, and low-flow groundwater sampling performed in accordance with the following documents:

- *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan, Revision 3 (SAP)* (Ramboll US Consulting, Inc. [Ramboll], 2022).
- *Field Guidance Document (FGD) No. 008 – Groundwater and Free Product Level Measurements* (Ramboll US Consulting, Inc. [Ramboll], 2020).
- *FGD No. 005 – Low-Flow Groundwater Sampling* (Ramboll US Consulting, Inc. [Ramboll], 2020).

Details regarding the depth-to-groundwater measurements, transducer data downloads, and low-flow groundwater sampling are described below.

### Depth-to-Water Measurements

Figure 1 identifies the 123 monitoring well locations requiring depth-to-water measurements as part of the Fourth Quarter/Semi-Annual event detailed on Table 5 (Semi-Annual Monitoring Program Summary) of the SAP. Depth-to-water measurements were collected from 105 of the 123 wells on November 6, 2023. Depth-to-water measurements were not collected from 18 wells for the following reasons:

- ARP-4A, M-95, M-96, M-98, M-100, and M-101 were dry.

- PC-124, PC-125, PC-126, PC-127, PC-128, PC-129, PC-130, PC-131, PC-132, PC-151, PC-152, and PC-153R were inaccessible due to having been paved over by others during construction activities.

Field water level measurement logs are included as **Attachment A**. Field investigation daily logs are included as **Attachment B**. The electronic data deliverable (EDD) with the recorded depth-to-water data is transmitted separately via email as an Excel file.

## Transducer Data Downloads

Figures 1 and 2 identify the locations of 64 monitoring wells with 65 transducers requiring data downloads by Tetra Tech as part of the Fourth Quarter/Semi-Annual event as detailed on Table 9 (Transducer Network Summary) of the SAP. Data were successfully downloaded from 46 of the 65 transducers from November 8 to November 20, 2022. Transducer data were not downloaded from 19 transducers for the following reasons:

- M-25, M-71, and PC-55A contain a telemetry device which precludes the requirement of a manual data download:
- No transducers were present at LVWPS-MW201B, LVWPS-MW210C, M-44, M-189, M-193, MCF-30A, NERT5.63S1, PC-137D, PC-156A, S3.58 STILLING, WMW4.9S, and WMW6.15N.
- The transducers at PC-125, PC-130, and PC-152 were inaccessible due to having been paved over by others during construction activities.
- The transducer at WMW6.9N would not connect to field hardware.

The following observations were made during the download of transducer data and, if applicable, a recommendation for repair/modification is provided, or a description of completed repairs is provided:

- PC-155B and PC-156B transducers were found to be recording times one hour behind the correct time; transducers were adjusted to report the correct time and were redeployed.
- S4.34 STILLING level gauge was observed to be missing. The level gauge should be replaced.
- Replacement transducers were deployed at LVWPS-MW201B, LVWPS-MW210C, M-44, M-189, PC-137D, PC-156A, PC-157A, WMW4.9S.
- The transducer data logs for LVWPS-MW206C, NERT3.35S1, NERT4.51S1, and WMW6.55S could not be stopped and reset with the transducer software application. After downloading the transducer data, the transducers were redeployed to continue logging data.
- The transducer at WMW5.7N would not initially connect with field hardware. This transducer was removed to the Tetra Tech field office on November 10, 2023, downloaded and redeployed on November 17, 2023.
- The transducer WMW6.9N would not connect with field hardware and will be sent to the manufacturer for data retrieval. This transducer should be replaced.
- S3.58 STILLING well, level gauge, and transducer were observed to be missing and should be replaced.
- M-193, MCF-30A, NERT5.63S1, and WMW6.15N do not contain transducers. New transducers should be deployed at these locations.

The transducer data download log is provided as **Attachment C**. The electronic transducer data download files were transmitted separately to the Transducer Network Manager via email on December 20, 2022.

## Low-flow Groundwater Sampling

Figure 1 identifies the 106 wells scheduled to be sampled using low-flow groundwater sampling techniques as part of the Fourth Quarter event detailed on Table 4 (Quarterly Monitoring Program Summary) of the SAP. Groundwater samples were collected from 85 of the 106 wells from November 6 to November 10, 2023. Groundwater samples were not collected from 21 wells for the following reasons:

- M-65, M-81A, M-95, M-96, M-98, M-99, M-100, and M-101 were dry or had insufficient water for sampling.

- PC-124, PC-125, PC-126, PC-127, PC-128, PC-129, PC-130, PC-131, PC-132, PC-151, PC-152, and PC-153R were inaccessible due to having been paved over by others during recent construction activities.
- The stick-up portion of M-23 was observed to have been damaged.

The well head at M-11 was discovered to have been detached. The well was still able to be sampled but should be repaired.

All wells were observed to be in good condition except as noted above. During the Fourth Quarter/Semi-Annual event, Tetra Tech identified dedicated tubing to be present in 94 of the 106 wells visited and a dedicated pump to be present in five wells. Tetra Tech stores dedicated tubing for three wells off site. 102 of the 106 wells visited for groundwater sampling during the Fourth Quarter/Semi-Annual event have dedicated tubing or a dedicated pump, continuing the Trust's efforts to reduce resource consumption at the NERT Site.

The low-flow groundwater purging and sampling logs are included as **Attachment D**; and the equipment calibration certifications and logs are included as **Attachment E**. The field parameter EDD is transmitted separately via email.

Groundwater samples were stored in coolers at 4°C and transferred daily under chain-of-custody documentation to Eurofins TestAmerica (ETA) in Phoenix, Arizona from November 6 to November 10, 2023. The samples were submitted for analysis of the parameters identified in the SAP for the Fourth Quarter event. The ETA laboratory reports are available via the Eurofins Online (EOL) website.



## CERTIFICATION

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I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the 2023 Fourth Quarter/Semi-Annual Groundwater Monitoring Summary.



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**Christopher Hayes, CEM**  
Senior Project Manager  
Tetra Tech, Inc.

December 29, 2023

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Date

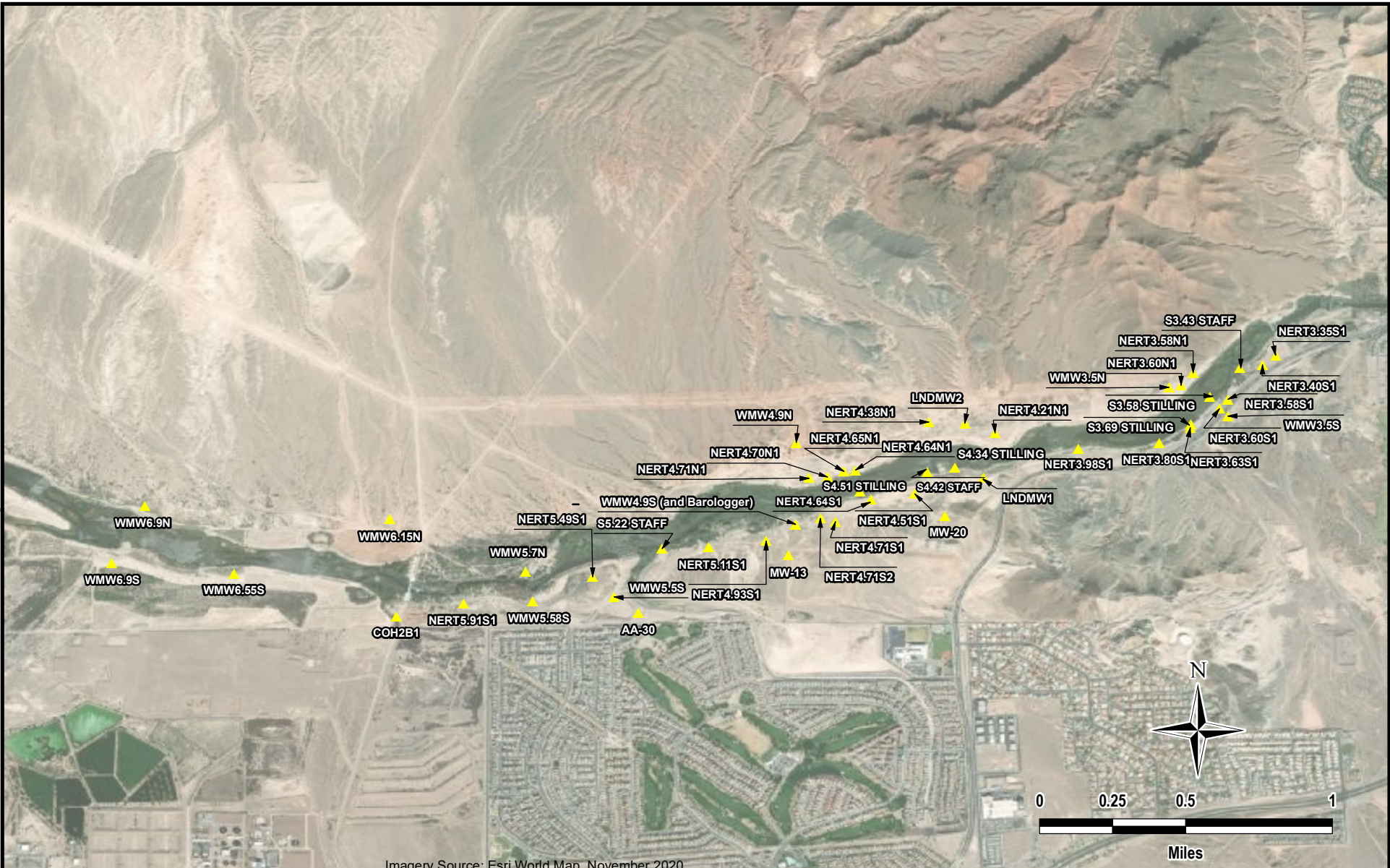
Nevada CEM Certificate Number: 2499  
Nevada CEM Expiration Date: December 15, 2024

# Figures









Imagery Source: Esri World Map, November 2020

**Legend**

▲ Transducer Download

**Tt TETRA TECH**

www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

**NEVADA ENVIRONMENTAL RESPONSE TRUST**

GROUNDWATER MONITORING PROGRAM  
HENDERSON, NEVADA

**SEMI-ANNUAL GROUNDWATER SAMPLING TRANSDUCER  
LOCATIONS AROUND THE LAS VEGAS WASH**

Project No.: 117-7502020

Date: DECEMBER 07, 2020

Designed By: JR

Figure No.  
**2**

**Attachment A**  
**Field Water Level Measurement Log**



WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 11/6/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number: 36384 / 36393	Recorded by: J. Bunkers / J. Heintz / J. Logan / T. Slazas

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
9:34	ARP-1	TOC	24.47	Good	Y
9:37	ARP-2A	TOC	31.44	Good	Y
9:34	ARP-3A	TOC	32.06	Good	Y
9:26	ARP-4A	--	--	Dry	N
9:23	ARP-5A	TOC	34.55	Good	Y
9:20	ARP-6B	TOC	33.88	Good	Y
9:10	ARP-7	TOC	31.94	Good	Y
14:04	ART-6	TOC	31.72	Good	OS
14:32	M-10	TOC	53.18	Good	Y
15:14	M-11	TOC	44.64	Good	Y
15:22	M-12A	TOC	43.00	Good	Y
8:17	M-14A	TOC	34.17	Good	Y
9:43	M-19	TOC	36.11	Good	Y
7:56	M-22A	TOC	29.85	Good	DP
10:28	M-23	TOC	35.99	Good	Y
8:05	M-25	TOC	34.38	Good	N
9:08	M-31A	TOC	46.96	Good	Y
9:35	M-35	TOC	33.81	Good	Y
8:10	M-37	TOC	32.70	Good	Y
8:01	M-38	TOC	31.92	Good	Y
13:07	M-44	TOC	23.27	Good	Y
14:31	M-48A	TOC	31.25	Good	Y
15:18	M-52	TOC	42.19	Good	Y
9:01	M-55	TOC	30.47	Good	N
9:18	M-56	TOC	32.56	Good	N
9:55	M-57A	TOC	30.77	Good	Y
9:33	M-58	TOC	30.90	Good	N
9:22	M-60	TOC	33.37	Good	N
9:46	M-64	TOC	30.52	Good	Y
9:41	M-65	TOC	33.75	Good	N
9:36	M-66	TOC	32.45	Good	DP
10:28	M-67	TOC	23.10	Good	Y
9:51	M-68	TOC	27.66	Good. Casing is missing padlock.	Y
8:03	M-69	TOC	35.05	Good	N
8:16	M-70	TOC	36.44	Good	DP
8:27	M-71	TOC	35.88	Good	Y





WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 11/6/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number: 36384 / 36393	Recorded by: J. Bunkers / J. Heintz / J. Logan / T. Slazas

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
8:32	M-72	TOC	32.35	Good	DP
10:51	M-73	TOC	31.03	Good	Y
10:07	M-74	TOC	29.19	Good	Y
9:05	M-78	TOC	33.60	Good	DP
8:09	M-79	TOC	32.61	Good	Y
11:16	M-80	TOC	36.45	Good	DP
11:06	M-81A	TOC	34.32	Good	Y
11:28	M-83	TOC	32.51	Good	Y
13:43	M-95	--	--	Dry	Y
13:26	M-96	--	--	Dry	Y
10:07	M-98	--	--	Dry	Y
10:04	M-99	TOC	34.03	Good	Y
11:56	M-100	--	--	Dry	N
11:49	M-101	--	--	Dry	N
12:15	M-129	TOC	31.20	Good	DP
8:28	M-135	TOC	35.67	Good	Y
8:24	M-161D	TOC	16.02	Good	Y
8:20	M-162D	TOC	9.92	Good	OS
8:40	M-166	TOC	31.43	Good	N
8:43	M-167	TOC	30.12	Good	N
8:49	M-168	TOC	28.38	Good	N
8:52	M-169	TOC	30.40	Good	N
8:57	M-170	TOC	30.28	Good	N
9:13	M-172	TOC	33.87	Good	N
9:25	M-173	TOC	30.02	Good	N
10:40	M-174	TOC	21.28	Good	N
10:32	M-175	TOC	22.01	Good	N
10:15	M-176	TOC	24.73	Good	N
9:58	M-177	TOC	22.59	Good	N
9:23	M-186D	TOC	46.61	Good	OS
14:57	M-189	TOC	34.88	Good	Y
13:07	M-190	TOC	36.10	Good	Y
14:53	M-191	TOC	38.68	Good	Y
15:00	M-192	TOC	37.75	Good	Y
13:10	M-193	TOC	39.10	Good	Y
9:30	MW-K4	TOC	32.70	Good	Y

BMP = Below Measuring Point DP = Dedicated Pump OS = Offsite Storage TOC = Top of Casing (Well Riser)



WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 11/6/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number: 36384 / 36393	Recorded by: J. Bunkers / J. Heintz / J. Logan / T. Slazas

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
8:49	MW-K5	TOC	25.89	Good	Y
9:13	PC-18	TOC	30.28	Good	Y
8:48	PC-53	TOC	22.70	Good	Y
13:58	PC-54	TOC	26.30	Good	Y
9:09	PC-55	TOC	29.11	Good	Y
10:21	PC-56	TOC	12.71	Good	Y
10:14	PC-58	TOC	13.87	Good	Y
10:33	PC-59	TOC	12.64	Good	Y
10:23	PC-60	TOC	11.89	Good	Y
11:53	PC-62	TOC	12.59	Good	Y
13:01	PC-71	TOC	25.47	Good	Y
12:54	PC-72	TOC	28.02	Good	Y
10:07	PC-86	TOC	6.87	Good	Y
10:03	PC-90	TOC	1.03	Good	Y
9:57	PC-91	TOC	7.20	Good	Y
9:48	PC-94	TOC	12.34	Good	Y
11:38	PC-97	TOC	6.70	Good	Y
8:58	PC-98R	TOC	19.43	Good	Y
9:55	PC-101R	TOC	36.50	Good	Y
8:37	PC-103	TOC	21.08	Good	Y
8:19	PC-122	TOC	35.39	Good	Y
13:55	PC-123	TOC	22.48	Good	Y
13:20	PC-124	--	--	Obstructed, paved over.	--
13:21	PC-125	--	--	Obstructed, paved over.	--
13:22	PC-126	--	--	Obstructed, paved over.	--
13:30	PC-127	--	--	Obstructed, paved over.	--
13:25	PC-128	--	--	Obstructed, paved over.	--
13:31	PC-129	--	--	Obstructed, paved over.	--
13:26	PC-130	--	--	Obstructed, paved over.	--
13:27	PC-131	--	--	Obstructed, paved over.	--
13:28	PC-132	--	--	Obstructed, paved over.	--
9:47	PC-134D	TOC	31.71	Good	Y
9:51	PC-135A	TOC	36.25	Good	Y
8:26	PC-136	TOC	36.20	Good	N
8:34	PC-137D	TOC	33.82	Good	Y
9:40	PC-144	TOC	36.45	Good	Y



WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 11/6/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number: 36384 / 36393	Recorded by: J. Bunkers / J. Heintz / J. Logan / T. Slazas

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
9:24	PC-148	TOC	29.39	Good	Y
9:20	PC-149	TOC	30.49	Good	Y
13:32	PC-151	--	--	Obstructed, paved over.	--
13:30	PC-152	--	--	Obstructed, paved over.	--
13:29	PC-153R	--	--	Obstructed, paved over.	--
8:50	PC-154	TOC	10.06	Good	Y
10:47	PC-155A	TOC	17.73	Good	N
10:46	PC-155B	TOC	17.07	Good	N
11:23	PC-156A	TOC	11.79	Good	Y
11:37	PC-156B	TOC	14.78	Good	Y
10:51	PC-157A	TOC	14.81	Good	Y
11:21	PC-157B	TOC	15.33	Good	Y
8:55	PC-158	TOC	11.94	Good	Y
9:00	PC-159	TOC	14.15	Good	Y
9:03	PC-160	TOC	13.54	Good	Y

BMP = Below Measuring Point DP = Dedicated Pump OS = Offsite Storage TOC = Top of Casing (Well Riser)



**Attachment B**  
**Field Investigation Daily Logs**









Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/8/23
Field Personnel: JSB, JL, JL, TS, MO		Task No: H02
Location: Site Wide	Tablet #: 1	Reported by: J. Bunkers

Weather Conditions: 67°F, Sunny, Windy  
 Total Vehicle Mileage: 20  
 Task Visitors / Subcontractors: None  
 Matters of Safety:  
 Wind, Traffic  
 Problems / Concerns and Corrective Actions Taken:  
 None

Time	Activities
0545	Arrive at cannon, collect stored tubing, make to office
0630	Tailgate/safety meeting with sampling team, gather supplies, help TS rig a air connector for h.s mp-10.
0750	Check in at WWTP
0800	Arrive at PC-122, setup to sample
0825	Collect sample PC-122-20231108, decon, make to ART-6
0910	Collect sample ART-6-20231108, decon, make to PC-148
1000	Collect sample PC-148-20231108, decon, make to PC-158
1030	Collect sample PC-158-20231108, decon, make to PC-123
1120	Collect sample PC-123-20231108, decon, make to M-83
1400	Collect sample M-83-20231108 decon, TR-AR missing/passed over, make to CalW-1
1430	SB-1 = 49.53, no dye, SB-2 = 50.47, no dye, SB-3 = 31.31, no dye
1600	Done for day

















Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/19/23
Field Personnel: JB, MO, JL, TS		Task No: H02
Location: Site Wide	Tablet #: 5	Reported by: JH

Weather Conditions: H 69°, breezy  
 Total Vehicle Mileage: 25  
 Task Visitors / Subcontractors: none  
 Matters of Safety: GW, Vehicles  
 Problems / Concerns and Corrective Actions Taken: none

Time	Activities
0630	Arrive at office, H+S meeting, gather supplies, move to Borman.
0730	Arrive at Borman, check in w/ security.
0800	X Sample "M-01A-20231109", decon, move to next well. - sample not taken → insufficient water
0915	Sample "M-12A-20231109", decon, move to NERT.
1100	Sample "M-71-20231109", decon, move to next well. X Sample → EV transducer present
1145	Did not sample M-65 due to insuff. water/pump not fitting.
1230	Sample "M-64-20231109", decon, move to next well.
1415	Sample "M-25-20231109", decon, move to office. - EV transducer present
1445	Arrive at office, drop samples, upload forms, dump purge H <sub>2</sub> O.
1600	Done for day.

W  
 M-64  
 M-25



Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/10/23
Field Personnel: MD, TS, JL, JB		Task No: H02
Location: Site Wide	Tablet #: 5	Reported by: JH

Weather Conditions: sunny, H 77

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: none

Matters of Safety: Vehicles, offroading

Problems / Concerns and Corrective Actions Taken: none

Time	Activities
0630	Arrive at office, H+3 meeting, gather supplies, move to CUW.
1000	NERT 3.94 NI ✓
1200	WMW 3.5 NI ✓ → got stuck in sand.
1230	LNOMW2 ✓
1256	NERT 4.70 NI ✓
1315	NERT 4.70 NI ✓
1430	WMW 4.9 NI ✓ stuck again!!! [redacted] [redacted]
	NERT 5.26 NI
	5.83
	6.9
1700	Done for day after shipping equipment to FedEx.

8103 LNOMW2



Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/13/27
Field Personnel:		Task No: H02
Location: Site Wide	Tablet #: 5	Reported by: JH

Weather Conditions: sunny, breezy  
 Total Vehicle Mileage: 25  
 Task Visitors / Subcontractors: none  
 Matters of Safety: getting stuck, GW ~~at Henderson~~  
 Problems / Concerns and Corrective Actions Taken:

Time	Activities
0700	Arrive at office, gather supplies.
0800	Arrive at NERT 8.26 NI - download successful
	NERT 5.83 NI - download successful
	* WMW 6.9 N - can't connect, no download
	NERT 3.35 SI - download successful
	NERT 4.51 SI - EK - no download
	LUWPS 206C - download successful
	NERT 3.40 SI - <del>download successful</del> redeployed
	NERT 3.98 SI - <del>download successful</del> redeployed
	WMW 4.95 - redeployed
	LUWPS 210C - redeployed
	LUWPS 201B redeployed
1600	Done for day.





Task Name: ~~ZVI Treatability Study Phase 2~~

Task Manager: ~~D. Grady~~

Date: 11/14/23

Field Personnel:

Task No: ~~MFB~~ H02

Location: West of E. Russel Rd and Westin Ridge Street

LW

Reported by: JH

Weather Conditions: sunny, no wind

Matters of Safety:

EK transducers 0830 am

Problems / Concerns and Corrective Actions Taken:

none

Time	Activities
0700	Arrive at office, gather supplies.
0830	Meet w/ Katie from Ramboll at AA-30, to learn EK transducers.
1200	Head back out to download EK transducers.
1245	PC-155 A unable to connect due to old software.
1300	NERT 4.6451 ✓ - Ramboll EK
1415	Unable to locate S3.58.
1445	S3.69 ✓ - Ramboll 1.92 EK and Solinst
1000	NERT 4.51 ✓ - Ramboll EK
1530	S4.34 ✓ - Ramboll Solinst Gauge washed away
1600	S4.51 ✓ - Ramboll EK 2.92
1645	Done for day.

M  
 B-1860 Borman  
 PC-155A LW  
 M-71 NERT  
 M-25 NERT

Ram  
 ✓ NERT 4.6451 LW  
 PC 186 WWTP

? WNW 6.555  
 ? M2R 4.7152

Ram ✓ NERT 4.5151

-Dier store near field

PC 404 newly installed EK



Task Name: GW Monitoring Task Manager: Jesse Bunkers Date: 11/17/23

Field Personnel: Task No: H02

Location: Site Wide Tablet #: 5 Reported by: JH

Weather Conditions: Sunny, H 69°

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: none

Matters of Safety: bW, offroading

Problems / Concerns and Corrective Actions Taken: none

Time Activities

0700 Arrive at office, gather supplies, move to LVW (North)

0900 Arrive at WMW 5.7 N to redeploy Solinst.

1045 PC-155A - Modem light is solid green, data downloaded in DAT file, VET - DJ758. Unable to change Drwer Monitoring point?? 12.1 DTW

1130 WMW 6.555 downloaded, modem antenna broken, name is S3.60 SW

1150 NERT 5.9151 downloaded, Solinst

1210 WMW 5.754 downloaded, Solinst

1230 NERT 5.9151 downloaded, Solinst

1245 MCF 30A, no transducer, dedicated pump

1255 MCF 30B, downloaded, Solinst (was already downloaded 11/10)

1345 WMW 4.95 Baro downloaded

1400 NERT 4.7152 downloaded, EV -> modem batteries replaced, light was solid

1420 LNDMW-1 downloaded, Solinst green/blinking red

1450 COH201 downloaded, Solinst

1500 ES57B downloaded, Solinst

1510 ES57A downloaded, Solinst, nabe to office.

1540 Arrive at office, upload data.

1600 Done for day.









TETRA TECH, INC.

DAILY FIELD ACTIVITIES SUMMARY

Proj. Name	H02 GWM
Project #	117-7502023-H02
Project Location	Henderson, NV
Page: 1 of 1	Date: 11/7/23
Completed By: JL	Staff: JL, JB, JH, MO, TS

Subcontractor #1 on site: <i>NA</i>	Sub-contractor's Supervisor:
Subcontractor #2 on site:	Sub-contractor's Supervisor:
Client Representative on site:	

	Staff #1 - hours	Staff #2 - hours	Staff #3 - hours	Work Performed
Employee Initials:				
Pre-Field Mob:				
Travel:				
Field:				
Post Field Demob:				

Summary of Work Performed Today:

0630 Arrive at office to collect equipment and discuss HQS

0730 Move to ARP-1

0816 Sampling, decan, move to ARP-6B

0830 Check in w/ WTP security

0908 Sampling ARP-6B, decan, move to ARP-5A

1007 Sampling ARP-5A, decan, move to ~~MW-4A~~ ARP-4A

1113 Sampling, decan, move to MW-K4

1212 Sampling, decan, move to ARP-2A

1259 Sampling, decan, move to office to dump purge water, calibrate YSI, drop off samples, and debris

1547 Done for day

Additional Data/Notes Submitted With This Form:

Site Map/Drawing:	AS/SVE/MPE Operations Log:	Drum Management Log:	Reviewed By:
Soil Boring Log:	AS/SVE/MPE Maintenance Log:	IDW Soil Management Doc:	
Daily Driller's Report:	SVE Optimization Worksheet:	IDW Water Management Doc:	Date Reviewed:
Well Construction As-Built:	Contractor's Field Ticket:	Photograph Log:	
Well Development/Purging Log:	Vendor Ticket:	Equipment Log:	
Water Level Measurement Log:	GW Sampling Forms:	Chain of Custody:	
Other Data/Logs:			



Task Name: GW Monitoring Task Manager: Jesse Bunkers Date: 11/9/23  
 Field Personnel: JL, JB, JH, Mo, TS Task No: H02  
 Location: Site Wide Tablet #: 4 Reported by: JL

Weather Conditions: clear, calm, ~75°F  
 Total Vehicle Mileage: ~10 mi  
 Task Visitors / Subcontractors: None  
 Matters of Safety: Traffic, slip/trip/fall, dehydration  
 Problems / Concerns and Corrective Actions Taken: None

Time	Activities
0630	Arrive at office to pick up equipment and discuss H&S
0730	Move to PC-54
0806	Sampling PC-54, decon, move to PC-149
0912	Sampling PC-149, FB
0916	Sampling PC-149, decon, move to PC-160
10:23	Sampling PC-160, decon, move to PC-159
11:27	Sampling, decon, move to PC-154
12:19	Sampling, decon, move to M-191
1324	Unable to stabilize water level, sampled after 1 system vol.
1329	Sampling, decon, move to M-10
1411	Unable to stabilize water level, sampled after 1 system vol.
1420	Sampling, decon, move to office, upload forms, drop off samples, calibrate YSI
1545	Done for day

30.64  
120









Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/6/23
Field Personnel: JB, JH, JL, TS		Task No: H02
Location: Site Wide	Tablet #: 6	Reported by: MB

Weather Conditions: Clear 80's windy

Total Vehicle Mileage: 20

Task Visitors / Subcontractors:

Matters of Safety: Struck by, Slips trips and falls

Problems / Concerns and Corrective Actions Taken: None

Time	Activities
0615	Arrived at office
0745	Attended HHS meeting, loaded truck and left for field
0757	M-22K - 29.85
0801	M-36 - 31.92
0805	M-25 - 34.38
0810	M-37 - 32.70 - no lock
0817	M-14A - 34.17
0826	M-1610 - 16.02
0828	M-135 - 35.67
0851	PC-154 - 10.06
0856	PC-158 - 11.94
0900	PC-157 - 14.15
0904	PC-160 - 13.54
0910	PC-55 - 29.11
0913	PC-18 - 30.28
0921	PC-149 - 32.49
0925	PC-148 - 29.39
0935	ADP-1 - 24.47
0948	PC-94 - 12.34
0958	YSI - YSI Pro255 - 34
1003	WLM - 49856
1007	Compressor - 21431
1017	MP10 - N/A
1024	Black Pump - N/A
1110	2022 Jeep Gladiator w/white
1300	Box #5
1415	Tablet #6
1435	Arrived at office
1630	Calibrated YSI, Reline visited samples, unloaded truck and left office.
	PL-91 - 7.20
	PC-90 - 1.03
	PC-66 - 6.87
	PC-59 - 13.87
	PC-60 - 11.89 no lock
	Sampled PC-59 - 20231106, clean, mobile PC-62
	Sampled PC-62 - 20231106, clean, mobile to GW-11
	Arrived at GW-11 to dispose of IOW mobile to office





Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/7/23
Field Personnel: JB, JH, JL, TS,		Task No: H02
Location: Site Wide	Tablet #:	Reported by: MSJ

Weather Conditions: Sunny 90's windy

Total Vehicle Mileage: 25

Task Visitors / Subcontractors:

Matters of Safety: Slip + trips falls

Problems / Concerns and Corrective Actions Taken: None 6.5

Time	Activities
0615	Arrived at Office
0730	Attended H&S meeting, loaded trucks and mob to first well
0950	Sampled PC-56-20231107 - down, mob to PC-56-FB
1005	Sampled PC-56-20231107-FB, mob to PC-1370
1100	Sampled PC-1370-20231107, down, mob to PC-53
1140	Sampled PC-53-20231107, down, mob to MW-115
1230	Sampled MW-115-20231107 / MW-115-20231107-FD, down, mob to PC-136
	Sampled PC-136-20231107, down, mob to GW-11
1355	Arrived at office
1545	Revised samples, calibrated YSI, unloaded truck and left for today



Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/08/25
Field Personnel: JB, JH, JL, TS		Task No: H02
Location: Site Wide	Tablet #:	Reported by: JSB

Weather Conditions:

Total Vehicle Mileage: 20

Task Visitors / Subcontractors:

Matters of Safety: Slip + trips falls struck by

Problems / Concerns and Corrective Actions Taken: None

Time	Activities
0615	Arrived at office
0705	Attended H+S meeting, loaded truck, and left for first well
0745	Sampled PC-55-20231108, decon,
0800	Sampled PC-58-20231108-EB, mob to PC-18
0835	Sampled PC-18-20231108, decon, mob to PC-72
0930	Sampled PC-72-20231108, decon, mob to PC-71
1010	Sampled PC-71-20231108, decon, mob to M-98
1058	Well M-98 was dry no sample taken, mob to M-99
1104	Well M-99 had insufficient water to pump, mob to M-23
1140	Well M-23 damage no sample taken, mob to <del>M-11</del> GW-11 MW-190
1300	Sampled MW-190-20231108, decon, mob to <del>M-11</del> GW-11
1400	Arrived at GW-11 to dispose of IDW, mob to office
1410	Arrived at office
1600	Relinquished samples, unload truck, and left office for the day



Task Name: GW Monitoring

Task Manager: Jesse Bunkers

Date: 11/9/23

Field Personnel: JB, JH, JL, TS

Task No: H02

Location: Site Wide

Tablet #: 6

Reported by: MSJ

Weather Conditions: Clear High 60's windy

Total Vehicle Mileage: 20

Task Visitors / Subcontractors:

Matters of Safety: Slip trips falls Struck by

Problems / Concerns and Corrective Actions Taken: None

Time	Activities
0615	Arrived at office
0705	Attended HHS meeting, loaded truck and mob to field's well
0800	Sampled M-17C-20231109, decon mob to M-11
0845	Sampled M-11-20231109, decon, mob to M-73
0945	Sampled M-73-20231109, decon, mob to M-52
1040	Sampled M-52-20231109, decon mob to M-31A
1140	Sampled M-31A-20231109, decon mob to M-35
1235	Sampled M-35-20231109, decon mob to M-22A
1330	Sampled M-22A-20231109, decon mob to office
1400	Arrived at office calibrated YSL
1600	Relinquished samples, unloaded truck, and left for the day





Task Name: GW Monitoring	Task Manager: Jesse Bunkers	Date: 11/10/23
Field Personnel: JB, JH, JL, TS		Task No: H02
Location: Site Wide	Tablet #: 6	Reported by: JS

Weather Conditions: Sunny High 20s

Total Vehicle Mileage: 25

Task Visitors / Subcontractors:

Matters of Safety: Slips trips falls / Struck by

Problems / Concerns and Corrective Actions Taken: None

Time	Activities
0600	Arrived at Office
0730	Attended HHS meeting, loaded truck, and left office for first well
0810	Downloaded MLE-80B data, redeployed mob to next well
0845	Downloaded MW-23 data, redeployed mob to next well
0910	Downloaded MW-22 data, redeployed, mob to next well
0930	Could not connect Nert 3.35SI, redeployed, mob to next well
0944	Downloaded Nert 3.80SI, redeployed, mob to next well
0959	Could not download Nert 4.51SI, redeployed, mob to next well
1019	Downloaded data Nert 5.11SI data, redeployed mob to next well
1030	No transducer at Nert 5.63SI, mob to next well
1057	Could not download Wmw 4.9S, redeployed, mob to next well
1120	Could not download Wmw 6.55S data, mob to next well
<del>1200</del> 1200	Could not download Wmw 6.9S data, mob to <del>office</del> next well
1252	Downloaded Nert 3.40SI data, redeployed, mob to next well
1300	Could not download Nert 4.45SI data, mob to next well
1340	Could not download Wumps-MW206, mob to office
1400	Arrived at office
1515	Unloaded truck, finished paperwork, and left for airport















# **Attachment C**

## **Transducer Data Download Log**

Task Name: GW Monitoring	Task No: H02	WLM Type: Solinst
Task Manager: Jesse Bunkers	Recorded by: J. Bunkers, M. Ozier, J. Heintz, J. Logan, T. Slazas	WLM Serial Number: 36384 / 36393

Well ID	Date	Time of Manual Measurement	Manual Depth to Static Water Level (ft BMP)	Measuring Point	Transducer Serial Number	Time of Transducer Removal	Time of Transducer Redeployment*	Notes
AA-30	11/14/2023	8:03	17.89	TOC	0042069913	8:03	10:00	
COH-2B1	11/17/2023	14:51	16.69	TOC	0042069892	14:51	15:00	
ES-57A	11/17/2023	15:02	18.87	TOC	0042065098	15:02	16:00	
ES-57B	11/17/2023	15:00	16.51	TOC	0042103021	15:00	16:00	
LNDMW-1	11/17/2023	14:24	35.73	TOC	0042069896	14:24	15:00	
LNDMW-2	11/10/2023	12:27	33.34	TOC	0042069894	12:27	13:00	
LVWPS-MW201B	11/13/2023	12:50	18.75	TOC	1044884	12:50	13:00	New transducer deployed.
LVWPS-MW206C	11/13/2023	13:23	35.42	TOC	587777	13:23	14:00	Continuous log, not stopped/restarted
LVWPS-MW210C	11/13/2023	13:06	24.96	TOC	1071022	13:06	14:00	New transducer deployed.
M-25	11/9/2023	14:58	34.47	TOC	39334120	14:58	14:00	Telemetry device present. Downloaded 11/20
M-44	11/8/2023	10:50	23.30	TOC	BX715	10:50	12:00	Eijkamp installed by ramboll staff
M-71	11/9/2023	14:56	35.74	TOC	40054647	14:56	14:00	Telemetry device present. Downloaded 11/20
M-162D	11/20/2023	14:16	10.09	TOC	425317	14:16	15:00	
M-186D	11/20/2023	12:27	30.09	TOC	Eijkamp	12:27	13:00	
M-189	11/9/2023	14:47	35.20	TOC	532218	14:47	10:00	Placed new transducer in well.
M-193	11/20/2023	12:19	39.06	TOC	532194	12:19	13:00	Cable present, no transducer present.
MCF-30A	11/17/2023	13:03	3.83	TOC	000000	13:03	14:00	No transducer present.
MCF-30B	11/17/2023	13:04	15.67	TOC	0042087052	13:04	14:00	File was named NERT4.38N1
MW-13	11/10/2023	8:32	34.52	TOC	0042069903	8:32	9:00	
MW-20	11/10/2023	8:59	31.61	TOC	0042069901	8:59	10:00	
NERT3.35S1	11/13/2023	14:47	21.62	TOC	2103389	14:47	15:00	Continuous log, not stopped/restarted
NERT3.40S1	11/13/2023	14:51	38.79	TOC	2103397	14:51	16:00	Could not connect; redeployed
NERT3.60S1	11/10/2023	12:47	38.16	TOC	0042103390	12:47	13:00	
NERT3.80S1	11/10/2023	9:40	8.74	TOC	0042081484	9:40	10:00	
NERT3.94N1	11/10/2023	9:02	37.23	TOC	0042103377	9:02	11:00	
NERT3.98S1	11/13/2023	15:14	10.09	TOC	1073561	15:14	16:00	Could not connect; redeployed
NERT4.51S1	11/14/2023	10:00	25.50	TOC	0042081153	10:00	11:00	Continuous log, not stopped/restarted, Eijkamp 38942506
NERT4.64S1	11/14/2023	13:00	26.55	TOC	38942508, Eijkamp	13:00	14:00	
NERT4.70N1	11/10/2023	12:50	24.43	TOC	2012672	12:50	14:00	
NERT4.71N1	11/10/2023	13:01	27.45	TOC	2103382	13:01	14:00	

\*Deployment time is equal to the time that the log was set to begin recording readings.

Task Name: GW Monitoring	Task No: H02	WLM Type: Solinst
Task Manager: Jesse Bunkers	Recorded by: J. Bunkers, M. Ozier, J. Heintz, J. Logan, T. Slazas	WLM Serial Number: 36384 / 36393

Well ID	Date	Time of Manual Measurement	Manual Depth to Static Water Level (ft BMP)	Measuring Point	Transducer Serial Number	Time of Transducer Removal	Time of Transducer Redeployment*	Notes
NERT4.71S2	11/17/2023	13:56	26.87	TOC	39334118, Eijkelkamp	13:56	15:00	Eijkelkamp 3134118
NERT5.11S1	11/10/2023	10:14	20.27	TOC	0042086183	10:14	11:00	
NERT5.26N1	11/13/2023	10:27	15.69	TOC	0042099333	10:27	11:00	
NERT5.49S1	11/17/2023	12:35	26.23	TOC	0042086023	12:35	13:00	
NERT5.63S1	11/10/2023	10:28	22.02	TOC	none	10:28	11:00	Does not have transducer.
NERT5.83N1	11/13/2023	11:05	18.22	TOC	0042081156	11:05	12:00	
NERT5.91S1	11/17/2023	11:56	13.22	TOC	0042081460	11:56	13:00	
PC-56	11/7/2023	7:57	12.86	TOC	599354	7:57	10:00	
PC-98R	11/8/2023	11:39	21.79	TOC	587399	11:39	12:00	Download successful on baro and transducer. BARO time reset to 1969.
PC-125	11/9/2023	13:16	--	--	--	13:16	--	Obstructed
PC-130	11/9/2023	13:16	--	--	--	13:16	--	Obstructed
PC-136	11/20/2023	11:34	30.09	TOC	532216	11:34	12:00	
PC-137D	11/9/2023	13:12	28.41	TOC	1070658	13:12	14:00	No data. deployed new transducer.
PC-152	11/9/2023	13:17	--	--	--	13:17	--	Obstructed
PC-155A	11/7/2023	12:53	12.70	TOC	DI80110mDJ758	12:53	13:00	Telemetry device, not downloaded
PC-155B	11/6/2023	14:49	12.21	TOC	532217	14:49	14:00	Synchronize time (transducer time 1 hr behind)
PC-156A	11/7/2023	10:33	8.10	TOC	532109	10:33	11:00	No transducer present, new one deployed. SN: 1071444
PC-156B	11/7/2023	10:36	15.11	TOC	532213	10:36	12:00	Synchronize time (transducer time 1 hr behind)
PC-157A	11/8/2023	9:01	14.86	TOC	532405	9:01	10:00	Download successful.
PC-157B	11/8/2023	10:28	10.51	TOC	532117	10:28	11:00	Download successful.
S3.58 STILLING	11/17/2023	8:00	--	--	--	8:00	--	Stilling well destroyed; transducer missing
S3.69 STILLING	11/14/2023	14:45	1.92	TOC	000000	14:45	15:00	Ek transducer and solinst present.
S4.34 STILLING	11/14/2023	15:30	1.70	TOC	2065556	15:30	16:00	Gauge was washed away, unable to get dtw.
S4.51 STILLING	11/14/2023	16:00	2.92	TOC	000000	16:00	17:00	
WMW3.5N	11/10/2023	12:09	35.21	TOC	0042069895	12:09	12:00	Download successful.
WMW4.9N	11/10/2023	13:11	31.46	TOC	0042069885	13:11	14:00	
WMW4.9S	11/13/2023	13:38	26.09	TOC	0042069899	13:38	15:00	New transducer deployed. transfered from PC-157A
WMW4.9S (BARO)	11/17/2023	13:26	25.99	TOC	0012069737	13:26	15:00	
WMW5.5S	11/17/2023	12:24	13.10	TOC	0042081486	12:24	13:00	
WMW5.7N	11/17/2023	9:27	8.55	TOC	0042069904	9:27	10:00	Redeployed transducer.

\*Deployment time is equal to the time that the log was set to begin recording readings.



Task Name: GW Monitoring	Task No: H02	WLM Type: Solinst
Task Manager: Jesse Bunkers	Recorded by: J. Bunkers, M. Ozier, J. Heintz, J. Logan, T. Slazas	WLM Serial Number: 36384 / 36393

Well ID	Date	Time of Manual Measurement	Manual Depth to Static Water Level (ft BMP)	Measuring Point	Transducer Serial Number	Time of Transducer Removal	Time of Transducer Redeployment*	Notes
WMW5.7S	11/17/2023	12:09	16.77	TOC	0042069897	12:09	13:00	
WMW6.15N	11/20/2023	10:30	23.26	TOC	0042069891	10:30	11:00	No transducer.
WMW6.55S	11/17/2023	11:28	16.08	TOC	BW421	11:28	12:00	Continuous log, not stopped/restarted
WMW6.9N	11/13/2023	11:28	17.74	TOC	0042068798	11:28	12:00	Unable to connect, no download; Pulled 11/13
WMW6.9S	11/10/2023	11:27	8.69	TOC	0042067219	11:27	12:00	No Access. Unable to open lock. J. Bunkers was able to gain access and download data.

\*Deployment time is equal to the time that the log was set to begin recording readings.

**Attachment D**  
**Low-Flow Water Purging & Sampling**  
**Logs**





































































































































































































































# **Attachment E Calibration Logs**

### YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: FM

DATE: 10/2/23

RENTAL CUSTOMER:

#### INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS 15

SERIAL NUMBER: 16J10479

#### CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>088047</u>
2. pH ZERO	pH 7	/	<u>086097</u>
pH SLOPE	pH 4	/	<u>086098</u>
pH SLOPE	pH 10	/	<u>082794</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfit)	/	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>10/2/23</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>120522</u>

# EQUIPCO

## RENTALS

### YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: FM

DATE: 11/2/23

RENTAL CUSTOMER:

#### INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS 03

SERIAL NUMBER: 195100049

#### CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>088047</u>
2. pH ZERO	pH 7	/	<u>086007</u>
pH SLOPE	pH 4	/	<u>086006</u>
pH SLOPE	pH 10	/	<u>082724</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfit)	/	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>11/2/23</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>120522</u>



### YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: FM

DATE: 11/2/23

RENTAL CUSTOMER:

#### INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS. 33

SERIAL NUMBER: 19J101002

#### CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>088047</u>
2. pH ZERO	pH 7	/	<u>080097</u>
pH SLOPE	pH 4	/	<u>086096</u>
pH SLOPE	pH 10	/	<u>082714</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfit)	/	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>11/2/23</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>120522</u>

### YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN:

FM

DATE:

10/2/20

RENTAL CUSTOMER:

#### INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS.

34

SERIAL NUMBER:

~~195100418~~ 195100418

#### CALIBRATION INFORMATION

##### PARAMETER:

##### STANDARD:

##### PASS ( )

##### LOT #

1. CONDUCTIVITY

1,000  $\mu$ Mhos

/

088047

2. pH ZERO

pH 7

/

086097

pH SLOPE

pH 4

/

086096

pH SLOPE

pH 10

/

082724

3. DISSOLVED OXYGEN

Air Calibration  
Barometric pressure = 760mmHg

/

N/A

DISSOLVED OXYGEN  
ZERO TEST

(Sodium Sulfito)

/

N/A

4. TURBIDITY ZERO

0.0 NTU's

/

N/A

TURBIDITY SPAN

100 NTU's

/

10/2/20

5. REDOX (ORP)

231mV (YSI Zobell solution)

/

120522







Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: SL

Serial Number: 16J104979

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
11/6/23	1434	24.3	4.01	7.13	9.95	227.9	1188	108.0	0.88	4.00	7.00	10.02	225.9	1140	100.0	0.00
11/7/23	1428	24.9	4.00	7.14	9.93	224.6	1136	99.0	0.13	4.00	6.99	10.00	223.4	1129	100.0	0.00
11/8/23	1610	24.7	4.26	7.08	9.99	223.1	1110	97.4	-0.32	3.95	7.00	10.00	222.7	1118	100.0	0.00
11/9/23	1617	24.4	4.19	7.09	9.89	222.7	1109	99.5	-0.10	3.99	6.99	10.00	223.8	1104	100.0	0.00

Notes:



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: MSO

Serial Number: YSI ProDSS, 34

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
11/06/23	1450	24.0	7.58	12.68	13.52	230.6	919	95.2	4.13	3.46	6.98	9.97	231	799	100	1.03
11/07/23	1420	23.1	<del>4.15</del> 7.21	7.21	9.93	232.4	2142	94	-0.62	4.00	7.01	10.00	233.4	1000	<del>100</del> 100	000
11/8/23	1427	23.2	4.11	7.21	9.86	240.8	1340	<del>10.95</del> 94.6	10.45	4.00	7.00	10.00	236.4	1000	100	000
11/9/23	1428	20.0	4.02	7.05	9.95	236.6	1084	94.6	0.25	4.00	7.00	10.00	235.9	1000	100	000

Notes:

5717539



Task Name: GW Monitoring

Task No.: H02

Rental from: EQUIPCO

Task Manager: Jesse Bunkers

Field Personnel: JB, JH, JL, TS, MO

Serial Number: 195 100183  
195 101002

Type: YSI ProDSS

Date	Time	Temp (°C)	Pre-Calibration							Post-Calibration						
			pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)	pH (pH = 4.0)	pH (pH = 7.0)	pH (pH = 10.0)	ORP (mV)	Cond. (mS/cm)	DO (%)	Turbidity (NTU)
11/7/23	1450	25.1	3.96	7.09	10.06	229.8	1074	101.9	-1.03	4.00	7.00	10.00	230.5	1000	100	0.00
11/8/23	1515	24.2	4.03	6.95	9.98	230.4	990	98.8	-0.66	4.00	7.00	10.00	230.9	1000	100	0.00
11/9/23	1455	24.3	3.92	7.00	9.96	232.0	938	100.4	-0.03	4.00	7.00	10.00	230.9	1000	100	0.00

Notes:  
TS



# November 2023 Sampling Event

DTW readings taken manually for all Interceptor Wells, SWF, AWF and AP5 Wells unless otherwise noted

## Issues/Concerns

IWF, SWF, AWF, AP5 Wells	Manual depths taken with a Geotech Water Level Meter #8467
PC99R2/R3	When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading. Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel
AP5 Wells	Sampled by ETI 2023 11 09. Will be done on a Monthly basis by ETI.
*PC-115R; PC-116R; PC-99R2/R3;	All have more than 1-foot difference in DTW from 10/2023 to 11/2023. Data recorded on field sheet.
*PC-117; pc-118; PC-119; PC-120; PC-121;	
*ART-1; ART-1a; ART-2A; ART-3A; ART-4; ART-4A;	
*ART-7B; ART-8A; ART-9; I-AD; I-D; I-E; I-H; I-J;	
*I-M; I-N; I-O; I-P; I-R; I-S; I-V; I-W; I-X; I-Y	
ART-2 and ART-2A	Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2022 11 14.
I-AB, I-AC	DTW taken prior to turning well on to sample, purged prior to collecting sample.
I-Q	DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe. Emily McGuire sampled NOVEMBER 2023.
SWF	Fluctuating DTWs across SWF/AWF due to Henderson Water discharging into nearby ponds.

## FD/EB

<b>SWF</b>	PC-121 2023 11 14 – FD	PC-133 2023 11 14 - EB
<b>AWF</b>	ART-8A 2023 11 14 – FD	ART-9 2023 11 14 - EB
<b>IWF</b>	I-T 2023 11 13 – FD	I-U 2023 11 13 - EB
<b>AP5 Wells</b>	E12-1 2023 11 09 - FD	E2-2 2023 11 09 - EB

\*\*Per email from Emily Gilson dated 4/12/2017 – removed historical\_reference\_elev and water\_level\_elev data from 2017 Groundwater Sampling EDD

Field Forms changes	TWD will be marked with a “NM” not measured, unless a manual reading obtained. Manually record TWD in May
Monthly Table changes	Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18  Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott 7/19/2017
Sampling Changes	Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by Tetra Tech in November and May.

# WATER SAMPLING FIELD LOG

	Well: <b>1-AA</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° sunny</b>	

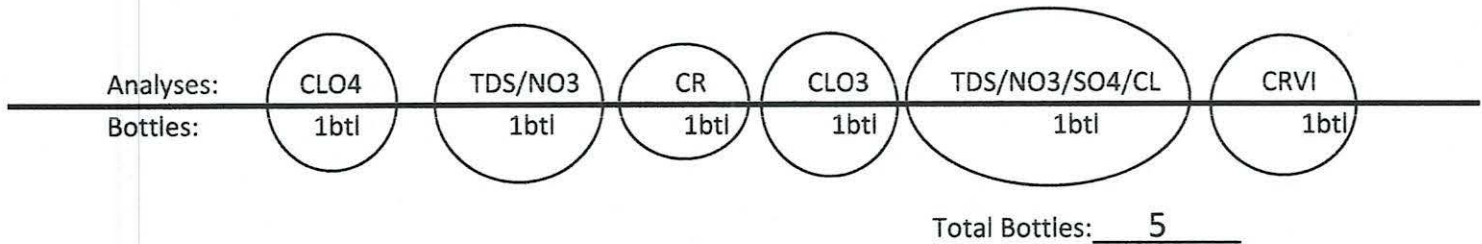
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0752</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>46.27</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/7/23</b>	Start Time: <b>0752</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0754</b>	<b>7.00</b> <small>pH</small>	<b>4.70</b> <small>mS/Cm</small>	<b>24.8</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0759</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-AB</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11 7 123</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° clear</b>	

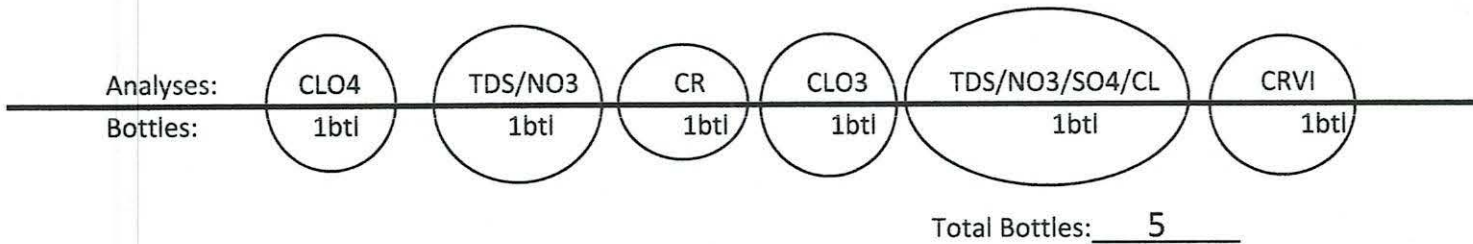
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11 7 123</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>35.48</b>	
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at <b>0801</b> , flowing at <b>4.17</b> gpm. Purged for <b>3</b> minutes, <b>2</b> minutes required per well purge spreadsheet. Turned well off at <b>0806</b> . <div style="text-align: right; color: blue; font-weight: bold;">@ 6.7 gpm</div>
--

<b>Field Measurements-</b>				Date: <b>11 7 123</b>	Start Time: <b>0800</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0803</b>	<b>7.31</b> <small>pH</small>	<b>4.90</b> <small>mS/Cm</small>	<b>24.6</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0806</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: 1-AC

Date(s): 11/13/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 61° sunny

DTW ONLY

**Well Depth Information-** Date: 11/13/23 Time: 0957

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 29.88  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

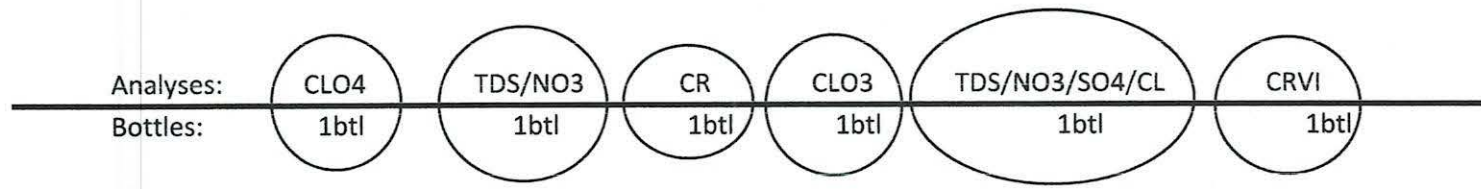
Turned pump on at 0959, flowing at 2.67 gpm. Purged for 9 minutes, 4 minutes required per well purge spreadsheet. Turned well off at 1009. @3.7 gpm

**Field Measurements-** Date: 11/13/23 Start Time: 0957

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1004</u>	<u>7.74</u> <small>pH</small>	<u>6.50</u> <small>mS/Cm</small>	<u>23.2</u> <small>°C</small>	

Sample Appearance: very pale yellow w/debris

Finish Time: 1009



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-AD

Date(s): 11 13 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 63° sunny

DTW ONLY

**Well Depth Information-** Date: 11 13 23 Time: 1010

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): 37.68\*  
 Manually Taken at Well  Taken at Control Panel

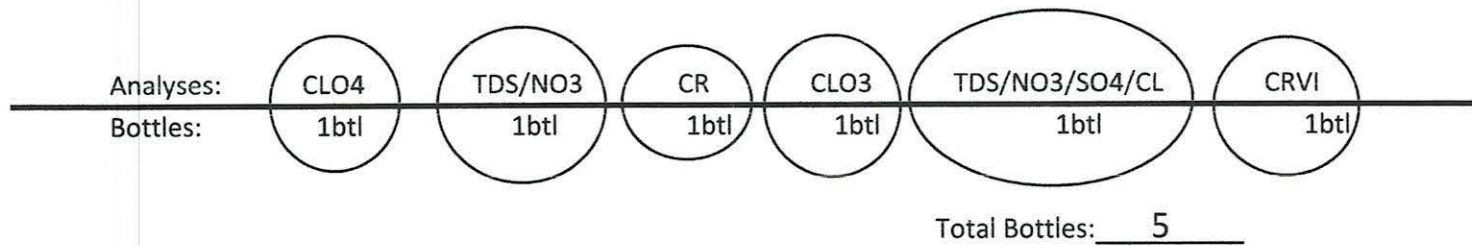
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 11 13 23 Start Time: 1010

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1012</u>	<u>7.65</u> <small>pH</small>	<u>6.50</u> <small>mS/Cm</small>	<u>27.3</u> <small>°C</small>	<u>*measured 2x</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>1015</u>				



DUP EC Reading	QC
 mS/Cm	 pH
 °C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-AR</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11 7 123</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 72°</b>	

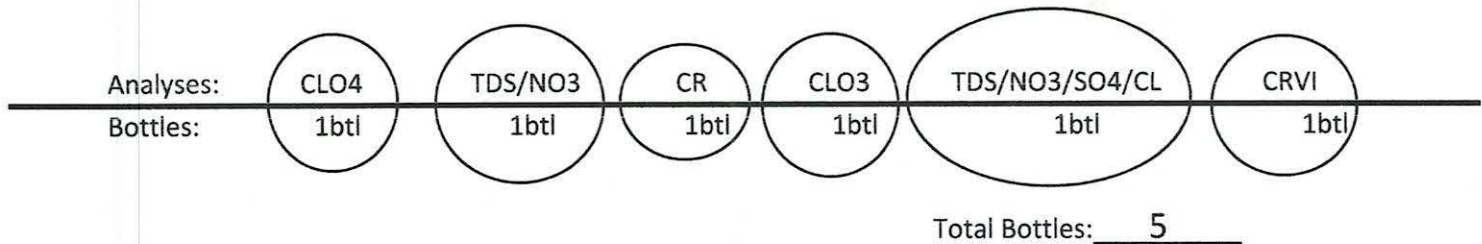
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11 7 123</b>	Time: <b>0847</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.89</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11 7 123</b>	Start Time: <b>0847</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0849</b>	<b>7.57</b> <small>pH</small>	<b>6.08</b> <small>mS/Cm</small>	<b>24.9</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0852</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>71° Sunny</b>	

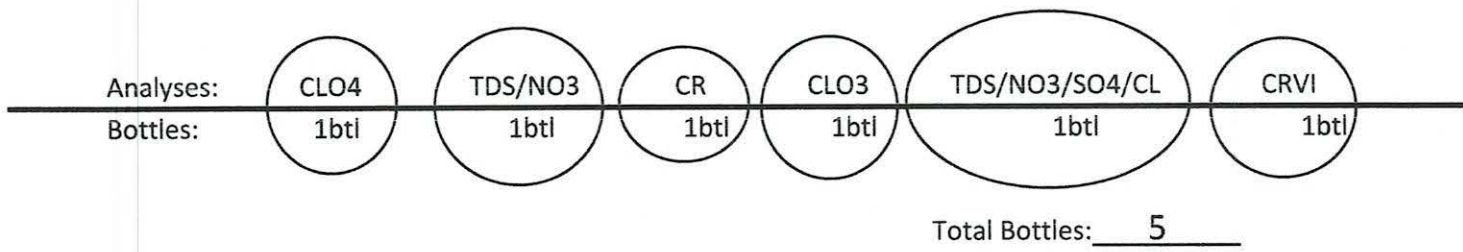
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0808</b>	
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>			
Depth to Water(ft): <b>42.90</b>			
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel			
Height of Water Column(ft):			

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/7/23</b>	Start Time: <b>0808</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0810</b>	<b>7.24</b> <small>pH</small>	<b>5.21</b> <small>mS/Cm</small>	<b>25.5</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0814</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-C</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° sunny</b>	

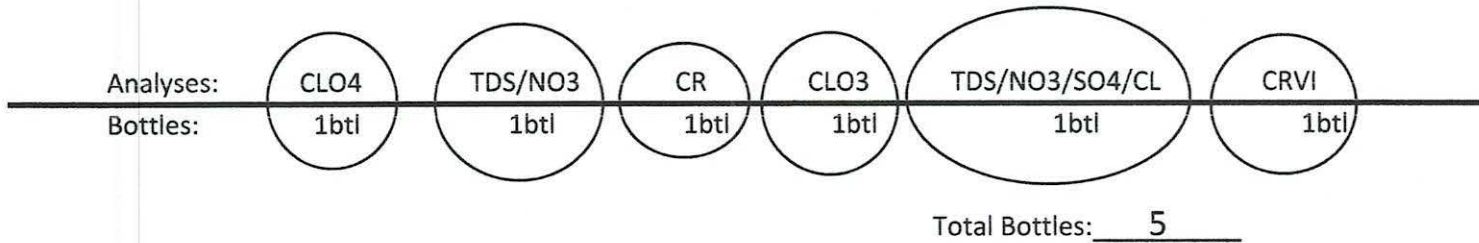
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0855</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>43.73</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/7/23</b>	Start Time: <b>0855</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0857</b>	<b>7.45</b> <small>pH</small>	<b>7.15</b> <small>mS/Cm</small>	<b>24.7</b> <small>°C</small>			
Sample Appearance: <b>pale yellow</b>						
Finish Time: <b>0902</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-D</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>73° Sunny</b>	

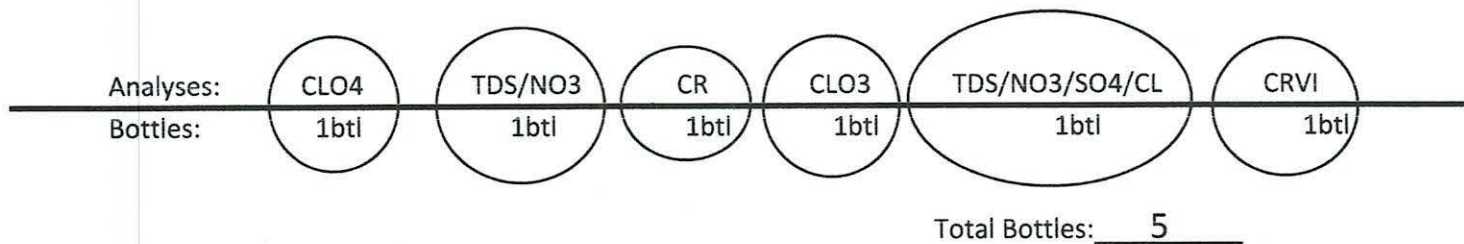
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0906</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.82*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/7/23</b>	Start Time: <b>0906</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0908</b>	<b>7.52</b> <small>pH</small>	<b>7.58</b> <small>mS/Cm</small>	<b>24.8</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance:		<b>pale yellow</b>				
Finish Time:		<b>0911</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-E</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/7/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>73° Sunny</u>	

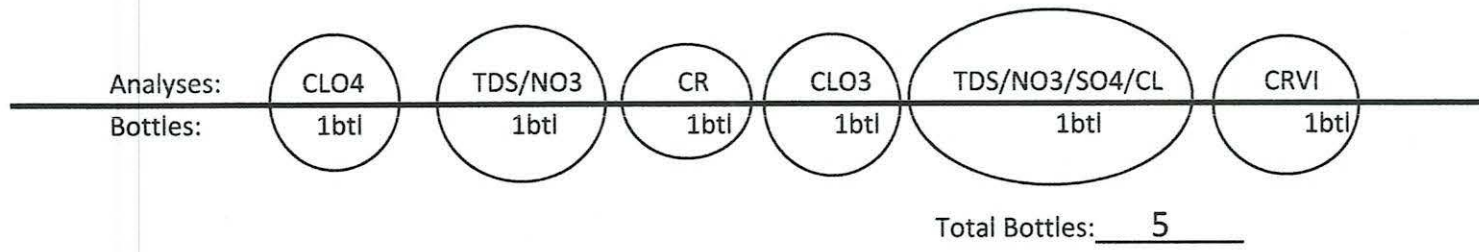
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/7/23</u>	Time: <u>0920</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>44.05*</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>11/7/23</u>	Start Time: <u>0920</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>0922</u>	<u>7.41</u> <small>pH</small>	<u>7.78</u> <small>mS/Cm</small>	<u>24.8</u> <small>°C</small>	<u>*measured 2x</u>		
Sample Appearance: <u>yellow</u>						
Finish Time: <u>0926</u>						



DUP EC Reading	QC
<u>7.80</u> <small>mS/Cm</small>	<u>7.03</u> <small>pH</small>
<u>24.9</u> <small>°C</small>	

## WATER SAMPLING FIELD LOG

	Well: <b>1-F</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>73° Sunny</b>	

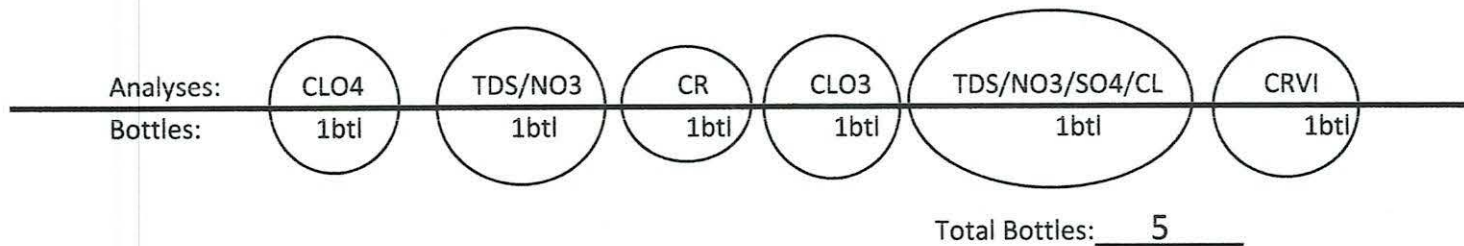
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0942</b>	
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>			
Depth to Water(ft): <b>41.04</b>			
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel			
Height of Water Column(ft):			

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/7/23</b>	Start Time: <b>0942</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0944</b>	<b>7.42</b> <small>pH</small>	<b>8.82</b> <small>mS/Cm</small>	<b>24.5</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0948</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-G</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>54° sunny</b>	

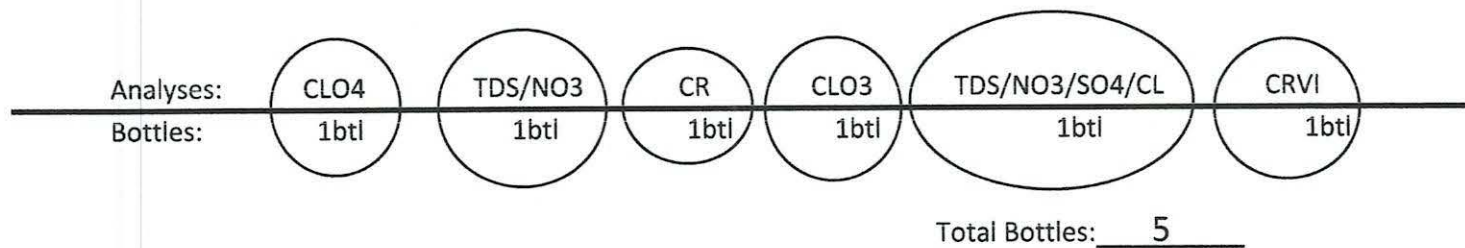
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0748</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>40.55</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0748</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0750</b>	<b>6.51</b> <small>pH</small>	<b>11.41</b> <small>mS/Cm</small>	<b>26.3</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0757</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-H</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 56°</b>	

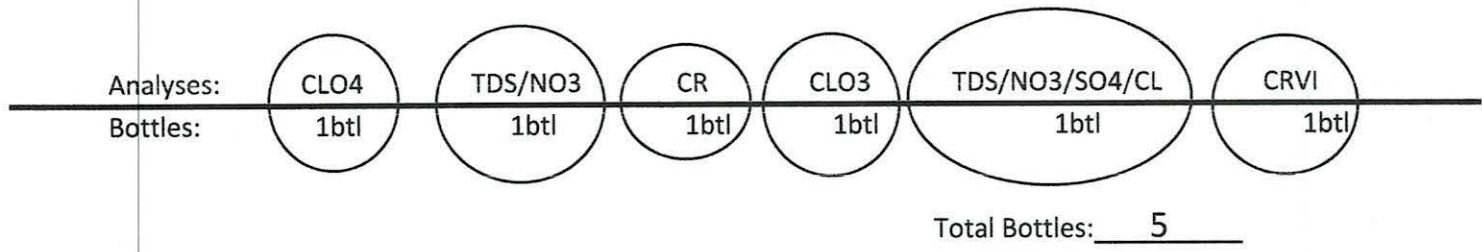
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0825</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>41.40</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0825</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0827</b>	<b>7.27</b> <small>pH</small>	<b>9.34</b> <small>mS/Cm</small>	<b>24.0</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0832</b>					



DUP EC Reading	QC
<b>9.37</b> <small>mS/Cm</small>	<b>7.00</b> <small>pH</small>
<b>24.0</b> <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <u>1-1</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/13/23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>61° sunny</u>	

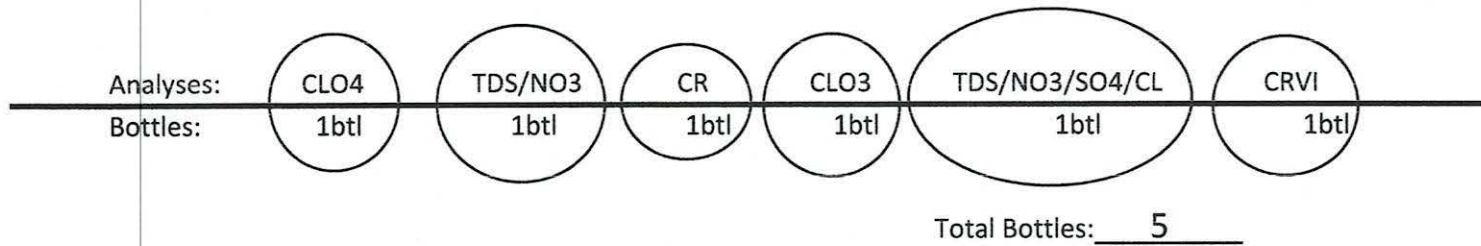
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/13/23</u>	Time: <u>0928</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>25.05</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>11/13/23</u>	Start Time: <u>0928</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0930</u>	<u>7.76</u> <small>pH</small>	<u>6.80</u> <small>mS/Cm</small>	<u>23.5</u> <small>°C</small>		
Sample Appearance: <u>pale yellow</u>					
Finish Time: <u>0934</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-J</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11 13 23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>61° sunny</b>	

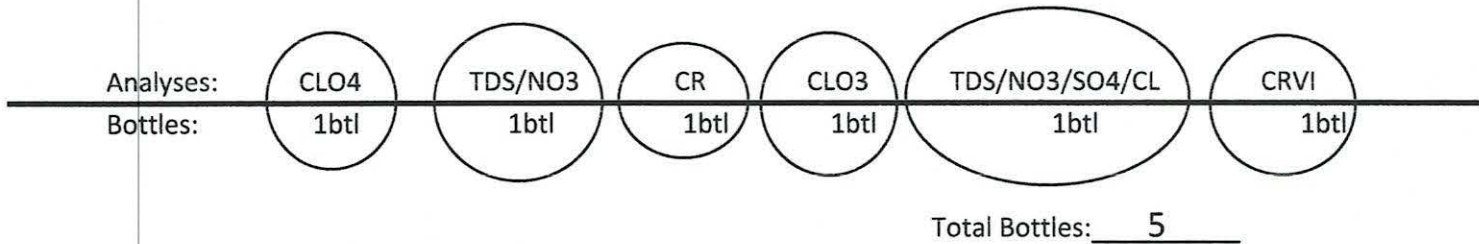
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11 13 23</b>	Time: <b>0942</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.13*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11 13 23</b>	Start Time: <b>0942</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0944</b>	<b>7.76</b> <small>pH</small>	<b>5.74</b> <small>mS/Cm</small>	<b>23.5</b> <small>°C</small>	<b>* measured 2x</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0948</b>					



DUP EC Reading	QC
<b>5.77</b> <small>mS/Cm</small>	<b>6.59</b> <small>pH</small>
<b>23.5</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <b>1-K</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>61° Sunny</b>	

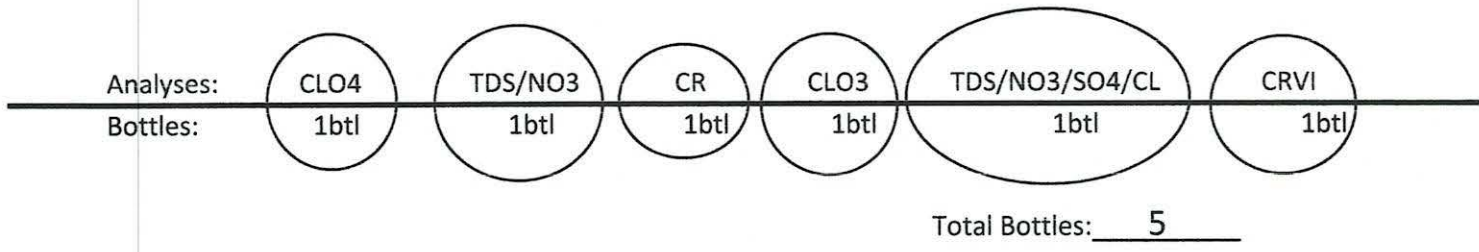
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0949</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>36.27</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0949</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0951</b>	<b>7.73</b> <small>pH</small>	<b>6.62</b> <small>mS/Cm</small>	<b>24.4</b> <small>°C</small>		
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0956</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <u>1-L</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>III 7 123</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>71° sunny</u>	

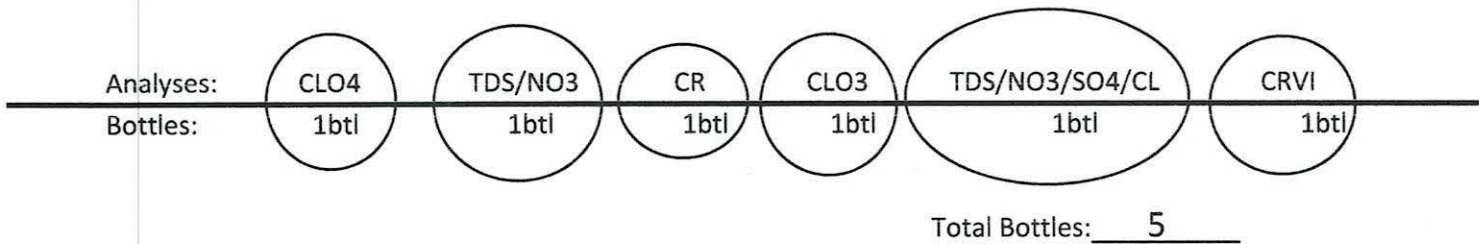
DTW ONLY

Well Depth Information-	Date: <u>III 7 123</u>	Time: <u>0830</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>37.10</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-				Date: <u>III 7 123</u>	Start Time: <u>0830</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0832</u>	<u>7.39</u> <small>pH</small>	<u>6.11</u> <small>mS/Cm</small>	<u>26.5</u> <small>°C</small>		
Sample Appearance: <u>pale yellow</u>					
Finish Time: <u>0836</u>					



DUP EC Reading	QC
<u>6.10</u> <small>mS/Cm</small>	<u>7.02</u> <small>pH</small>
<u>26.6</u> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <u>1-m</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/7/23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>73° sunny</u>	

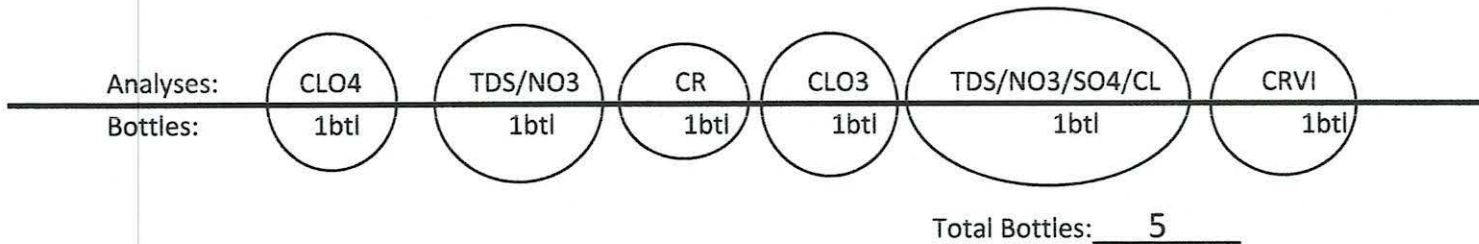
DTW ONLY

Well Depth Information-	Date: <u>11/7/23</u>	Time: <u>0912</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>36.60*</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-				Date: <u>11/7/23</u>	Start Time: <u>0912</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0914</u>	<u>7.48</u> <small>pH</small>	<u>7.94</u> <small>mS/Cm</small>	<u>24.3</u> <small>°C</small>	*measured 2x	
Sample Appearance: <u>yellow</u>					
Finish Time: <u>0919</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-n</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/7/23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>73° sunny</u>	

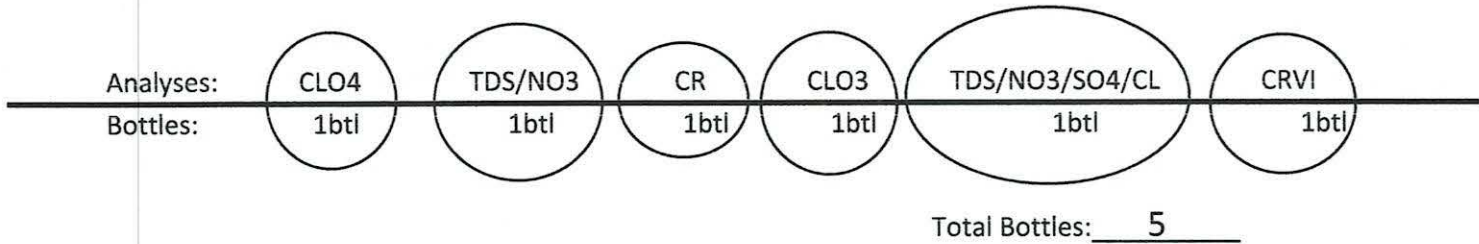
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/7/23</u>	Time: <u>0928</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<u>37.28*</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>11/7/23</u>	Start Time: <u>0928</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0930</u>	<u>7.41</u> <small>pH</small>	<u>7.94</u> <small>mS/Cm</small>	<u>24.8</u> <small>°C</small>	<u>* measured 2x</u>	
Sample Appearance: <u>yellow</u>					
Finish Time: <u>0933</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>1-0</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>56° sunny</b>	

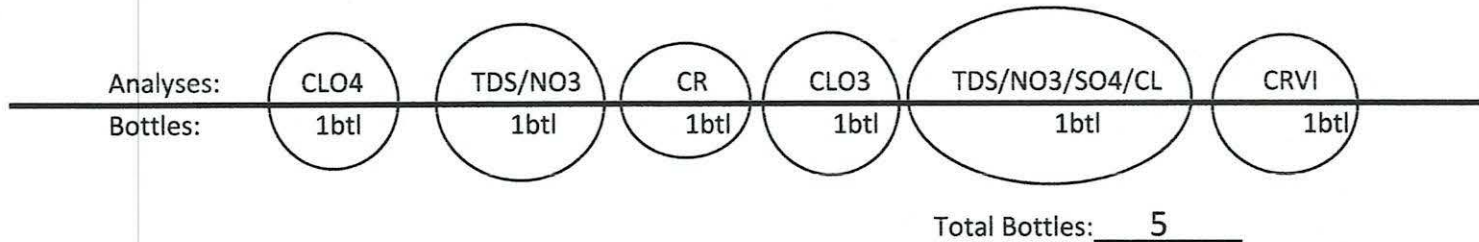
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0850</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>34.48*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0850</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0852</b>	<b>7.37</b> <small>pH</small>	<b>8.32</b> <small>mS/Cm</small>	<b>24.0</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0857</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>1-P</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/13/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>Sunny 56°</u>	

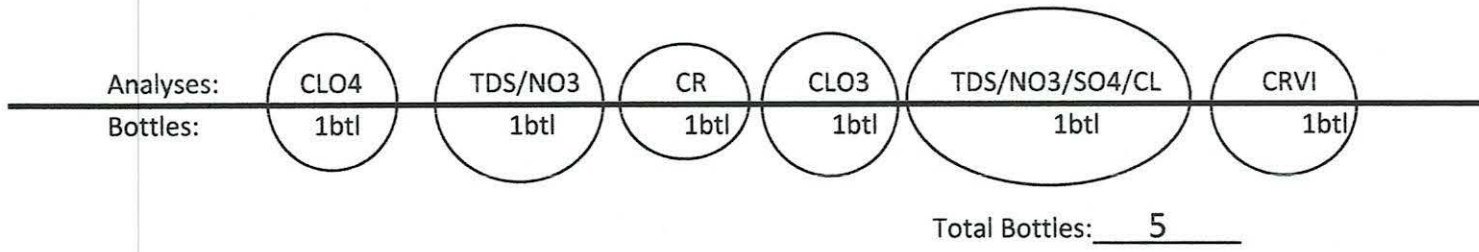
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/13/23</u>	Time: <u>0833</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<u>42.29*</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>11/13/23</u>	Start Time: <u>0835</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0836</u>	<u>7.33</u> <small>pH</small>	<u>8.4</u> <del>8.4</del> <u>65</u> <small>mS/Cm</small>	<u>23.2</u> <small>°C</small>	<u>*measured 2x</u>	
Sample Appearance: <u>bright yellow</u>					
Finish Time: <u>0842</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-Q</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>54° sunny</b>	

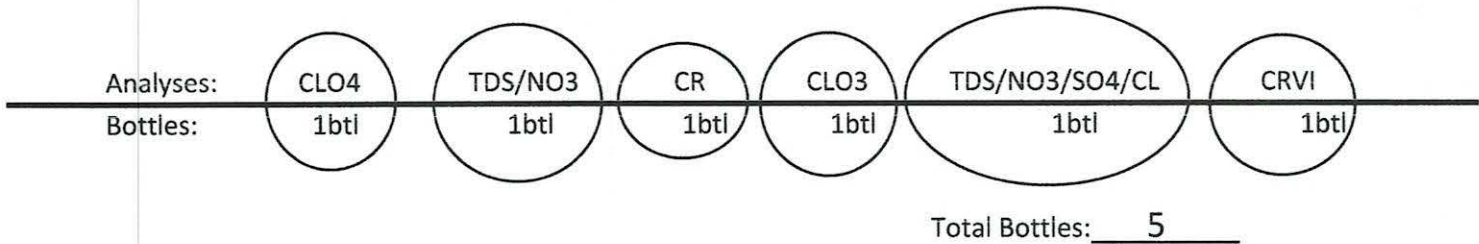
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>37.55</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0800</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0801</b>	<b>6.89</b> <small>pH</small>	<b>9.55</b> <small>mS/Cm</small>	<b>23.7</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0805</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11 7 123</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° Sunny</b>	

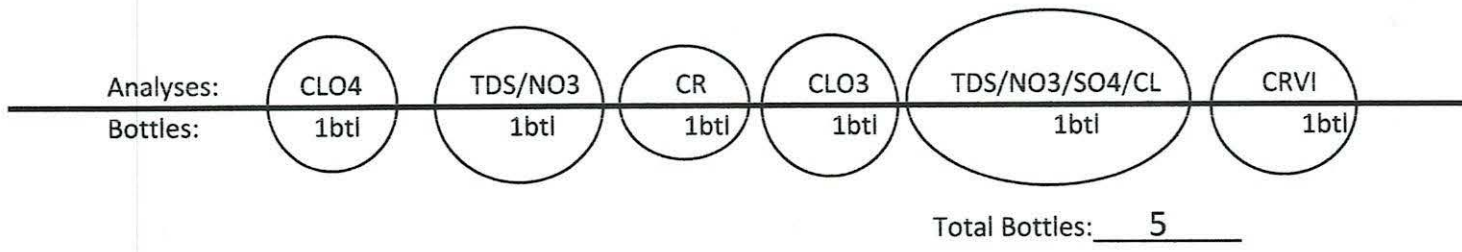
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11 7 123</b>	Time: <b>0815</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.12*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11 7 123</b>	Start Time: <b>0815</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
0816	7.37 <small>pH</small>	6.03 <small>mS/Cm</small>	25.4 <small>°C</small>	*Measured 2x	
Sample Appearance: <b>clear pale yellow</b>					
Finish Time: <b>0820</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-5</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° sunny</b>	

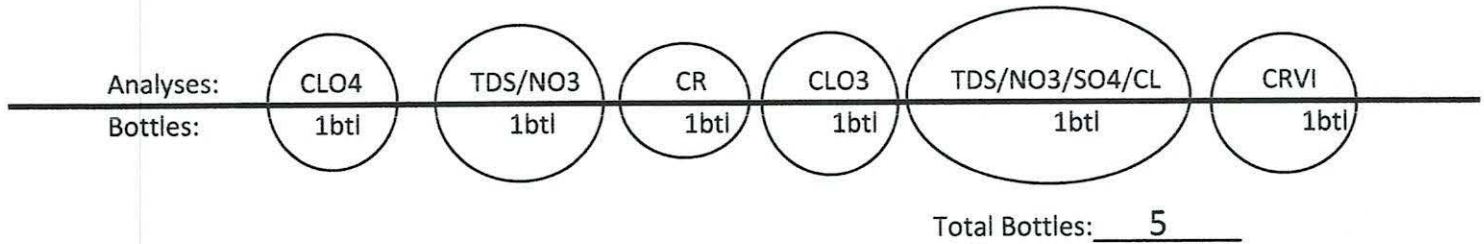
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0838</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.43*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/7/23</b>	Start Time: <b>0838</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0840</b>	<b>7.31</b> <small>pH</small>	<b>6.37</b> <small>mS/Cm</small>	<b>25.3</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0844</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-T</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11   13   23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>54° sunny</b>	

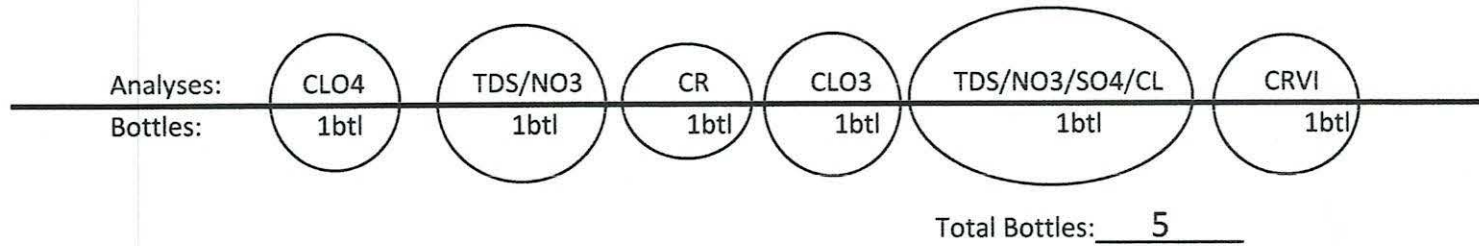
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11   13   23</b>	Time: <b>0806</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<b>43.39</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11   13   23</b>	Start Time: <b>0806</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0800</b>	<b>7.04</b> <small>pH</small>	<b>10.11</b> <small>mS/Cm</small>	<b>23.6</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0818</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

**1-T 2023 11 13 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.04  
 EC: 10.12  
 C: 23.5

# WATER SAMPLING FIELD LOG

	Well: <b>1-U</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>54° Sunny</b>	

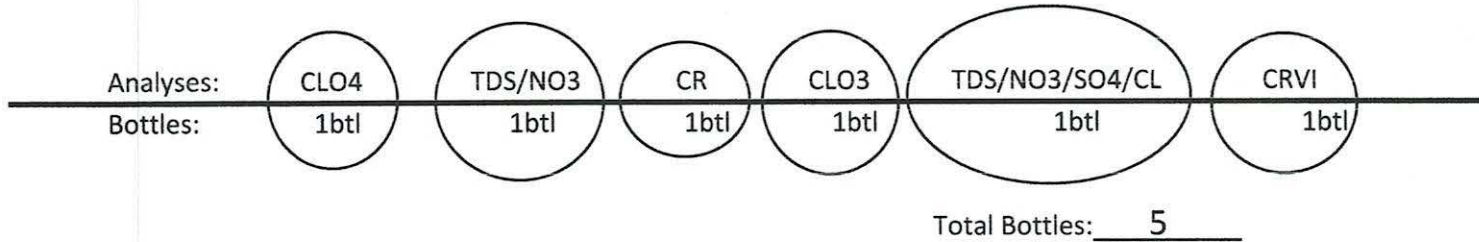
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0817</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>44.96</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0817</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0819</b>	<b>7.17</b> <small>pH</small>	<b>9.95</b> <small>mS/Cm</small>	<b>23.2</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0825</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

**1-U 2023 11 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 9.04  
 EC: 0.06  
 C: 17.0  
 Time: **0819**



# WATER SAMPLING FIELD LOG

	Well: <u>1-V</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/13/23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <del>DTW</del> <u>sunny 61°</u>	

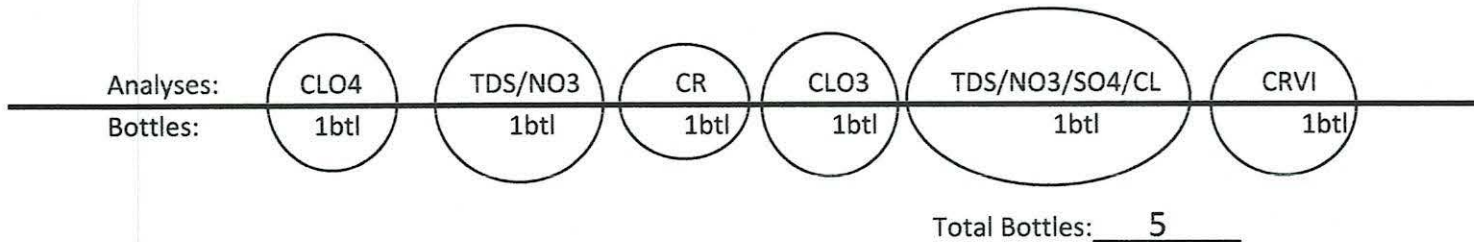
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/13/23</u>	Time: <u>0921</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>44.53*</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <u>11/13/23</u>	Start Time: <u>0921</u>	
Sample Time	pH	EC/MC	Temp	Well Observations
<u>0923</u>	<u>7.69</u> <small>pH</small>	<u>6.87</u> <small>mS/Cm</small>	<u>24.0</u> <small>°C</small>	<u>*measured 2x</u>
Sample Appearance: <u>bright yellow</u>				
Finish Time: <u>0927</u>				



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-W</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/13/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>56° sunny</b>	

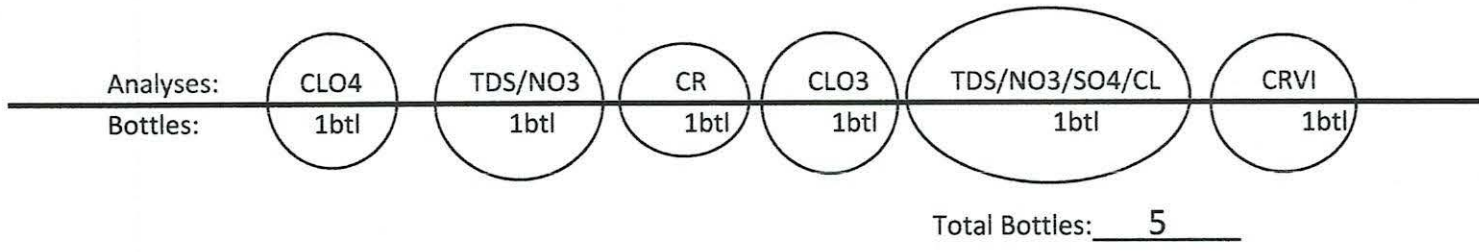
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/13/23</b>	Time: <b>0843</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>50.00 *</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/13/23</b>	Start Time: <b>0843</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0845</b>	<b>7.41</b> <small>pH</small>	<b>8.12</b> <small>mS/Cm</small>	<b>25.3</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>0849</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <u>1-X</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/7/23</u>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>73° sunny</u>	

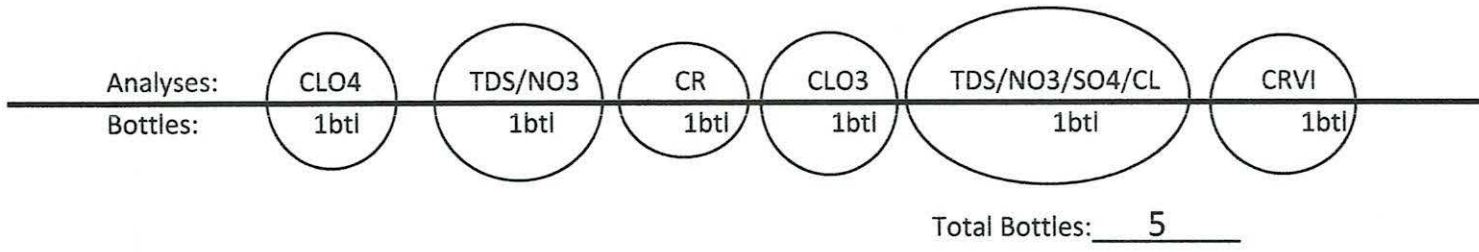
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/7/23</u>	Time: <u>0934</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>48.32*</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>11/7/23</u>	Start Time: <u>0934</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0936</u>	<u>7.58</u> <small>pH</small>	<u>8.70</u> <small>mS/Cm</small>	<u>24.0</u> <small>°C</small>	<u>*measured 2x</u>	
Sample Appearance: <u>yellow</u>					
Finish Time: <u>0940</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>71° Sunny</b>	

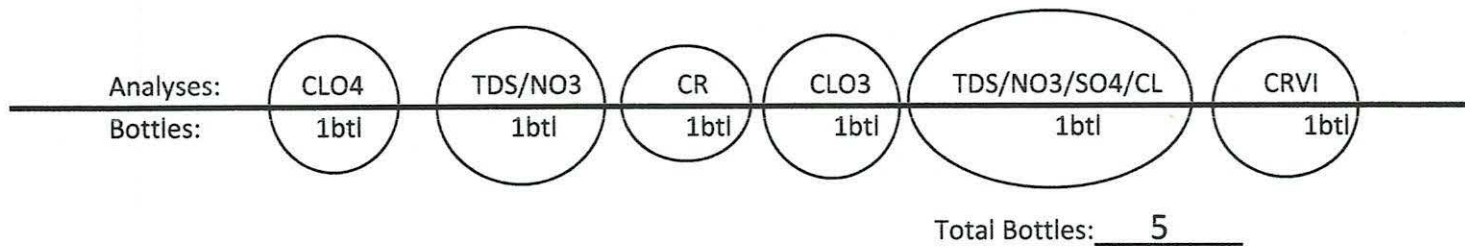
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/7/23</b>	Time: <b>0822</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>50.80*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>11/7/23</b>	Start Time: <b>0822</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0824</b>	<b>7.17</b> <small>pH</small>	<b>6.19</b> <small>mS/Cm</small>	<b>26.0</b> <small>°C</small>	<b>*measured 2x</b>
Sample Appearance: <b>pale yellow</b>				
Finish Time: <b>0829</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <u>1-2</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11 13 23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>61° sunny</u>	

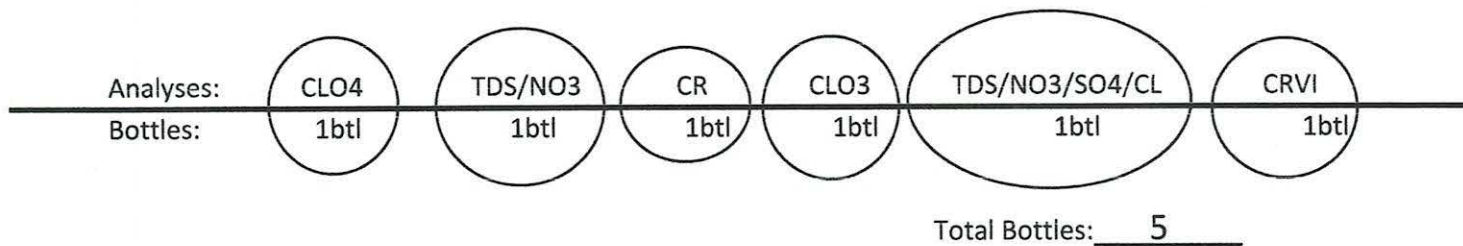
DTW ONLY

Well Depth Information-	Date: <u>11 13 23</u>	Time: <u>0935</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>33.69</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-				Date: <u>11 13 23</u>	Start Time: <u>0935</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>0937</u>	<u>7.92</u> <small>pH</small>	<u>5.20</u> <small>mS/Cm</small>	<u>22.9</u> <small>°C</small>		
Sample Appearance: <u>pale yellow</u>					
Finish Time: <u>0941</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Project/Site: NERT Project - Henderson Nevada	Well: <b>ART-1</b>
Sampling Team: Emily McGuire	Date(s): <b>11   14   23</b>
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>59° Sunny</b>	

DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11   14   23</b>	Time: <b>0854</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>25.56*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date:	Start Time:
Sample Time	pH	EC/MC	Temp	Well Observations	
	pH	mS/Cm	°C	* Measured <del>2x</del>	
Sample Appearance:					
Finish Time:					

Analyses:	CLO4	TDS/NO3	CR	CLO3	TDS/NO3/SO4/CL	CRVI
Bottles:	1btl	1btl	1btl	1btl	1btl	1btl
Total Bottles: <u>  5  </u>						

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-1A**

Date(s): **11/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **Sunny 59°**

DTW ONLY

**Well Depth Information-** Date: **11/14/23** Time: **0853**

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): **26.56\***  
 Manually Taken at Well  Taken at Control Panel

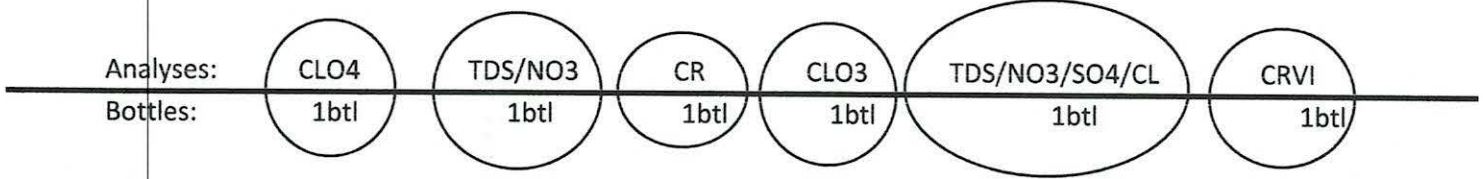
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **11/14/23** Start Time: **0911**

Sample Time	pH	EC/MC	Temp	Well Observations
0912	6.73 <small>pH</small>	6.29 <small>mS/Cm</small>	24.1 <small>°C</small>	*measured 2x
Sample Appearance: <b>clear</b>				
Finish Time: <b>0915</b>				



Total Bottles: 5

DUP EC Reading	QC
 mS/Cm	 pH
 °C	



## WATER SAMPLING FIELD LOG

Well: **ART-2\***

Project/Site: NERT Project - Henderson Nevada      Date(s): **11/14/23**

Sampling Team: Emily McGuire

Sampling Method:       Collected From Sample Port       Hand Bailed due to well Location

Weather Conditions: **59° Sunny**

DTW ONLY

**Well Depth Information-**      Date: **11/14/23**      Time: **0851**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **28.75**  
 Manually Taken at Well       Taken at Control Panel

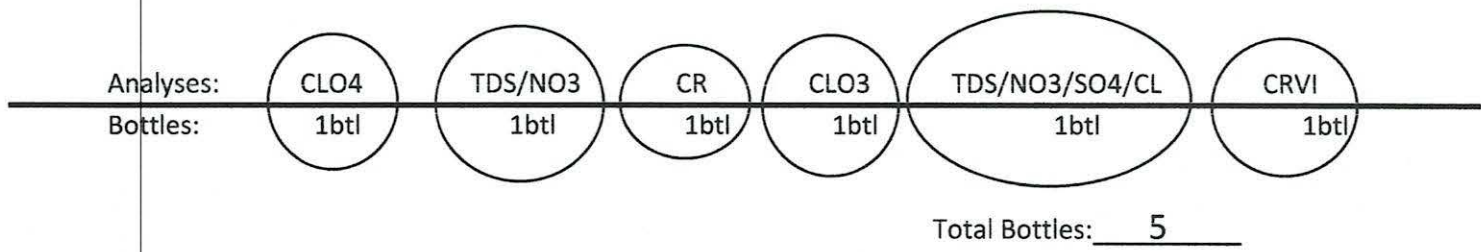
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-**      Date: **11/14/23**      Start Time: **0915**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0916</b>	<b>6.90</b> <small>pH</small>	<b>12.27</b> <small>mS/Cm</small>	<b>24.7</b> <small>°C</small>	*ART-2 and ART-2A running concurrently, bottles labeled ART-2/2A 2023 11 __.
Sample Appearance: <b>clear</b>				
Finish Time: <b>0920</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-2A*</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>59° sunny</b>	

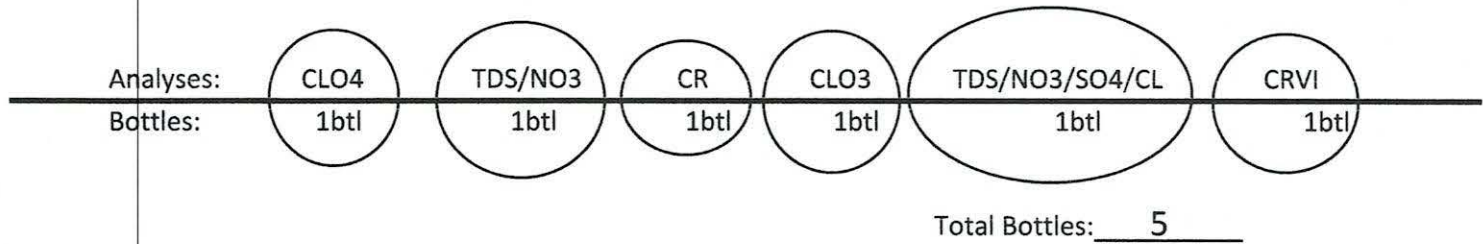
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0850</b>
Total Well Depth(ft): NM <small>(‘NM’) - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<b>29.77**</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time:
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>See ART-2</b>	pH	mS/Cm	°C	*ART-2 and ART-2A running concurrently, bottles labeled ART-212A 2023 11 14. ** measured 2x	
Sample Appearance:					
Finish Time:					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>59° Sunny</b>	

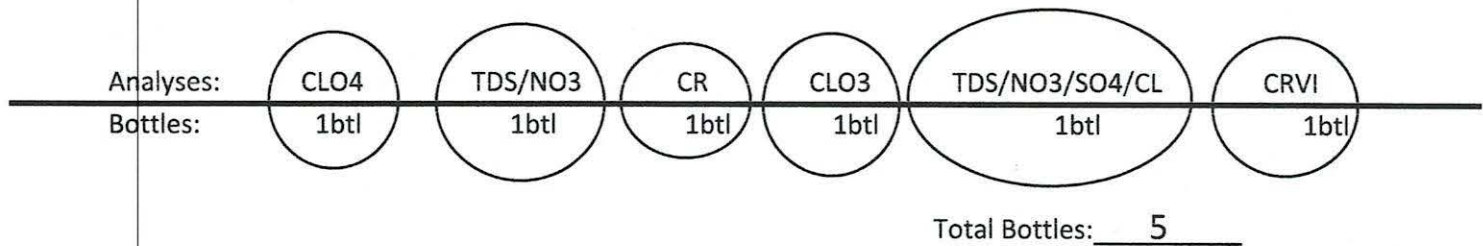
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0845</b>
Total Well Depth(ft): NM <small>(NM) - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>31.74</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<del><b>Field Measurements-</b></del>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-3A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>59° Sunny</b>	

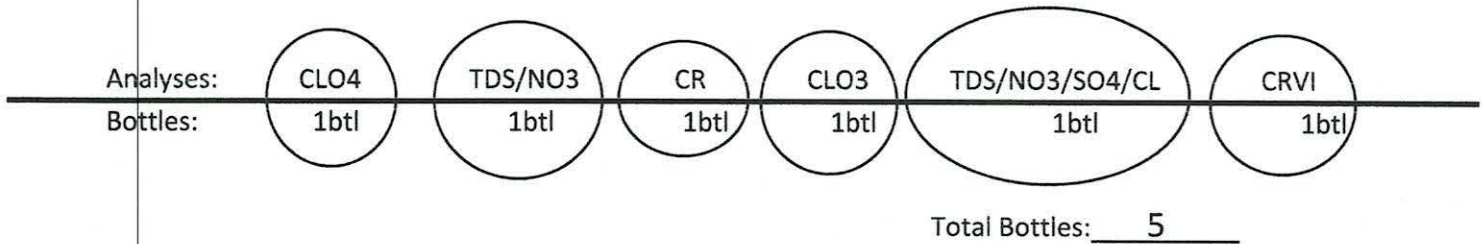
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0846</b>
Total Well Depth(ft): NM <small>(‘NM’) - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<b>38.01*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/14/23</b>	Start Time: <b>0921</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0922</b>	<b>7.03</b> <small>pH</small>	<b>10.83</b> <small>mS/Cm</small>	<b>24.3</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0926</b>						



DUP EC Reading	QC
<b>10.83</b> <small>mS/Cm</small>	<b>7.04</b> <small>pH</small>
<b>24.5</b> <small>°C</small>	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>59° Sunny</b>	

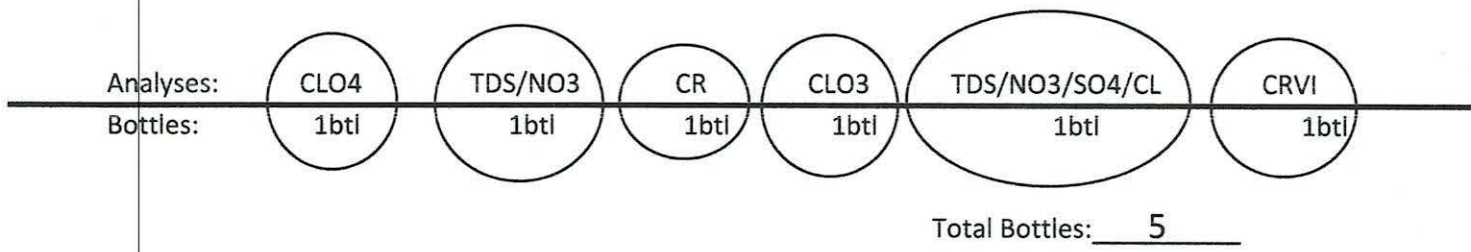
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0842</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>33.81*</b>		
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>0927</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0928</b>	<b>7.32</b> <small>pH</small>	<b>7.10</b> <small>mS/Cm</small>	<b>24.2</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0931</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-4A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>590 sunny</b>	

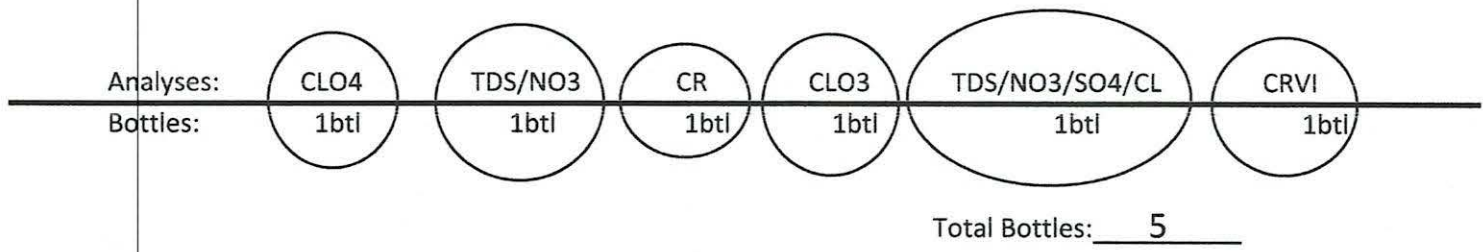
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0843</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>40.12*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date:	Start Time:
<del>Sample Time</del>	<del>pH</del>	<del>EC/MC</del>	<del>Temp</del>	Well Observations <b>*measured 2x</b>	
	pH	mS/Cm	°C		
Sample Appearance:					
Finish Time:					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-7A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 61°</b>	

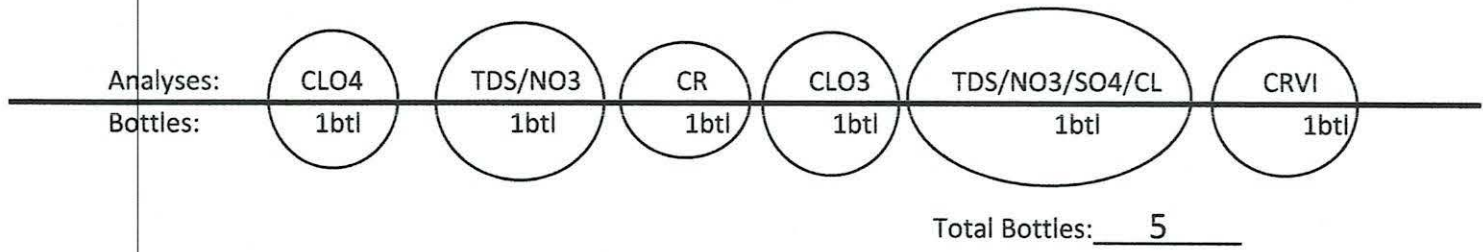
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0834</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>29.13</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/14/23</b>	Start Time: <b>0932</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0933</b>	<b>7.29</b> <small>pH</small>	<b>8.71</b> <small>mS/Cm</small>	<b>23.9</b> <small>°C</small>			
Sample Appearance: <b>clear</b>						
Finish Time: <b>0935</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-7B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>61° Sunny</b>	

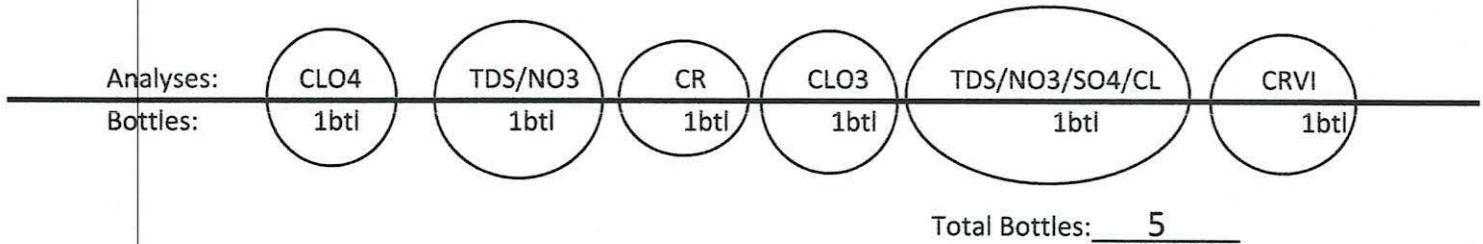
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0831</b>
Total Well Depth(ft): NM <small>(‘NM’) - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>28.29*</b>		
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
				<b>*measured 1x</b>
	<small>pH</small>	<small>mS/Cm</small>	<small>°C</small>	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>ART-8</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>N/A</b> <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions:	

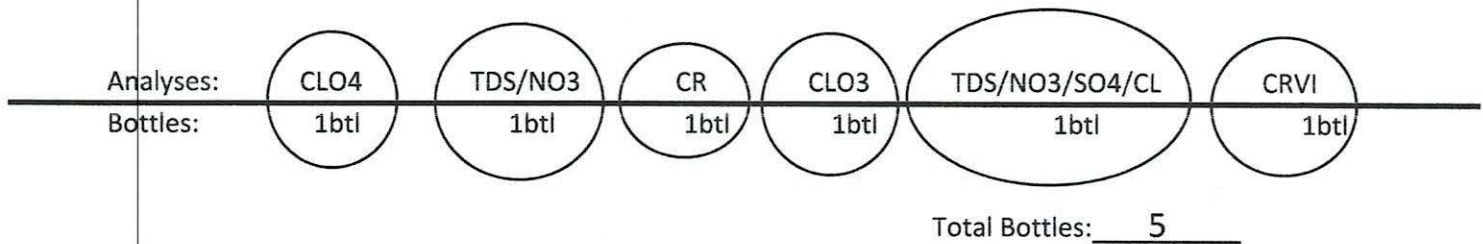
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0849</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>30.53</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-8A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>61° Sunny</b>	

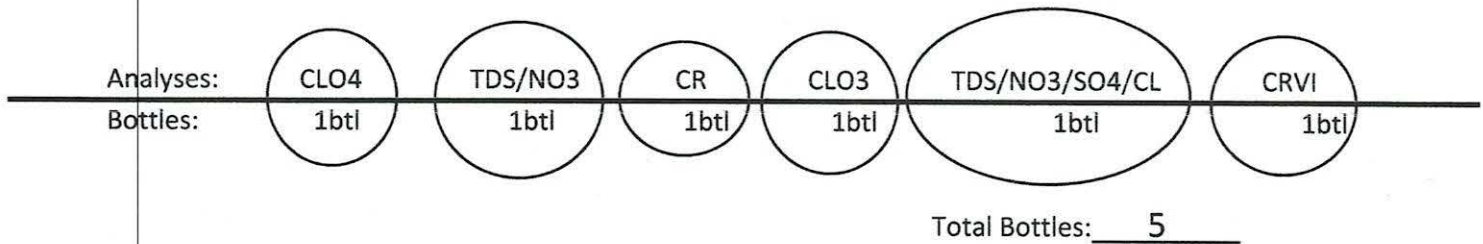
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0848</b>	
Total Well Depth(ft): NM <small>(‘NM’) - No measurement taken, manually measured annually)</small>			
Depth to Water(ft): <b>37.63*</b>			
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel			
Height of Water Column(ft):			

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/14/23</b>	Start Time: <b>0936</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0937</b>	<b>7.23</b> <small>pH</small>	<b>12.60</b> <small>mS/Cm</small>	<b>23.4</b> <small>°C</small>	<b>* measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0943</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

**ART-8A 2023 11/14 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.19  
 EC: 12.59  
 C: 23.5

# WATER SAMPLING FIELD LOG

	Well: <b>ART-9</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 62°</b>	

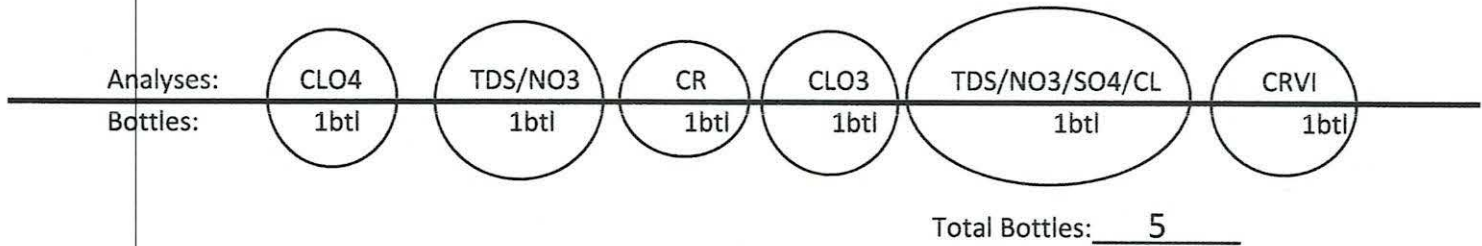
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0836</b>
Total Well Depth(ft): NM <small>(NM) - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>28.28*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/14/23</b>	Start Time: <b>0945</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0946</b>	<b>7.30</b> <small>pH</small>	<b>7.20</b> <small>mS/Cm</small>	<b>24.4</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>clear</b>						
Finish Time: <b>0951</b>						



DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	

**ART-9 2023 11 14 - EB**  
 Collected for the same analysis before moving on to the next well.  
 pH: 8.32  
 EC: 0.11  
 C: 17.6  
 Time: 0949



# WATER SAMPLING FIELD LOG

	Well: <b>PC-150</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11   14   23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>61° Sunny</b>	

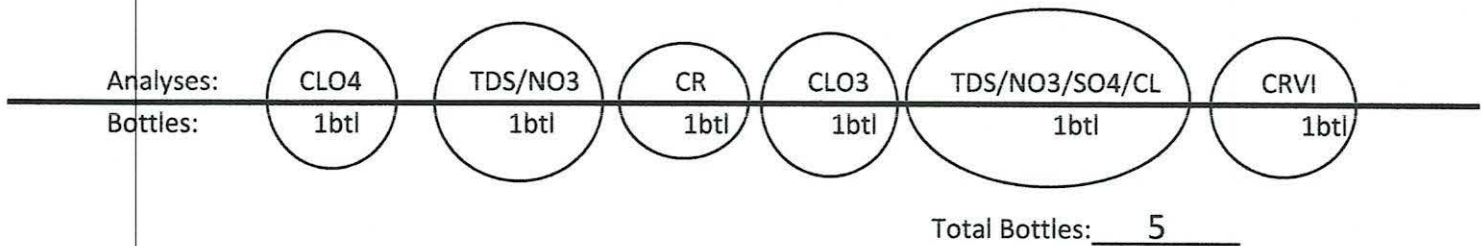
DTW ONLY

Well Depth Information-	Date: <b>11   14   23</b>	Time: <b>0838</b>
Total Well Depth(ft): NM <small>(NM) - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>37.68</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-	Date: <b>11   14   23</b>	Start Time: <b>0952</b>		
Sample Time	pH	EC/MC	Temp	Well Observations
<b>0953</b>	<b>7.33</b> <small>pH</small>	<b>6.68</b> <small>mS/Cm</small>	<b>24.9</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>0957</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-09 R2/R3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11   14   23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>sunny 67°</b>	

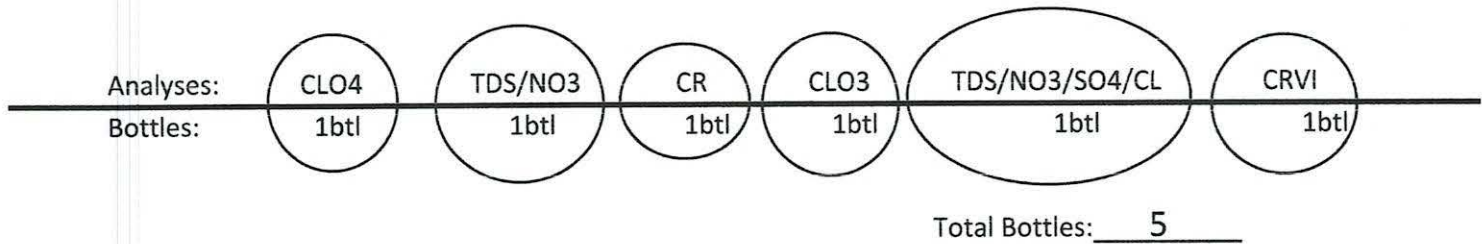
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11   14   23</b>	Time: <b>0630</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>11.04</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11   14   23</b>	Start Time: <b>1017</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1018</b>	<b>7.54</b> <small>pH</small>	<b>3.47</b> <small>mS/Cm</small>	<b>23.0</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1021</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: **PC-115R**

Date(s): **11/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **Sunny 67°**

DTW ONLY

**Well Depth Information-** Date: **11/14/23** Time: **0757**

Total Well Depth(ft): NM  
(NM) - No measurement taken, manually measured annually

Depth to Water(ft): **7.63\***  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

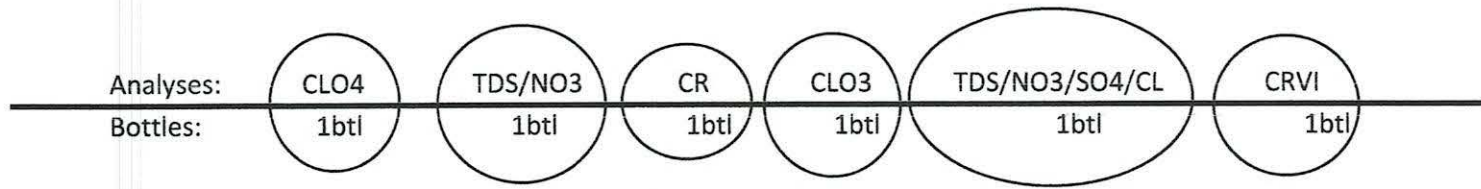
Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **11/14/23** Start Time: **1022**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1023</b>	<b>7.55</b> <small>pH</small>	<b>3.00</b> <small>mS/Cm</small>	<b>22.5</b> <small>°C</small>	<b>* Measured 1x</b>

Sample Appearance: **clear**

Finish Time: **1026**



Total Bottles: 5

DUP EC Reading	QC
 mS/Cm	 pH
 °C	



## WATER SAMPLING FIELD LOG

	Well: <b>PC-116R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>67° Sunny</b>	

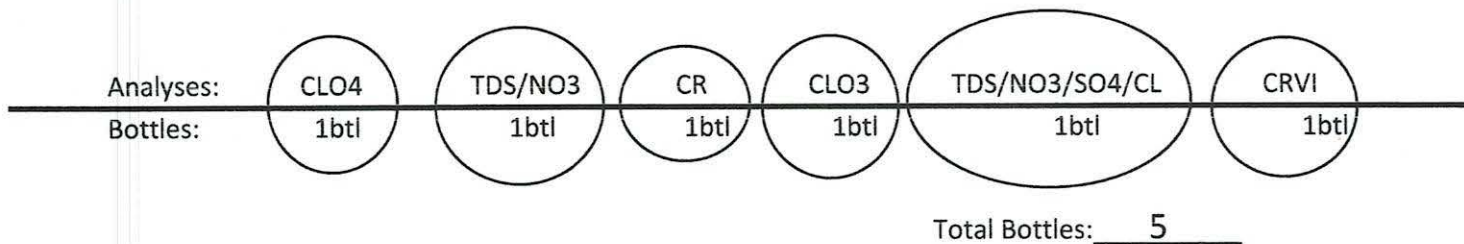
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0750</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>10.72*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>1026</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1027</b>	<b>7.46</b> <small>pH</small>	<b>3.66</b> <small>mS/Cm</small>	<b>22.6</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>1030</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>PC-117</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>67° Sunny</b>	

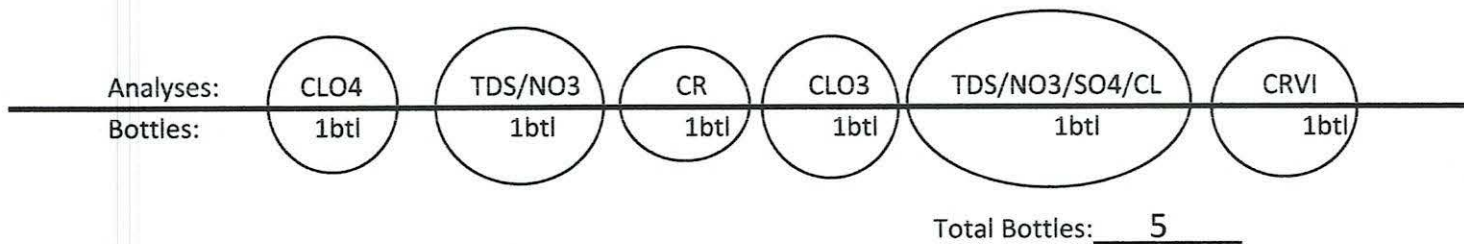
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0753</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>14.82*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>1030</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1031</b>	<b>7.46</b> <small>pH</small>	<b>3.55</b> <small>mS/Cm</small>	<b>21.8</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>1034</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>PC-118</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>67° Sunny</b>	

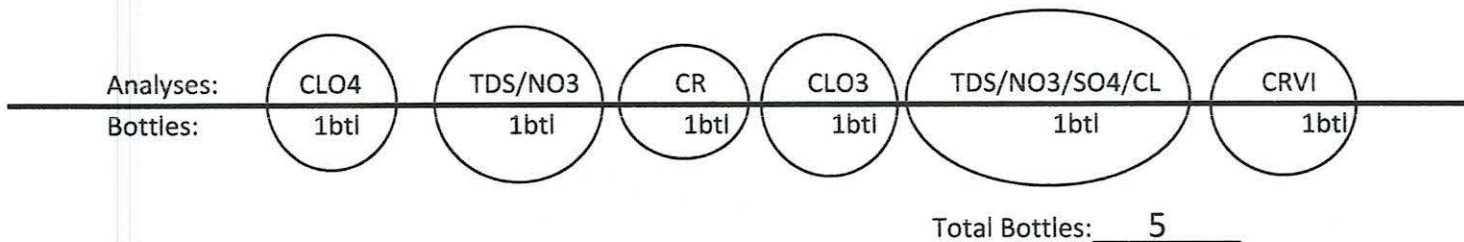
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>3.82*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>1034</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1035</b>	<b>7.48</b> <small>pH</small>	<b>3.24</b> <small>mS/Cm</small>	<b>21.9</b> <small>°C</small>	<b>* Measured 2x</b>	
Sample Appearance: <b>Clear</b>					
Finish Time: <b>1038</b>					



DUP EC Reading	QC
<b>3.26</b> <small>mS/Cm</small>	<b>7.03</b> <small>pH</small>
<b>21.9</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-119</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>67° sunny</b>	

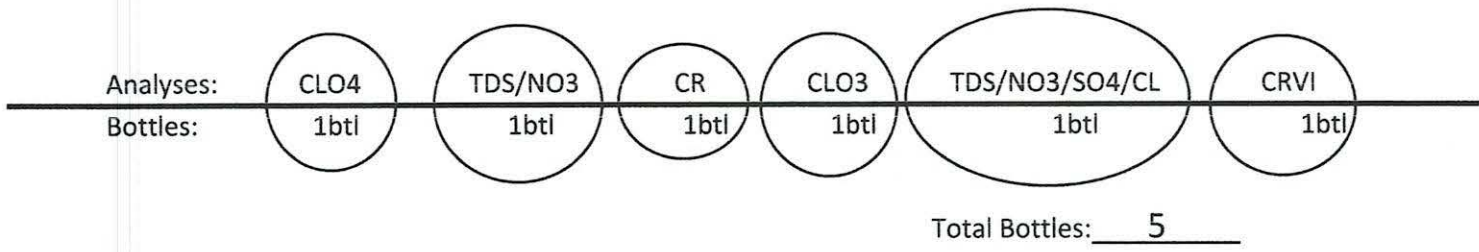
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0803</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>2.82*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>11/14/23</b>	Start Time: <b>1038</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
1039	7.49 <small>pH</small>	3.21 <small>mS/Cm</small>	21.1 <small>°C</small>	* measured 2x		
Sample Appearance: <b>clear</b>						
Finish Time: <b>1042</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-120</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 68°</b>	

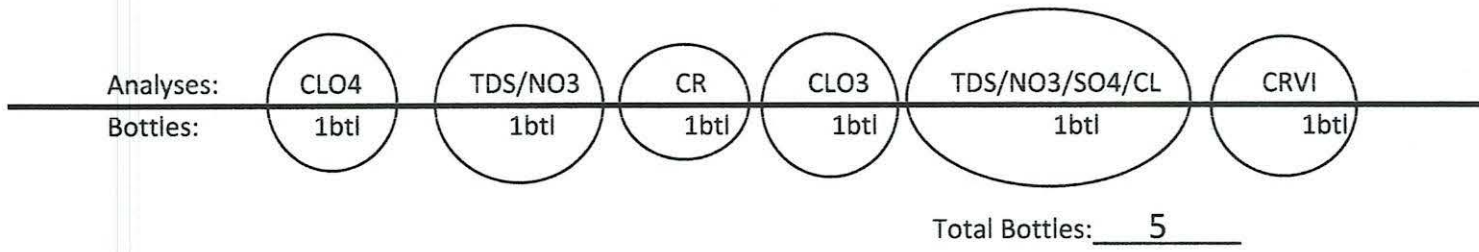
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>1.55*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>1042</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1043</b>	<b>7.43</b> <small>pH</small>	<b>2.91</b> <small>mS/Cm</small>	<b>20.6</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance:		<b>clear</b>			
Finish Time:		<b>1046</b>			



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>PC-121</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>Sunny 68°</b>	

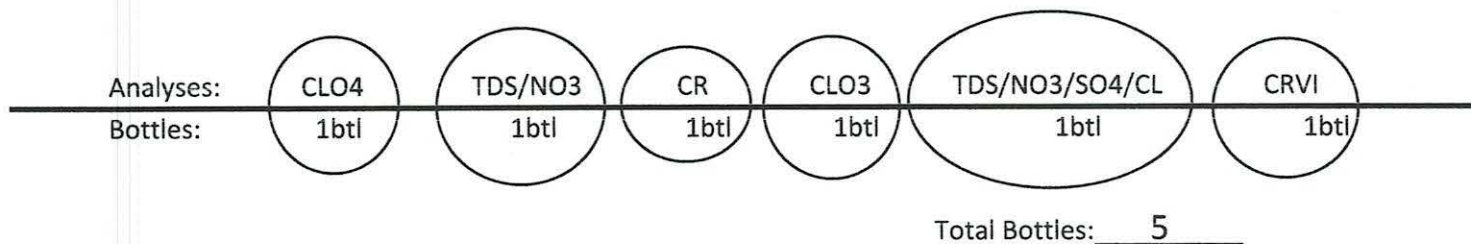
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0811</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>0.89*</b>		
<input type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>1046</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1047</b>	<b>7.45</b> <small>pH</small>	<b>2.71</b> <small>mS/Cm</small>	<b>20.2</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>1052</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

**PC-121 2023 11 14 -FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.45  
 EC: 2.67  
 C: 20.2



# WATER SAMPLING FIELD LOG

	Well: <b>PC-133</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>68° Sunny</b>	

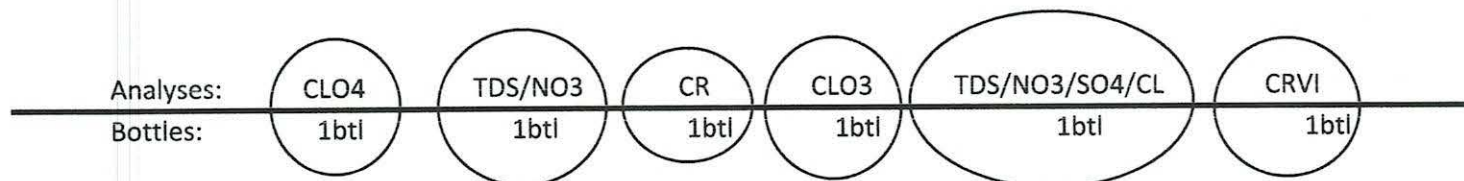
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/14/23</b>	Time: <b>0810</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>23.09</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/14/23</b>	Start Time: <b>1052</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1053</b>	<b>7.32</b> <small>pH</small>	<b>3.76</b> <small>mS/Cm</small>	<b>21.2</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1059</b>					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

PC-133 2023 11 14 - EB  
 Collected for the same analysis  
 be moving on to the next well.  
 pH: 8.40  
 EC: 0.11  
 C: 17.9  
 Time: 1056



# WATER SAMPLING FIELD LOG

	Well: <u>E1-1</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>111 9 23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny 61°</u>	

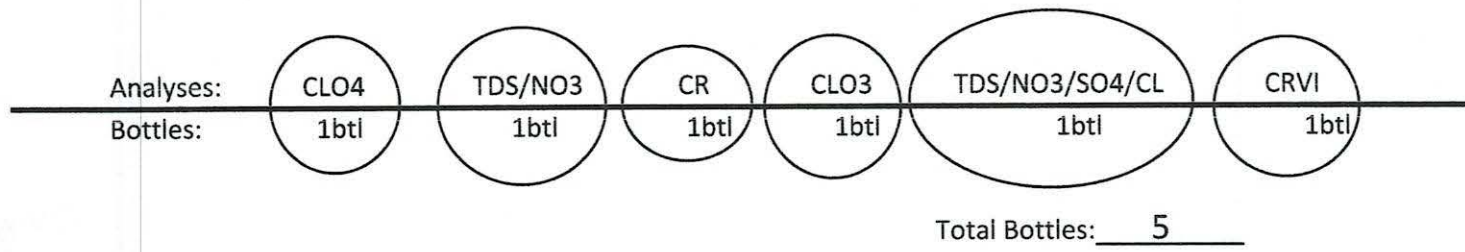
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>111 9 23</u>	Time: <u>1027</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>36.45</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>111 9 23</u>	Start Time: <u>1032</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>1033</u>	<u>6.55</u> <small>pH</small>	<u>5.02</u> <small>mS/Cm</small>	<u>23.1</u> <small>°C</small>		
Sample Appearance: <u>clear</u>					
Finish Time: <u>1037</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>21-2</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/9/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>61° Sunny</b>	

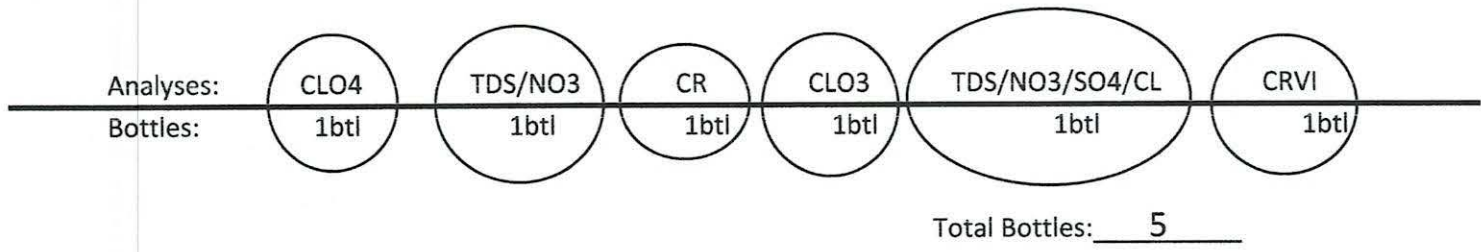
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/9/23</b>	Time: <b>1025</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>44.91</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/9/23</b>	Start Time: <b>1038</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1039</b>	<b>6.79</b> <small>pH</small>	<b>6.69</b> <small>mS/Cm</small>	<b>24.4</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1044</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>E1-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/9/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>61° Sunny</b>	

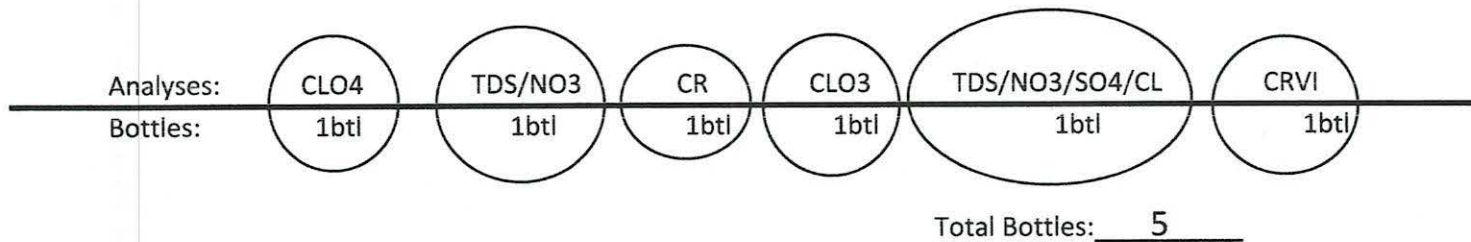
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/9/23</b>	Time: <b>1023</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>44.46</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/9/23</b>	Start Time: <b>1044</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1045</b>	<b>7.05</b> <small>pH</small>	<b>6.01</b> <small>mS/Cm</small>	<b>24.9</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1049</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <u>EZ-1</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/9/23</u>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>Sunny 64°</u>	

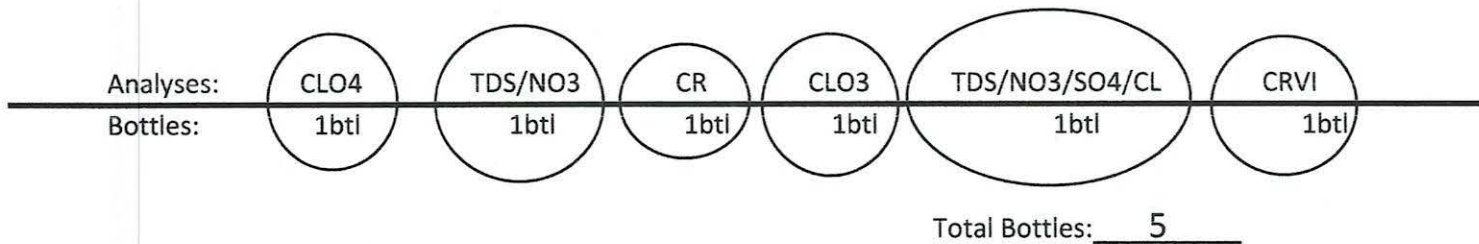
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/9/23</u>	Time: <u>1058</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>40.63</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <u>11/9/23</u>	Start Time: <u>1111</u>
Sample Time	pH	EC/MC	Temp	Well Observations		
<u>1112</u>	<u>7.44</u> <small>pH</small>	<u>3.81</u> <small>mS/Cm</small>	<u>24.7</u> <small>°C</small>			
Sample Appearance: <u>clear</u>						
Finish Time: <u>1118</u>						



DUP EC Reading	QC
mS/Cm	pH
°C	

EZ-1 2023 11 09 - FD

Collected at the same time for the same analysis before moving on to the next well.

pH: 7.46  
EC: 3.80  
C: 25.2

# WATER SAMPLING FIELD LOG

	Well: <u>ΕΖ-2</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/9/23</u>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <u>64° sunny</u>	

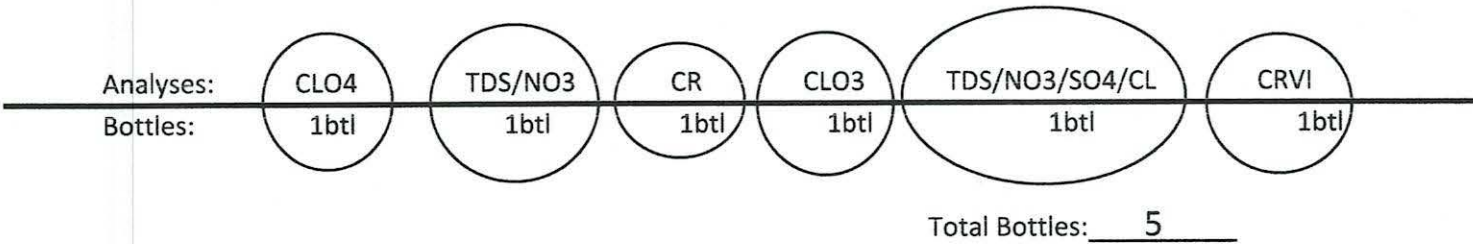
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/9/23</u>	Time: <u>1102</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <u>49.71</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>11/9/23</u>	Start Time: <u>1124</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>1125</u>	<u>7.39</u> <small>pH</small>	<u>4.34</u> <small>mS/Cm</small>	<u>24.3</u> <small>°C</small>		
Sample Appearance: <u>clear</u>					
Finish Time: <u>1132</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	

ΕΖ-2 2023 11 09 - ΕΒ

Collected for the same analysis before moving on to the next well.

pH: 8.11  
EC: 0.08  
C: 18.7

Time: 1128



# WATER SAMPLING FIELD LOG

	Well: <b>E2-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/9/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>64° Sunny</b>	

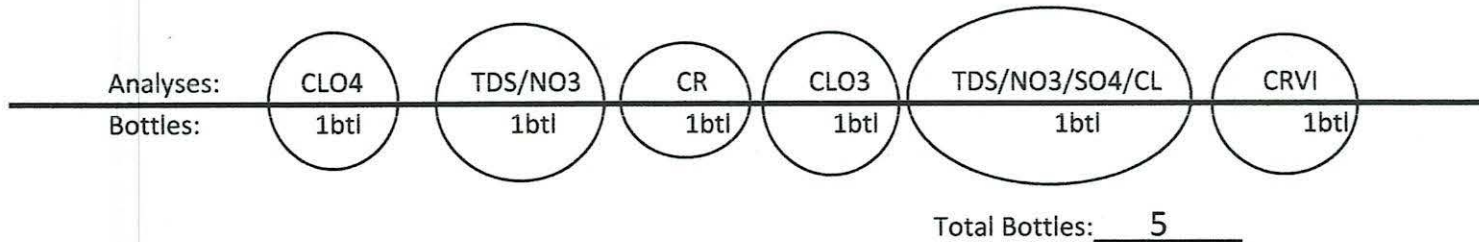
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/9/23</b>	Time: <b>1104</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>41.00</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/9/23</b>	Start Time: <b>1132</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1133</b>	<b>7.39</b> <small>pH</small>	<b>5.38</b> <small>mS/Cm</small>	<b>25.4</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1137</b>					



DUP EC Reading	QC
<b>5.43</b> <small>mS/Cm</small>	<b>7.04</b> <small>pH</small>
<b>25.9</b> <small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>E2-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>11/9/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>64° Sunny</b>	

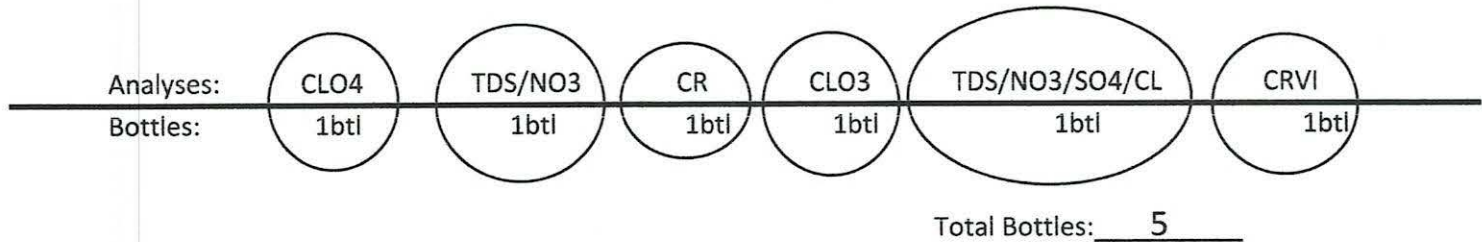
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>11/9/23</b>	Time: <b>1106</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>39.98</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>11/9/23</b>	Start Time: <b>1137</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1138</b>	<b>7.58</b> <small>pH</small>	<b>5.78</b> <small>mS/Cm</small>	<b>24.9</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1142</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <u>Σ2-5</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>11/9/23</u>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>64° Sunny</u>	

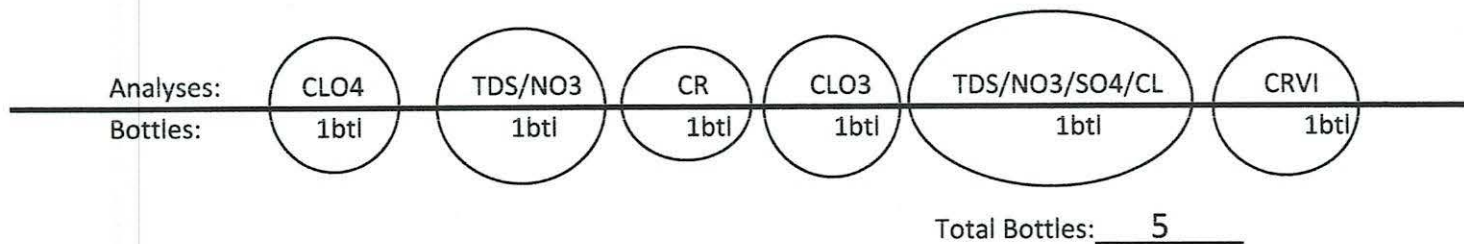
DTW ONLY

<b>Well Depth Information-</b>	Date: <u>11/9/23</u>	Time: <u>1109</u>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<u>48.48</u>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <u>11/9/23</u>	Start Time: <u>1142</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>1143</u>	<u>7.25</u> <small>pH</small>	<u>6.29</u> <small>mS/Cm</small>	<u>26.2</u> <small>°C</small>		
Sample Appearance: <u>clear</u>					
Finish Time: <u>1147</u>					



DUP EC Reading	QC
mS/Cm	pH
°C	









## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 11/15/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0711 Em
Temp Comp Value	25	
Calibration Value	1292	
Standard Temp	25.0	
Changed Buffers		Yes <input type="checkbox"/>

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0714 Em
Calibration Value	7.00	5.99	
Buffer Temp	25.0	25.1	
Changed Buffers			Yes <input checked="" type="checkbox"/>

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-L	6.11	26.5	6.10	26.6
1-E	7.78	24.8	7.80	24.9

QC's
7.02
7.03
Closing QC
7.02

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:

## DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/7/23 Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: <u>0735</u>
Wells to be sampled today: <u>1WF - West Middle</u>		
Dangers and hazards with wells to be sampled: <u>Hex</u>		
Name: <u>Emily McGuire</u>	Signature: <u>[Signature]</u>	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: <u>0740</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <u>0745</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





## DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/15/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 1000
Wells to be sampled today: APS		
Dangers and hazards with wells to be sampled: Vaults / Hex		
Name: Emily McGuire	Signature: E. McGuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 1005
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 1010
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		



## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 11/15/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	1015 gm
Temp Comp Value	25	
Calibration Value	1289	
Standard Temp	24.9	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	1018 gm
Calibration Value	7.01	5.98	
Buffer Temp	24.9	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
E2-3	5.38	25.4	5.43	25.9

QC's
7.04
Closing QC
7.02

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: J. M. J.







## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 11/13/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0641 gm
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.2	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0644 gm
Calibration Value	7.01	6.03	
Buffer Temp	25.0	25.0	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-H	9.34	24.0	9.37	24.0
1-J	5.74	23.5	5.77	23.5

QC's
7.00
6.59
Closing QC
6.59

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:

## DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/13/23 Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: <u>0646</u>
Wells to be sampled today: <u>IWF EAST/BORMAN</u>		
Dangers and hazards with wells to be sampled: <u>Hex / Vehicles</u>		
Name: <u>Emily McGuire</u>	Signature: <u>[Signature]</u>	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: <u>0650</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: <u>0655</u>
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		









# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 11/14/23


HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0608 Jm
Temp Comp Value	25	
Calibration Value	1289	
Standard Temp	24.8	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.01	0610 Jm
Calibration Value	7.00	6.02	
Buffer Temp	25.0	24.9	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
APT-3A	10.83	24.3	10.83	24.5
PC-11B	3.24	21.9	3.26	21.9

QC's
7.04
7.03
Closing QC
7.04

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: 

## DAILY SAMPLING RIG INSPECTION SHEET

Date: 11/14/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0615
Wells to be sampled today: ART-5cep		
Dangers and hazards with wells to be sampled: Hex / Vehicles / Vaults		
Name: Emily McGuire	Signature: E. McGuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0620
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0625
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		

# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie and Chris Stubbs, Ramboll

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**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, John Crowther, Jon Hunt, Emeryville Lab Data, Ramboll  
Dana Grady, Tetra Tech

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**From:** Jesse Bunkers and Dylan Begley, Tetra Tech

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**Date:** November 22, 2023

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**Subject:** **November 2023 Monthly Las Vegas Wash Surface Water Sampling  
Nevada Environmental Response Trust Site  
Henderson, Nevada**

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## MONTHLY SURFACE WATER SAMPLING ACTIVITIES

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the November 2023 Las Vegas Wash Surface Water Sampling event for the NERT Site.

The 10 surface water sample locations described in the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3*, dated December 2022, are shown on **Figure 1**. Tetra Tech visited the 10 sample locations and collected 28 independent samples from 9 sample locations within the Las Vegas Wash (the Wash) on November 1, 2023, as described herein. Sample collection in the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded the water quality field parameters, and collected a sample. All samples were collected at the approximated mid-water depth using the discrete hand-sample technique described in the SAP.

Samples were stored in coolers at 4 degrees Celsius and transferred under chain-of-custody documentation to Eurofins Environment Testing Southwest (Eurofins) in Phoenix, Arizona following completion of sampling. All samples were analyzed for perchlorate, chlorate, and total dissolved solids (TDS) using EPA Methods 314.0, 300.1B, and SM2540C, respectively. Analysis of TDS is not included in the SAP; however, February 9, 2023, discussions with Ramboll identified that monthly surface water samples should be analyzed for TDS and the SAP tables will be revised to reflect this addition. The Eurofins Laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the November 2023 sampling event are as follows:



- There was no flow at sample locations C1-W and C1-E in the C-1 Channel due to construction of a golf course water hazard upstream of the sample location; therefore, no samples were collected. It is anticipated that once construction is complete, flow will resume in the C-1 Channel.
- There was no flow at sample location C-12 Channel #2; therefore, no sample was collected.
- Field personnel were not able to sample the designated location for LVW4.2-4 due to encroachment of bank vegetation that precluded access to the designated location. The sample was collected as close as possible to the original sample location, approximately 10 feet south of the original sample location and recorded with a handheld GPS at coordinates: 36.09506° N, -114.95476° E.

Surface water sampling logs are provided as Attachment A. Field investigation daily logs and the calibration certification form are included as Attachments B and Attachment C, respectively. The electronic data deliverable (EDD) with the recorded sample depths and field parameters will be transmitted in a separate Excel file.

## CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the November 2023 Monthly Las Vegas Wash Surface Water Sampling Summary



November 22, 2023

Date

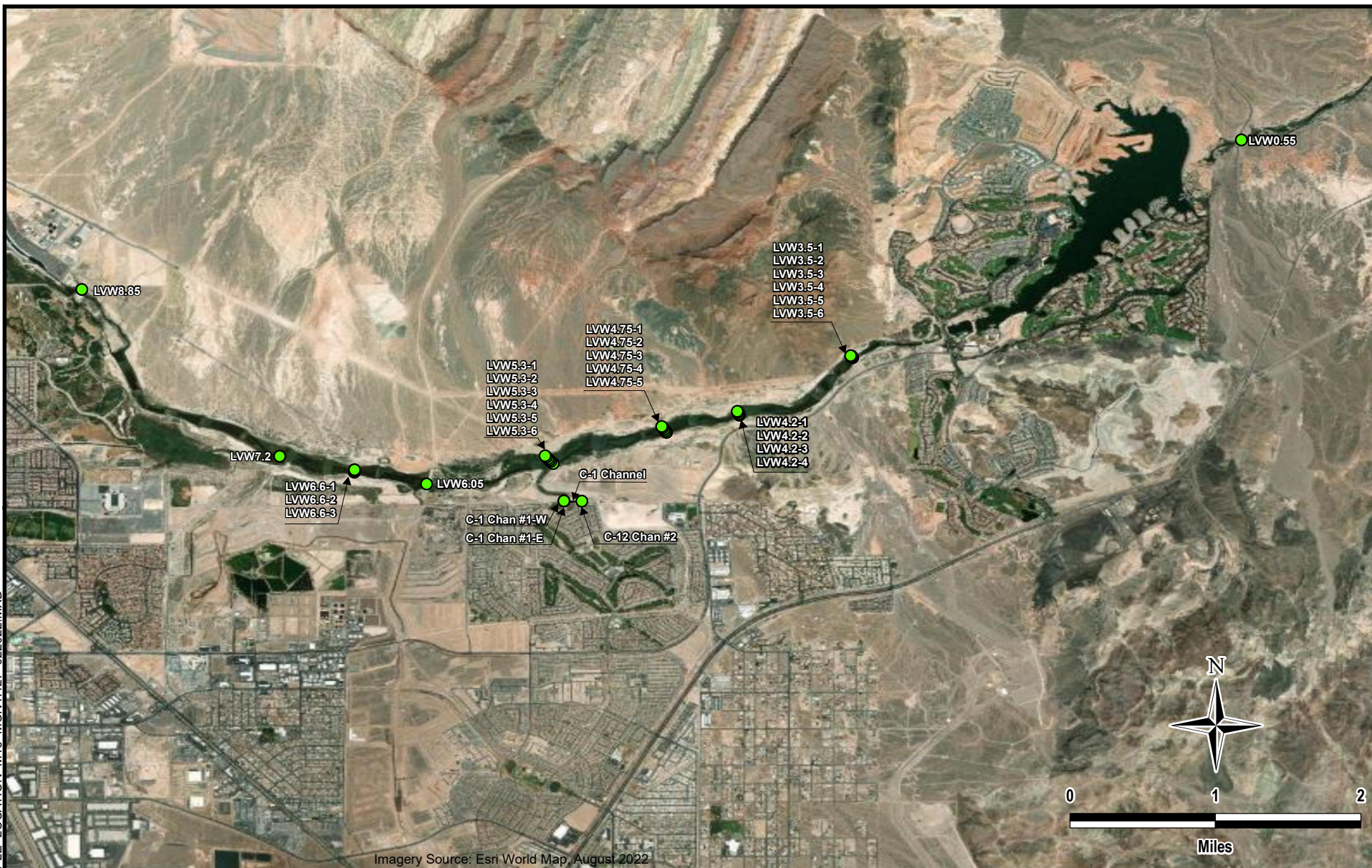
**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

**Figure**



D:\INERTM15\MXD\SAMPLE LOCATION M15 MONTHLY 022022.MXD



Imagery Source: Esri World Map, August 2022

**Legend**

- Monthly Sample Locations

**Tt TETRA TECH**

www.tetratech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH MONTHLY SAMPLING  
HENDERSON, NEVADA

**LAS VEGAS WASH SAMPLE POINT LOCATIONS**

Project No.: 117-7502023

Date: FEBRUARY 13, 2023

Designed By: AAM

Figure No.  
**1**

# **Attachment A**

## **Surface Water Sampling Logs**



**SURFACE WATER SAMPLING LOG**

Task Name: LVW Surface Water Sampling			Task Manager: Dylan Begley			Task No: M15		Date: 11/1/2023			
Field Samplers: J. Bunkers			Sampling Method: Dipper Bottle			Equipment Decon. Method: DI Rinse					
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
10:00	LVW 0.55	3.4	1.7	18.9	7.90	1.020	9.35	170.5	2.0	Clear	None
11:00	LVW 3.5-1	1.8	0.9	20.4	7.92	0.013	8.70	183.7	440.9	Clear	None
11:00	LVW 3.5-2	2.4	1.2	19.3	7.96	0.024	9.04	183.3	1.4	Clear	None
11:00	LVW 3.5-3	2.0	1.0	19.3	7.99	0.036	9.13	183.0	1.4	Clear	None
11:00	LVW 3.5-4	1.8	0.9	19.0	8.01	1.911	9.14	182.6	1.6	Clear	None
11:00	LVW 3.5-5	1.8	0.9	19.2	8.05	1.908	9.22	181.5	1.3	Clear	None
11:00	LVW 3.5-6	3.6	1.8	19.2	8.03	1.901	9.17	182.0	1.9	Clear	None
11:45	LVW 4.2-1	6.2	3.1	20.7	7.95	1.683	8.54	195.9	2.1	Clear	None
11:45	LVW 4.2-2	3.6	1.8	20.2	7.98	1.932	8.65	195.9	2.1	Clear	None
11:45	LVW 4.2-3	7.2	3.6	19.9	7.98	1.928	8.68	196.3	2.6	Clear	None
11:45	LVW 4.2-4	3.8	1.9	19.8	7.98	1.026	8.64	196.4	2.1	Clear	None
12:30	LVW 4.75-1	1.8	0.9	21.0	7.96	2.022	8.50	201.1	2.7	Clear	None
12:30	LVW 4.75-2	2.8	1.4	21.0	7.97	2.055	8.57	201.5	3.0	Clear	None
12:30	LVW 4.75-3	2.4	1.2	21.3	8.10	1.981	8.88	198.8	2.1	Clear	None
12:30	LVW 4.75-4	3.4	1.7	21.2	8.12	1.974	8.90	197.8	5.0	Clear	None
12:30	LVW 4.75-5	2.6	1.3	21.1	8.02	1.978	8.77	198.7	2.8	Clear	None
13:00	LVW 5.3-1	1.6	0.8	22.1	8.10	2.050	8.81	200.7	5.0	Clear	None
13:00	LVW 5.3-2	6.6	3.3	22.2	8.07	2.047	8.62	200.4	4.1	Clear	None
13:00	LVW 5.3-3	1.8	0.9	22.2	8.06	2.046	8.59	200.0	2.4	Clear	None
13:00	LVW 5.3-4	2.8	1.4	21.7	8.08	2.028	8.66	199.7	1.6	Clear	None
13:00	LVW 5.3-5	2.4	1.2	21.9	8.10	2.040	8.69	199.2	2.0	Clear	None
13:00	LVW 5.3-6	1.4	0.7	22.0	8.04	2.035	8.46	199.7	2.4	Clear	None
13:45	LVW 6.05	1.4	0.7	22.4	8.21	2.008	9.19	196.7	3.4	Clear	None
14:15	LVW 6.6-1	1.6	0.8	23.4	8.07	1.995	8.40	193.8	3.3	Clear	None
14:15	LVW 6.6-2	6.0	3.0	23.4	8.09	0.949	8.46	193.9	3.6	Clear	None
14:15	LVW 6.6-3	1.6	0.8	23.5	8.16	2.022	8.41	192.9	3.9	Clear	None
14:30	LVW 7.2	2.4	1.2	23.7	8.11	1.960	8.50	191.4	6.0	Clear	None
15:30	LVW 8.85	1.0	0.5	24.5	8.10	1.810	8.20	178.5	0.2	Clear	None





SURFACE WATER SAMPLING LOG

Task Name: LVW Surface Water Sampling			Task Manager: Dylan Begley			Task No: M15		Date: 11/1/2023			
Field Samplers: J. Bunkers			Sampling Method: Dipper Bottle			Equipment Decon. Method: DI Rinse					
Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
QA/QC Samples/ID: LVW0.55-1.7-20231101-FD			QA/QC Samples/ID: LVW0.55-20231101-FB			QA/QC Samples/ID: LVW6.05-0.7-20231101-FD					
QA/QC Sample Time: 10:00			QA/QC Sample Time: 10:00			QA/QC Sample Time: 13:45					
QA/QC Samples/ID: LVW6.05-20231101-FB			QA/QC Samples/ID: LVW7.2-1.2-20231101-FD			QA/QC Samples/ID:					
QA/QC Sample Time: 13:45			QA/QC Sample Time: 14:30			QA/QC Sample Time:					
<b>C1-E</b>	Flow (L/s): _____		<b>C1-W</b>	Flow (L/s): _____		<b>C-12</b>	Flow (L/s): _____				
	Width (ft): _____	Depth (ft): _____		Width (ft): _____	Depth (ft): _____		Width (ft): _____	Depth (ft): _____			
<b>Observations/Comments: C-12, C1-E, C1-W were dry and not sampled.</b>											

**Attachment B**  
**Field Investigation Daily Logs**



Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Date: 11/1/23
Field Personnel: JB, AH		Task No: M15
Location: Las Vegas Wash	Tablet #: 1	Reported by: J. Bunkers

Weather Conditions: 60°F Sunny, Calm  
 Total Vehicle Mileage: 25  
 Task Visitors / Subcontractors: None  
 Matters of Safety:  
 Rapid Water, slips/trips, hypothermia  
 Problems / Concerns and Corrective Actions Taken:  
 None

Time	Activities
0700	Meet sampling team at TC, safety/tailgate meeting, gather supplies
0930	YSI arrives from FedEx, move to LVW 0.55
1000	Collect samples LVW 0.55-1.7 + FD + FB
1100	Collect samples LVW 3.5-1 thru 3.5-6
1145	Collect samples LVW 4.2-1 thru 4.2-4. LVW 4.2-4 loc mod to 36.09506°N, -114.95476°E
1230	Collect samples LVW 4.75-1 thru 4.75-5
1300	Collect samples LVW 5.3-1 thru 5.3-6
1330	No flow at C-12, C-1-E, or C-1-W
1345	Collect samples LVW 6.05-0.7 + FD + FB
1415	Collect samples LVW 6.6-1, -2, & -3
1430	Collect samples LVW 7.2 + FD
1530	Collect sample LVW 8.55
1610	Arrive at office, store samples, store equipment, upload forms
1800	Done for day

<input checked="" type="checkbox"/> LVW8.85: 36.107231, -115.019994	<input checked="" type="checkbox"/> LVW5.3-6: 36.090660, -114.973903	<input checked="" type="checkbox"/> LVW4.2-2: 36.094817, -114.954612
<input checked="" type="checkbox"/> LVW7.2: 36.090604, -115.000302	<input checked="" type="checkbox"/> C1-E: 36.086147, -114.972022 No Flow	<input checked="" type="checkbox"/> LVW4.2-3: 36.094978, -114.954716
<input checked="" type="checkbox"/> LVW6.6-1: 36.089005, -114.992888	<input checked="" type="checkbox"/> C1-W: 36.086147, -114.972022 No Flow	<input checked="" type="checkbox"/> LVW4.2-4: 36.095108, -114.954806 Mod. Loc
<input checked="" type="checkbox"/> LVW6.6-2: 36.089155, -114.992828	<input checked="" type="checkbox"/> C12: 36.086125, -114.970255 No Flow	<input checked="" type="checkbox"/> LVW3.5-1: 36.100422, -114.943298
<input checked="" type="checkbox"/> LVW6.6-3: 36.089265, -114.992858	<input checked="" type="checkbox"/> LVW4.75-1: 36.092979, -114.961810	<input checked="" type="checkbox"/> LVW3.5-2: 36.100459, -114.943329
<input checked="" type="checkbox"/> LVW6.05: 36.087849, -114.985682	<input checked="" type="checkbox"/> LVW4.75-2: 36.093130, -114.961928	<input checked="" type="checkbox"/> LVW3.5-3: 36.100548, -114.943390
<input checked="" type="checkbox"/> LVW5.3-1: 36.089867, -114.973112	<input checked="" type="checkbox"/> LVW4.75-3: 36.093277, -114.962051	<input checked="" type="checkbox"/> LVW3.5-4: 36.100585, -114.943405
<input checked="" type="checkbox"/> LVW5.3-2: 36.090072, -114.973322	<input checked="" type="checkbox"/> LVW4.75-4: 36.093431, -114.962174	<input checked="" type="checkbox"/> LVW3.5-5: 36.100606, -114.943451
<input checked="" type="checkbox"/> LVW5.3-3: 36.090218, -114.973467	<input checked="" type="checkbox"/> LVW4.75-5: 36.093580, -114.962301	<input checked="" type="checkbox"/> LVW3.5-6: 36.100645, -114.943493
<input checked="" type="checkbox"/> LVW5.3-4: 36.090367, -114.973612	<input checked="" type="checkbox"/> LVW4.2-1: 36.094695, -114.954570	<input checked="" type="checkbox"/> LVW0.55: 36.122158, -114.904631
<input checked="" type="checkbox"/> LVW5.3-5: 36.090513, -114.973758		

Prepared by: Jesse Bunkers Signature: *J. Bunkers* Date: 11/1/23



# **Attachment C Calibration Logs**

## YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: Fm

DATE: 10/27/23

RENTAL CUSTOMER:

INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS.08

SERIAL NUMBER: 19K101416

CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>088047</u>
2. pH ZERO	pH 7	/	<u>088097</u>
pH SLOPE	pH 4	/	<u>086026</u>
pH SLOPE	pH 10	/	<u>082724</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN	Barometric pressure = 760mmHg	/	N/A
ZERO TEST	(Sodium Sulfite)	/	<u>N/A</u>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>10/27/23</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>120522</u>

# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie, Ramboll

---

**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, and Emeryville Lab Data; Ramboll  
Dana Grady, Tetra Tech

---

**From:** Jesse Bunkers and Katelyn Goen

---

**Date:** January 15, 2024

---

**Subject:** December 2023 Monthly Groundwater Monitoring Summary  
Nevada Environmental Response Trust Site  
Henderson, Nevada

---

## MONTHLY DEPTH TO WATER MEASUREMENTS

---

At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the December 2023 monthly depth-to-water measurements. This activity was performed in accordance with the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan, Revision 3* dated December 16, 2022 (SAP), which was approved by the Nevada Division of Environmental Protection (NDEP) on January 4, 2023, and *Field Guidance Document No. 008 – Groundwater and Free Product Level Measurements*, dated March 24, 2017.

Figure 1 identifies the 24 monitoring well locations requiring depth-to-water measurements as part of the monthly groundwater monitoring event detailed on Table 3 (Monthly Monitoring Program Summary) of the SAP. Depth-to-water measurements were collected from 23 of the 24 wells on December 5, 2023. A depth-to-water measurement could not be recorded at M-167 due to lack of water in this well.

The field water level measurement log is included as **Attachment A** and the field investigation daily log is included as **Attachment B**. The electronic data deliverable (EDD) with the recorded depth to water data is transmitted separately via email as an Excel file.



## CERTIFICATION

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the December 2023 Monthly Groundwater Monitoring Summary



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

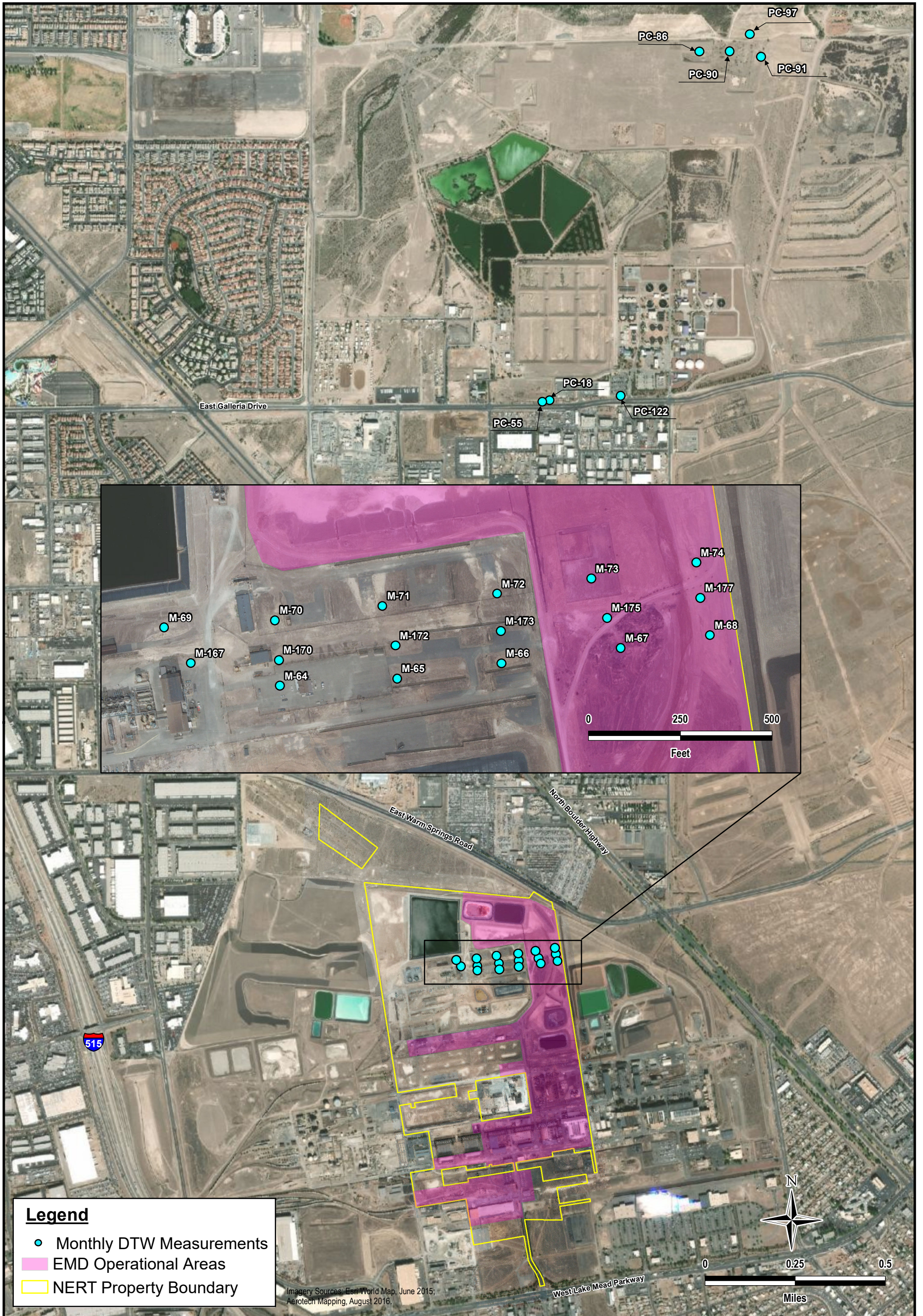
January 15, 2024

Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024

**Figure**





P:\BLD01520225\_NERT\GWMONITORING\FIELD MAPS\FIG01\_MONTHLYWLM\_ES.MXD



www.tetrattech.com

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Henderson, Nevada 89015  
Phone: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

GROUNDWATER MONITORING PROGRAM  
HENDERSON, NEVADA

MONTHLY WATER LEVEL MEASUREMENT WELLS

Project No.: 117-7502017

Date: JULY 10, 2020

Designed By: ES

Figure No.

1



**Attachment A**  
**Field Water Level Measurement Log**

## WELL WATER LEVEL MEASUREMENT LOG

Task Name: GW Monitoring	Task No: H02	Date: 12/5/2023
Task Manager: Jesse Bunkers	Location: Site Wide	
Equipment Model/Type: Solinst Water Level Meter	Serial Number(s): 348438	Recorded by: D. Begley

Time	Well ID	Measuring Point	Depth to Static Water Level (ft BMP)	Condition of Well and Well Seal	Dedicated Tubing (Y/N)
15:28	M-64	TOC	30.73	Good	Y
15:32	M-65	TOC	33.75	Good	N
15:33	M-66	TOC	32.60	Good	DP
16:37	M-67	TOC	23.15	Good	Y
16:28	M-68	TOC	27.57	Good	Y
14:50	M-69	TOC	35.04	Good	Y
15:00	M-70	TOC	36.70	Good	DP
15:06	M-71	TOC	35.90	Good	Y
15:15	M-72	TOC	32.90	Good	DP
16:13	M-73	TOC	30.93	Good	Y
16:20	M-74	TOC	29.53	Good	Y
14:56	M-167	TOC	--	Dry	N
15:50	M-170	TOC	30.55	Good	N
15:45	M-172	TOC	33.88	Good	N
15:38	M-173	TOC	30.05	Good	N
16:34	M-175	TOC	22.07	Good	N
16:26	M-177	TOC	22.57	Good	N
14:00	PC-18	TOC	29.69	Good	Y
13:55	PC-55	TOC	28.51	Good	Y
13:33	PC-86	TOC	9.05	Good	Y
13:27	PC-90	TOC	2.26	Good	Y
13:06	PC-91	TOC	9.03	Good	Y
13:17	PC-97	TOC	1.95	Good	Y
13:48	PC-122	TOC	28.88	Good	Y

BMP = Below Measuring Point    DP = Dedicated Pump    OS = Offsite Storage    TOC = Top of Casing (Well Riser)

**Attachment B**  
**Field Investigation Daily Log**





## December 2023 Sampling Event

**DTW readings taken manually for all Interceptor Wells, SWF, AWF and AP5 Wells unless otherwise noted**

**Issues/Concerns**

- IWF, SWF, AWF, AP5 Wells      Manual depths taken with a Geotech Water Level Meter #8467
  
- PC99R2/R3                              When taking DTW readings, PC-99R2 was feeding into PC-99R3 so quickly that splash was preventing us from obtaining an accurate DTW reading. Unable to remove transducer from well or pass with TWD probe. Recorded DTW readings from Control Panel
  
- AP5 Wells                                Sampled by ETI 2023 12 06. Will be done on a Monthly basis by ETI.
  
- \*PC-116R; PC-117; PC-118; PC-120    All have more than 1-foot difference in DTW from 11/2023 to 12/2023. Data recorded on field sheet.
  
- \*PC-133; ART-2; ART-4A; ART-7A; ART-9;
  
- \*PC-150; I-AD; I-D; I-H; I-L; I-M; I-N; I-S
  
- ART-2 and ART-2A                    Both wells running at time of DTW and Sampling. Sample bottles labeled as ART-2/2A 2022 12 14.
  
- I-AB, I-AC                                DTW taken prior to turning well on to sample, purged prior to collecting sample.
  
- I-Q    DTW probe hitting top of pump. Unable to bypass pump/motor with DTW probe.  
Emily McGuire sampled DECEMBER 2023.
  
- SWF    Fluctuating DTWs across SWF/AWF due to Henderson Water discharging into nearby ponds.

**FD/EB**

- |                  |                            |                         |
|------------------|----------------------------|-------------------------|
| <b>SWF</b>       | PC-99R2/R3 2023 12 14 – FD | PC-115R 2023 12 14 - EB |
| <b>AWF</b>       | PC-150 2023 12 14 – FD     | ART-1A 2023 12 14 - EB  |
| <b>IWF</b>       | I-V 2023 12 14 – FD        | I-W 2023 12 12 - EB     |
| <b>AP5 Wells</b> | E2-3 2023 12 06 - FD       | E2-4 2023 12 06 - EB    |

\*\*Per email from Emily Gilson dated 4/12/2017 – removed historical\_reference\_elev and water\_level\_elev data from 2017 Groundwater Sampling EDD

- Field Forms changes              TWD will be marked with a “NM” not measured, unless a manual reading obtained. Manually record TWD in May
  
- Monthly Table changes            Effective 9/13/2018- Well casing and LT Elevations email from David Bohmann dated 9/13/18  
  
Effective 8/1/2017 - TWD recorded annually in May - forms are to be marked at NM (Not Measured) per email from Katie Linscott 7/19/2017
  
- Sampling Changes                    Effective 3/16/2020 – NDEP approved NERT Remedial Performance Monitoring SAP, Revision 1 - ART-6 will only be sampled by Tetra Tech in November and May.

# WATER SAMPLING FIELD LOG

Well: 1-AA

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 58° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 46.44  
 Manually Taken at Well  Taken at Control Panel

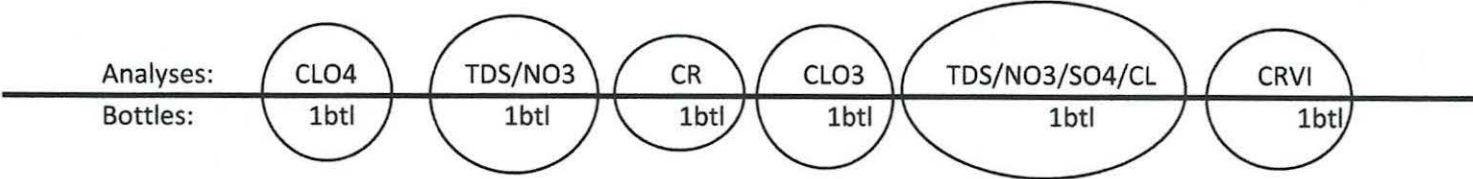
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/7/23 Start Time: 0730

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0731</u>	<u>6.24</u> <small>pH</small>	<u>4.43</u> <small>mS/Cm</small>	<u>24.2</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0735</u>				



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



## WATER SAMPLING FIELD LOG

Well: 1-AB

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 58° sunny

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0700

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 35.79  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

**Well Purge Required**

Turned pump on at 0736, flowing at 4.2 gpm. Purged for 4 minutes, 2 minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_ @ 6.7gpm

**Field Measurements-** Date: 12/7/23 Start Time: 0736

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0740</u>	<u>6.86</u> <small>pH</small>	<u>4.90</u> <small>mS/Cm</small>	<u>21.1</u> <small>°C</small>	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0743</u>				

Analyses:

Bottles:

CLO4

1btl

TDS/NO3

1btl

CR

1btl

CLO3

1btl

TDS/NO3/SO4/CL

1btl

CRVI

1btl

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-AC

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 59° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 29.10  
 Manually Taken at Well  Taken at Control Panel

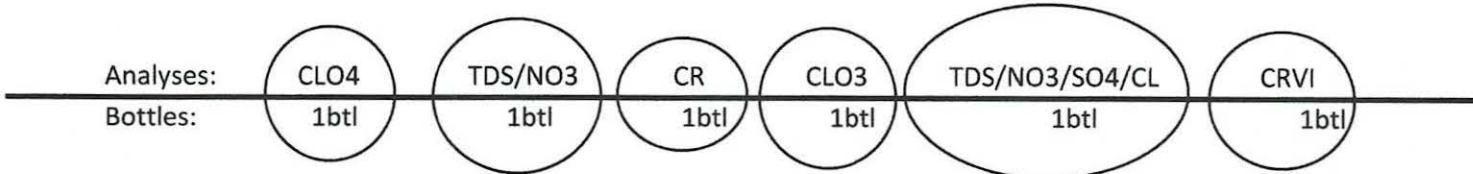
Height of Water Column(ft):

Well Purge Required

Turned pump on at 1220, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, 4 minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_. @3.7 gpm

**Field Measurements-** Date: 12/14/23 Start Time: 1220

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1224</u>	<u>7.40</u> <small>pH</small>	<u>6.54</u> <small>mS/Cm</small>	<u>22.6</u> <small>°C</small>	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>1227</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-AD

Date(s): 12 14 23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 59° Sunny

DTW ONLY

**Well Depth Information-** Date: 12 14 23 Time: 0700

Total Well Depth(ft): NM  
(*'NM'*) - No measurement taken, manually measured annually)

Depth to Water(ft): 35.29\*  
 Manually Taken at Well  Taken at Control Panel

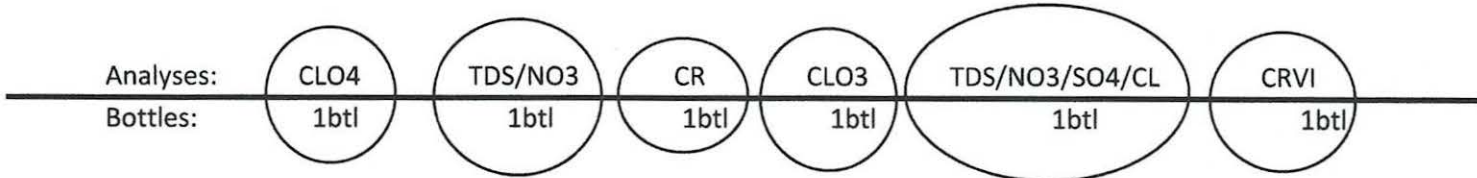
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12 14 23 Start Time: 1227

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1228</u>	<u>7.58</u> pH	<u>6.57</u> mS/Cm	<u>25.0</u> °C	<u>* manually verified</u>
Sample Appearance: <u>yellow</u>				
Finish Time: <u>1232</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-AR

Date(s): 121 7 123

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 62° sunny

DTW ONLY

**Well Depth Information-** Date: 121 7 123 Time: 0915<sup>h</sup> 0700

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 43.83  
 Manually Taken at Well  Taken at Control Panel

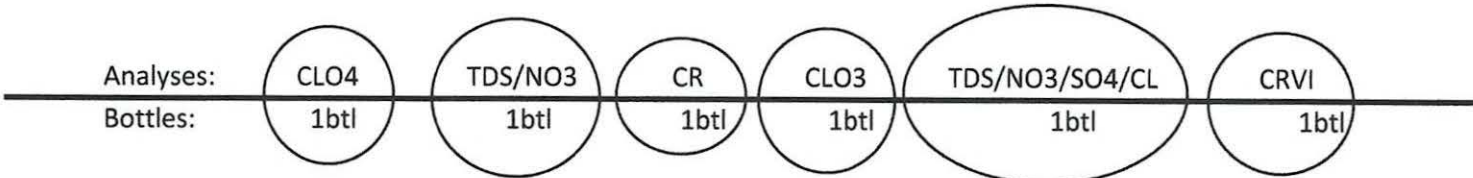
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 121 7 123 Start Time: 0915

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0916</u>	<u>7.53</u> pH	<u>6.00</u> mS/Cm	<u>23.0</u> °C	
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0928</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>6.00</u> mS/Cm	<u>6.97</u> pH
<u>23.0</u> °C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-B</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>58° Sunny</b>	

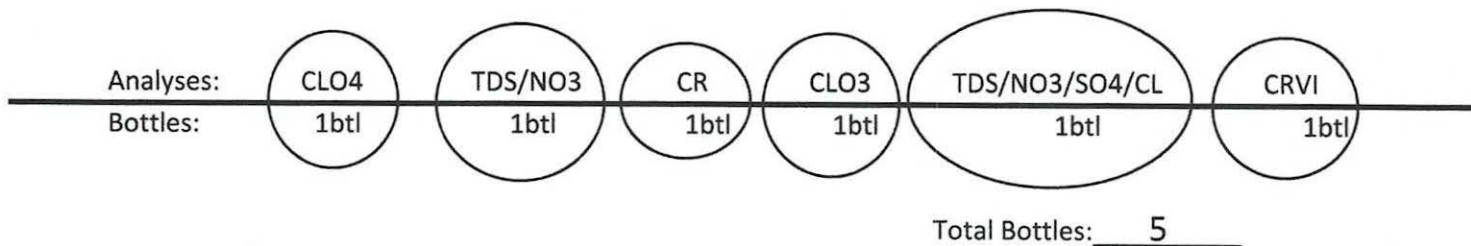
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>12/7/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>42.88</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/7/23</b>	Start Time: <b>0744</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0745</b>	<b>7.07</b> <small>pH</small>	<b>5.10</b> <small>mS/Cm</small>	<b>23.4</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0749</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-C</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/7/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>62° sunny</b>	

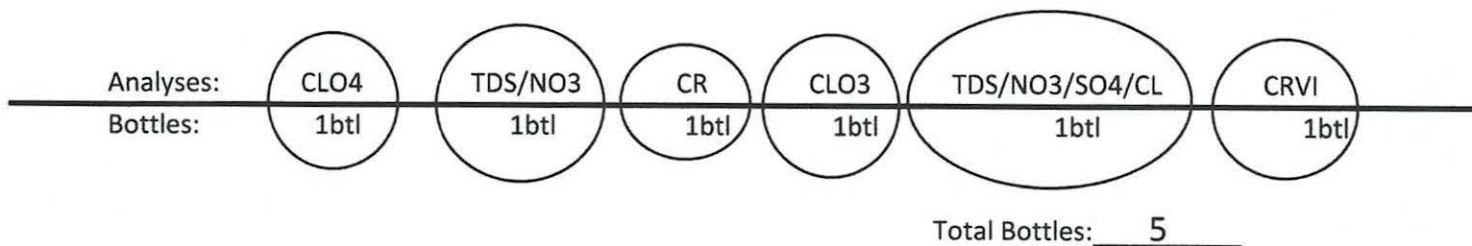
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/7/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>43.50</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/7/23</b>	Start Time: <b>0928</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0929</b>	<b>7.47</b> <small>pH</small>	<b>6.99</b> <small>mS/Cm</small>	<b>23.6</b> <small>°C</small>		
Sample Appearance: <b>pale yellow</b>					
Finish Time: <b>0934</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-D</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>62° Sunny</b>	

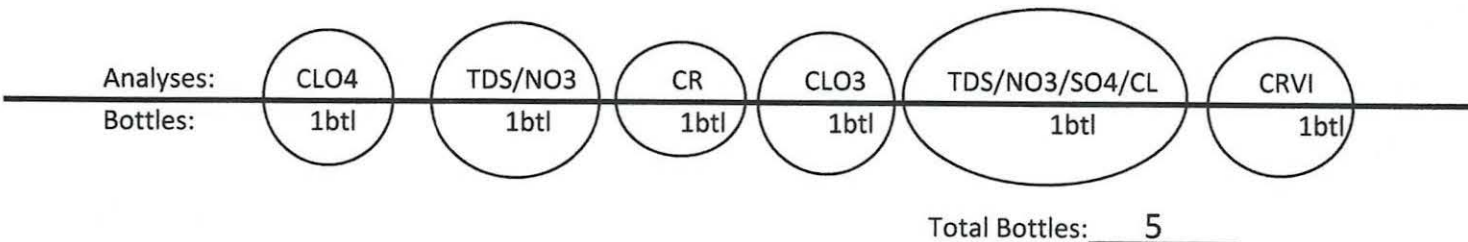
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/7/23</b>	Time: <b>0935</b>	
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>			
Depth to Water(ft): <b>36.83*</b>			
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel			
Height of Water Column(ft):			

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>12/7/23</b>	Start Time: <b>0935</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>0937</b>	<b>7.47</b> <small>pH</small>	<b>7.33</b> <small>mS/Cm</small>	<b>27.2</b> <small>°C</small>	<b>*measured 2x</b>		
Sample Appearance: <b>pale yellow</b>						
Finish Time: <b>0941</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-E

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 62° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0900

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 43.53  
 Manually Taken at Well  Taken at Control Panel

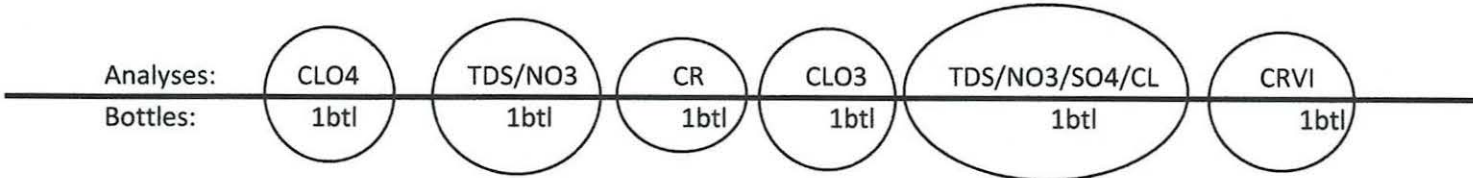
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/7/23 Start Time: 0951

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0952</u>	<u>7.56</u> pH	<u>7.67</u> mS/Cm	<u>25.2</u> °C	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>0956</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-F</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>121 7 123</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>62° Sunny</b>	

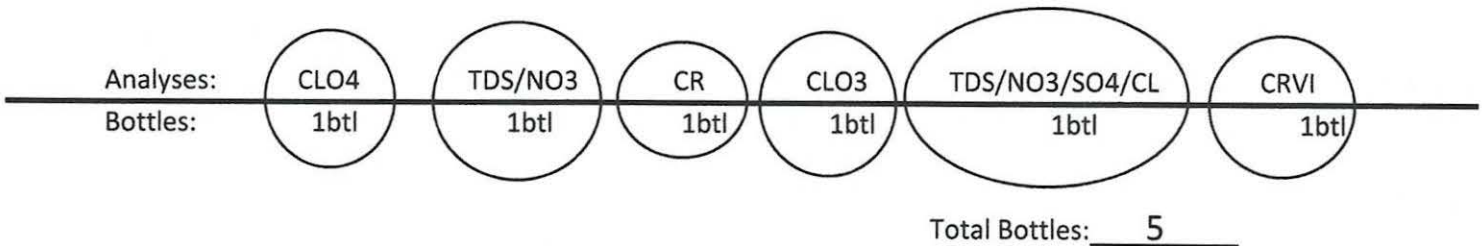
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>121 7 123</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>40.33</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>121 7 123</b>	Start Time: <b>1010</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1011</b>	<b>7.37</b> <small>pH</small>	<b>8.98</b> <small>mS/Cm</small>	<b>25.0</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1015</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>1-G</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>52° Sunny</b>	

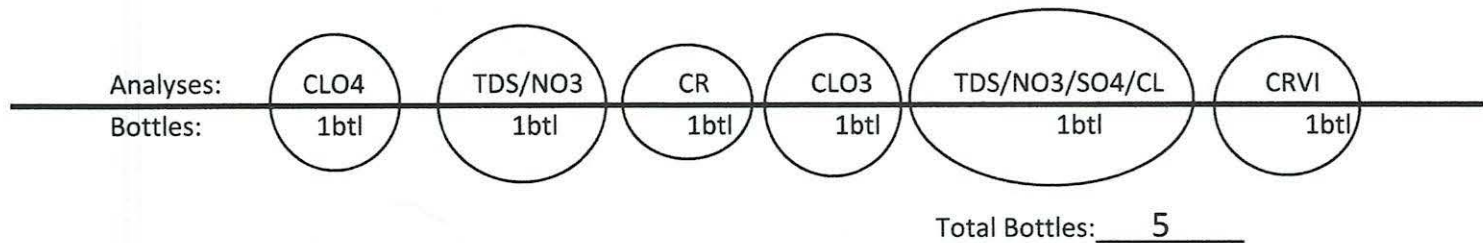
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>12/12/23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>40.54</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/12/23</b>	Start Time: <b>1004</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1005</b>	<b>6.94</b> <small>pH</small>	<b>10.81</b> <small>mS/Cm</small>	<b>27.9</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>1009</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-H</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>52° Sunny</b>	

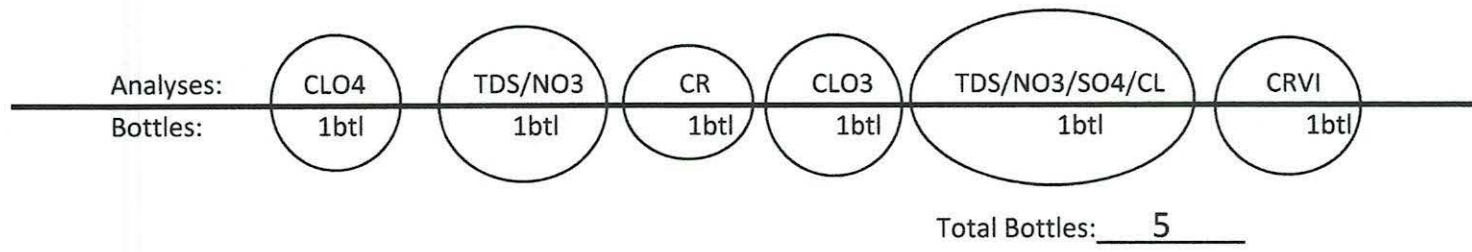
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/12/23</b>	Time: <b>1023</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>43.82*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/12/23</b>	Start Time: <b>1023</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1025</b>	<b>7.27</b> <small>pH</small>	<b>9.36</b> <small>mS/Cm</small>	<b>26.6</b> <small>°C</small>	<b>* Verify measured 2x</b>	
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1028</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: 1-1
Project/Site: NERT Project - Henderson Nevada	Date(s): 12/14/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: sunny 59°	

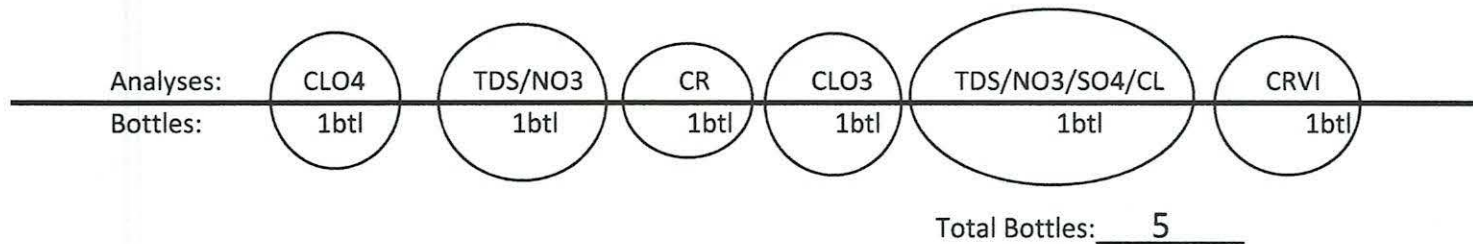
DTW ONLY

Well Depth Information-	Date: 12/14/23	Time: 0700
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <del>1720.4</del> 24.91		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-				Date: 12/14/23	Start Time: 1156
Sample Time	pH	EC/MC	Temp	Well Observations	
1157	7.74 <small>pH</small>	6.82 <small>mS/Cm</small>	24.0 <small>°C</small>		
Sample Appearance: yellow					
Finish Time: 1201					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-J</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>59° Sunny</b>	

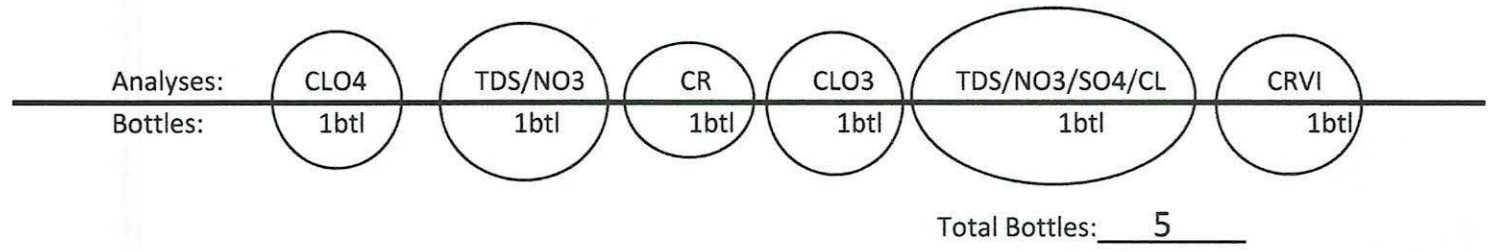
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1207</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>42.81</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel	
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1207</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1209</b>	<b>7.77</b> <small>pH</small>	<b>5.84</b> <small>mS/Cm</small>	<b>24.0</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1213</b>					



DUP EC Reading	QC
<b>5.85</b> <small>mS/Cm</small>	<b>7.00</b> <small>pH</small>
<b>24.0</b> <small>°C</small>	

# WATER SAMPLING FIELD LOG

	Well: <b>1-H</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>59° sunny</b>	

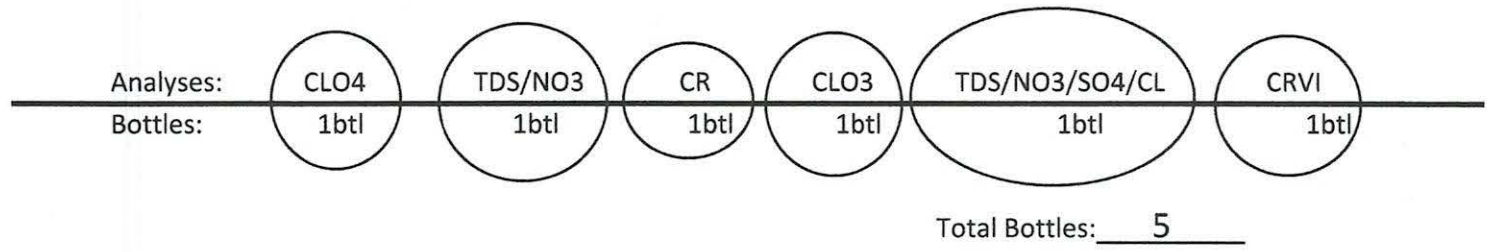
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>36.80</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1215</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1216</b>	<b>7.69</b> <small>pH</small>	<b>6.56</b> <small>mS/Cm</small>	<b>24.8</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1219</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-L

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 62° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0848

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 38.40\*  
 Manually Taken at Well  Taken at Control Panel

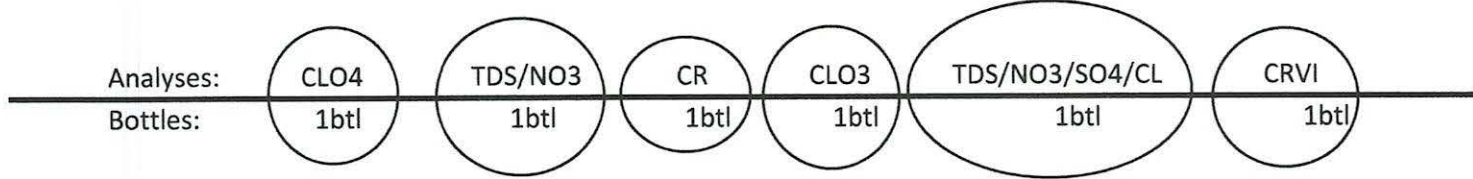
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/7/23 Start Time: 0848

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0850</u>	<u>7.38</u> <small>pH</small>	<u>6.12</u> <small>mS/Cm</small>	<u>25.4</u> <small>°C</small>	<u>*measured 2x</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0855</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-M

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 62° sunny

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0943

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 35.14\*  
 Manually Taken at Well  Taken at Control Panel

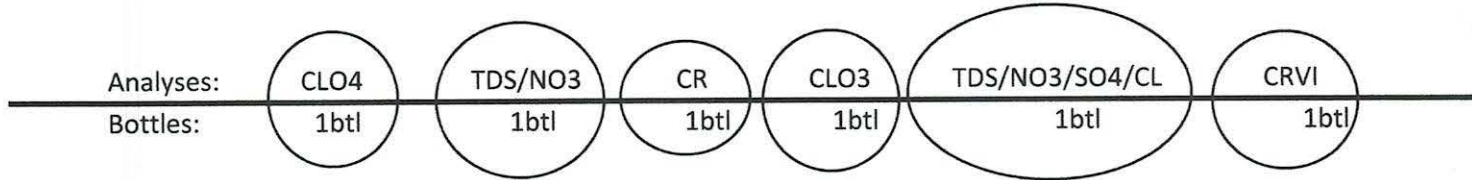
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/7/23 Start Time: 0943

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0945</u>	<u>7.55</u> <small>pH</small>	<u>8.04</u> <small>mS/Cm</small>	<u>24.2</u> <small>°C</small>	<u>*measured 2x</u>
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0950</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: 1-17
Project/Site: NERT Project - Henderson Nevada	Date(s): 12/7/23
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: 62° Sunny	

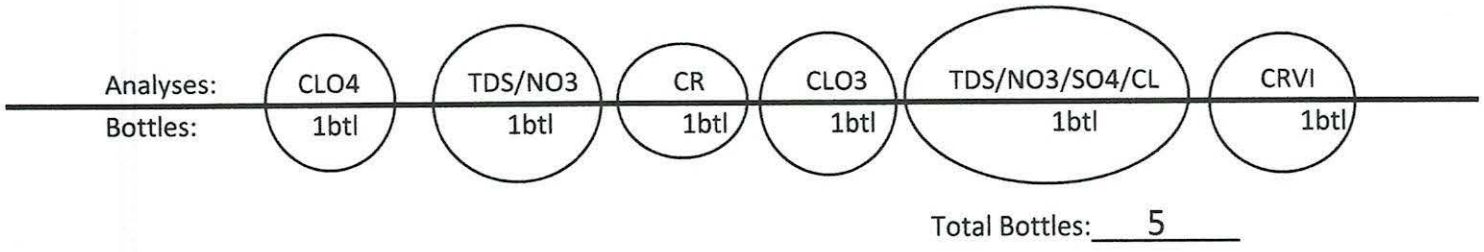
DTW ONLY

<b>Well Depth Information-</b>	Date: 12/7/23	Time: 0957
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): 38.55*		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: 12/7/23	Start Time: 0957
Sample Time	pH	EC/MC	Temp	Well Observations	
0959	7.44 <small>pH</small>	7.98 <small>mS/Cm</small>	24.8 <small>°C</small>	*measured 2x	
Sample Appearance: yellow					
Finish Time: 1003					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-0

Date(s): 12/12/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 52° sunny

DTW ONLY

**Well Depth Information-** Date: 12/12/23 Time: 1045

Total Well Depth(ft): NM  
(*'NM'* - No measurement taken, manually measured annually)

Depth to Water(ft): 34.12<sup>m</sup> 34.42  
 Manually Taken at Well  Taken at Control Panel

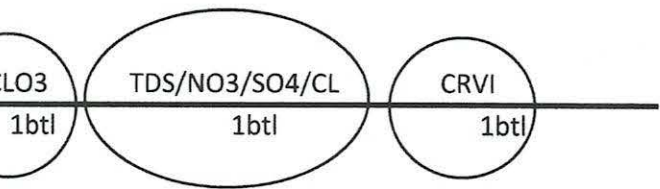
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/12/23 Start Time: 1045

Sample Time	pH	EC/MC	Temp	Well Observations
1047	7.56 pH	8.21 mS/Cm	27.0 °C	
Sample Appearance: yellow				
Finish Time: 1050				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-P

Date(s): 12 | 12 | 123

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 52° Sunny

DTW ONLY

**Well Depth Information-** Date: 12 | 12 | 123 Time: 0800

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 42.35  
 Manually Taken at Well  Taken at Control Panel

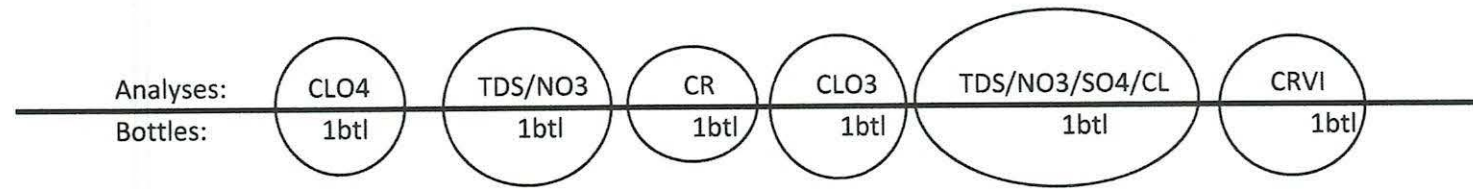
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12 | 12 | 123 Start Time: 1030

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1031</u>	<u>7.32</u> pH	<u>8.64</u> mS/Cm	<u>26.0</u> °C	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>1033</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>8.63</u> mS/Cm	<u>6.99</u> pH
<u>26.0</u> °C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-Q</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 52°</b>	

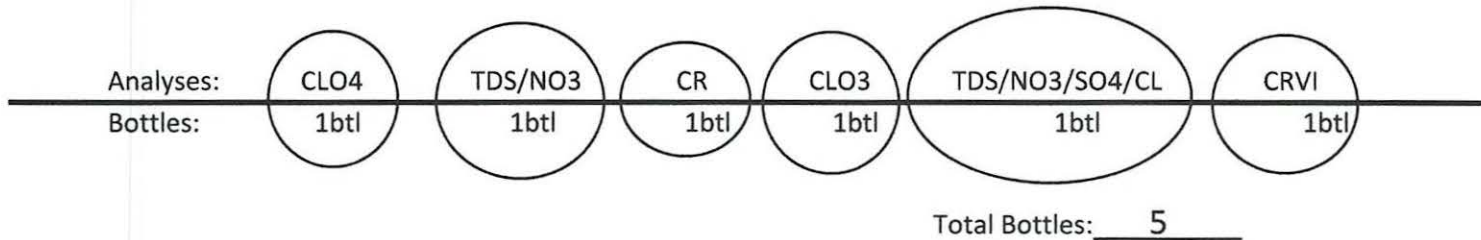
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/12/23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.56</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/12/23</b>	Start Time: <b>0958</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0959</b>	<b>6.84</b> <small>pH</small>	<b>9.39</b> <small>mS/Cm</small>	<b>25.0</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1003</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-R

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 58° sunny

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0749

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 42.13  
 Manually Taken at Well  Taken at Control Panel

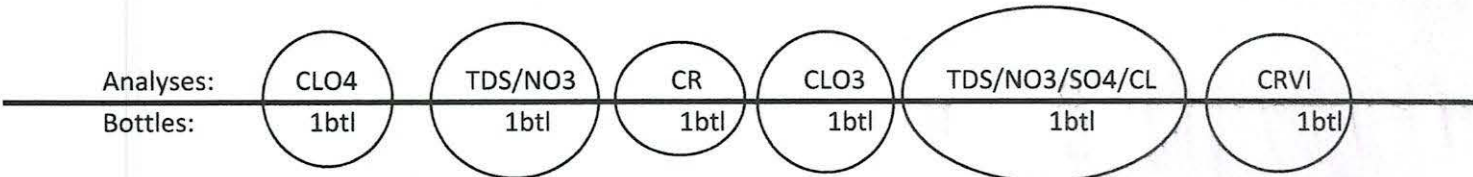
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/7/23 Start Time: 0749

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0751</u>	<u>7.22</u> pH	<u>6.19</u> mS/Cm	<u>25.4</u> °C	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0757</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-5

Date(s): 12/7/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 62°

DTW ONLY

**Well Depth Information-** Date: 12/7/23 Time: 0901

Total Well Depth(ft): NM  
( 'NM' ) - No measurement taken, manually measured annually

Depth to Water(ft): 37.98\*  
 Manually Taken at Well  Taken at Control Panel

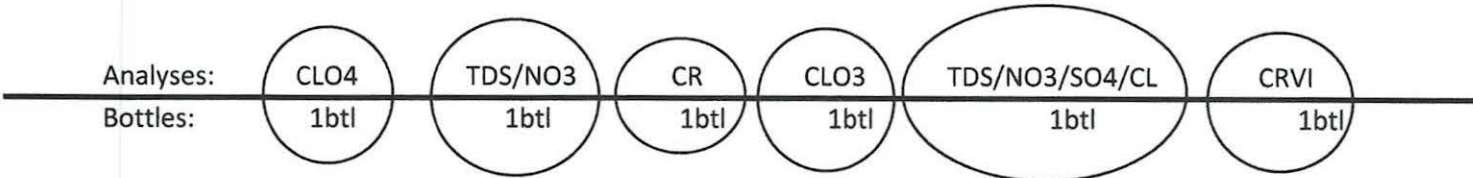
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/7/23 Start Time: 0901

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0903</u>	<u>7.42</u> <small>pH</small>	<u>6.30</u> <small>mS/Cm</small>	<u>23.1</u> <small>°C</small>	<u>*measured 2x</u>
Sample Appearance: <u>pale yellow</u>				
Finish Time: <u>0910</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>1-T</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/12/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>52° Sunny</b>	

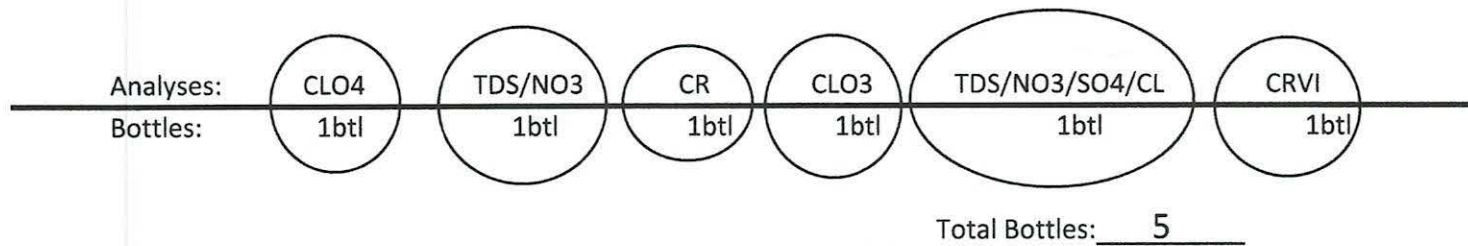
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>12/12/23</b>	Time: <b>0800</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>44.33</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/12/23</b>	Start Time: <b>1009</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1010</b>	<b>6.98</b> <small>pH</small>	<b>10.31</b> <small>mS/Cm</small>	<b>25.3</b> <small>°C</small>		
Sample Appearance: <b>yellow; bright</b>					
Finish Time: <b>1014</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>1-U</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/12/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>52° Sunny</b>	

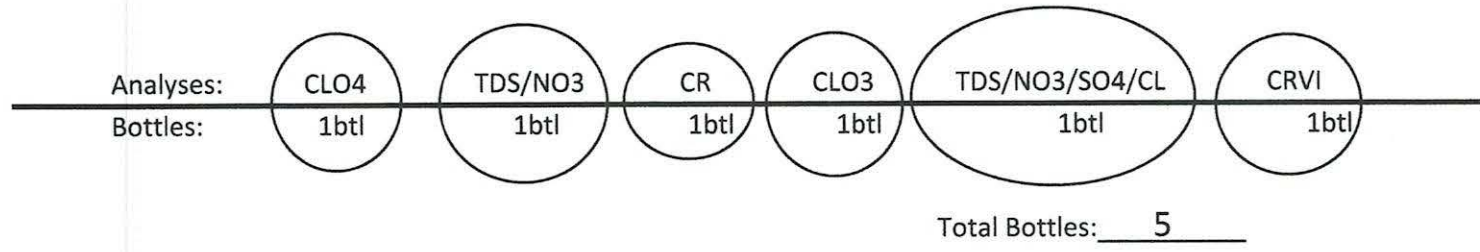
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>12/12/23</b>	Time: <b>0800</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>44.35</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/12/23</b>	Start Time: <b>1015</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1016</b>	<b>7.12</b> <small>pH</small>	<b>9.95</b> <small>mS/Cm</small>	<b>26.0</b> <small>°C</small>		
Sample Appearance: <b>bright yellow</b>					
Finish Time: <b>1028</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: 1-V

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 59° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 1146

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 44.00

Manually Taken at Well  Taken at Control Panel

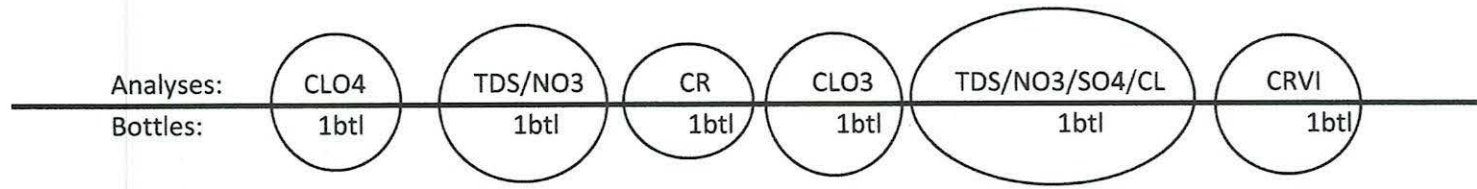
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 1146

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1148</u>	<u>7.71</u> pH	<u>7.18</u> mS/Cm	<u>23.3</u> °C	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>1154</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

1-V 2023 12 14 - FD  
 Collected at the same time for the same analyses before moving on to the next well.  
 PH: 7.68  
 EC: 7.21  
 C: 23.2

TH

## WATER SAMPLING FIELD LOG

	Well: <u>1-W</u>
Project/Site: NERT Project - Henderson Nevada	Date(s): <u>12/12/23</u>
Sampling Team: <u>Emily McGuire</u>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <u>52° sunny</u>	

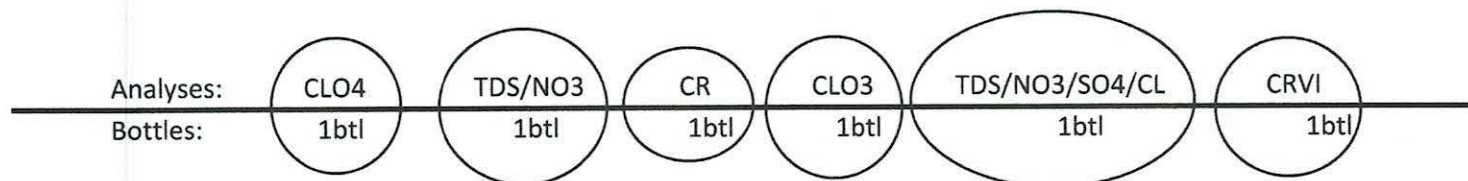
DTW ONLY

Well Depth Information-	Date: <u>12/12/23</u>	Time: <u>1034</u>
Total Well Depth(ft): <u>NM</u> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <u>49.73</u>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

Field Measurements-				Date: <u>12/12/23</u>	Start Time: <u>1034</u>
Sample Time	pH	EC/MC	Temp	Well Observations	
<u>1036</u>	<u>7.52</u> <small>pH</small>	<u>8.15</u> <small>mS/Cm</small>	<u>24.0</u> <small>°C</small>		
Sample Appearance: <u>bright yellow</u>					
Finish Time: <u>1043</u>					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

1-W 2023 12 12 - EB  
 Collected for the same analyses before moving on to the next well.  
 PH: 5.08  
 EC: 0.12  
 C: 15.9  
 Time: 1040



# WATER SAMPLING FIELD LOG

	Well: <b>1-X</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>62° sunny</b>	

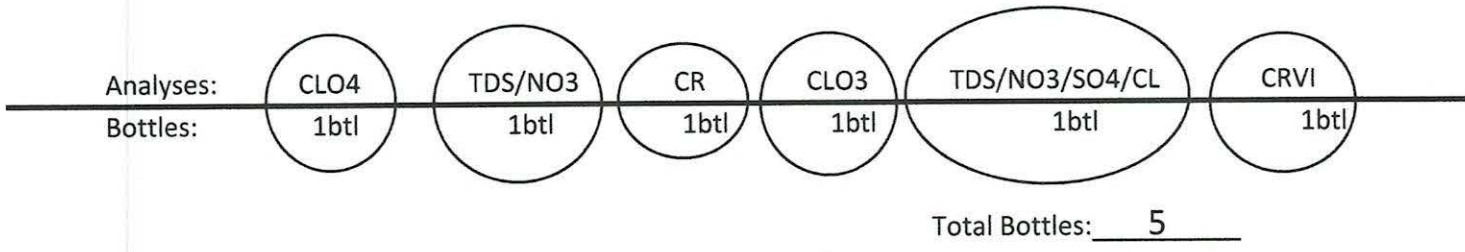
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/7/23</b>	Time: <b>0700</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>48.90</b>		
<input type="checkbox"/> Manually Taken at Well <input checked="" type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/7/23</b>	Start Time: <b>1004</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1005</b>	<b>7.35</b> <small>pH</small>	<b>8.67</b> <small>mS/Cm</small>	<b>24.5</b> <small>°C</small>		
Sample Appearance: <b>yellow</b>					
Finish Time: <b>1009</b>					



DUP EC Reading	QC
<b>8.67</b> <small>mS/Cm</small>	<b>6.98</b> <small>pH</small>
<b>24.5</b> <small>°C</small>	



# WATER SAMPLING FIELD LOG

	Well: <b>1-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/7/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>58° sunny</b>	

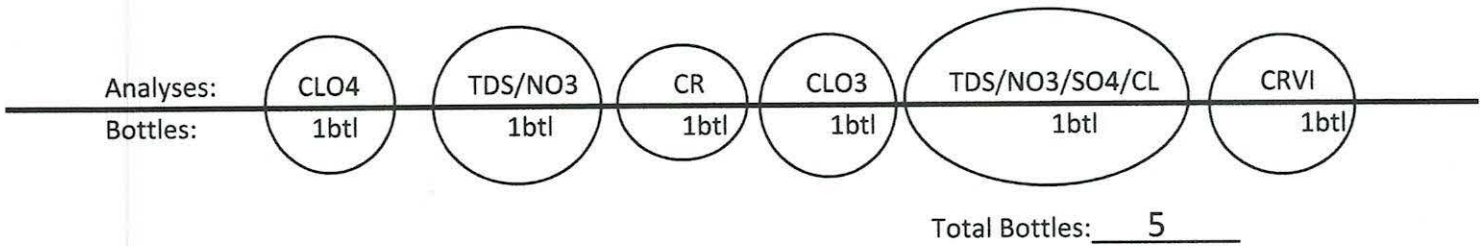
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/7/23</b>	Time: <b>0759</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>50.28</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/7/23</b>	Start Time: <b>0759</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0800</b>	<b>7.20</b> <small>pH</small>	<b>6.19</b> <small>mS/Cm</small>	<b>25.9</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0805</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: 1-Z

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 59° sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 1202

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 33.71  
 Manually Taken at Well  Taken at Control Panel

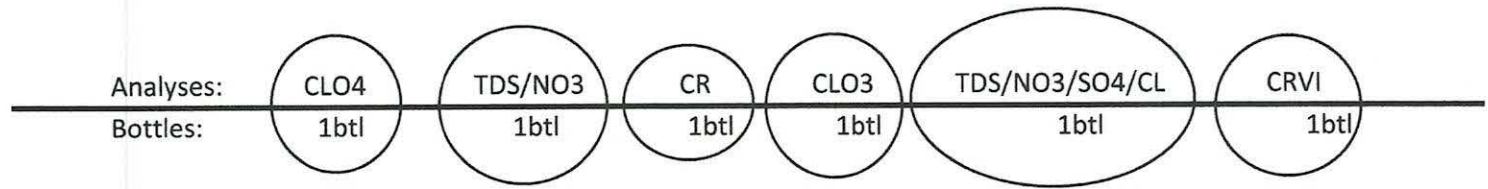
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 1202

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1203</u>	<u>7.91</u> pH	<u>5.26</u> mS/Cm	<u>23.8</u> °C	
Sample Appearance: <u>yellow</u>				
Finish Time: <u>1206</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>ART-1</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>n/a</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>95° sunny</b>	

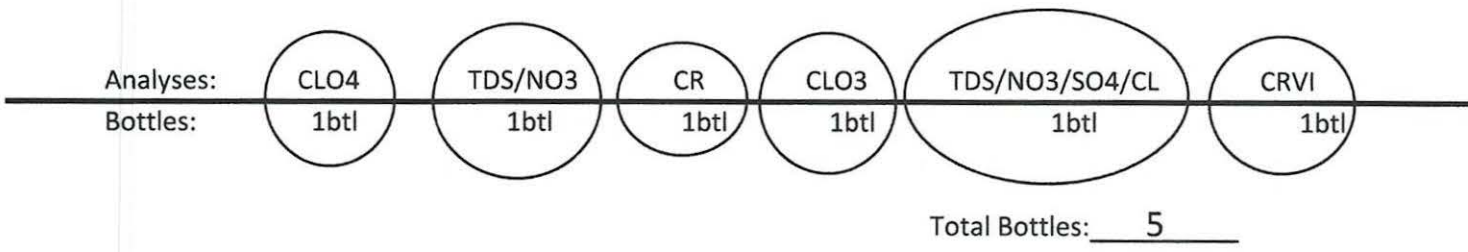
**DTW ONLY**

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1015</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>25.69</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

**Well Purge Required**

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date:	Start Time:	
Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-1A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>55° Sunny</b>	

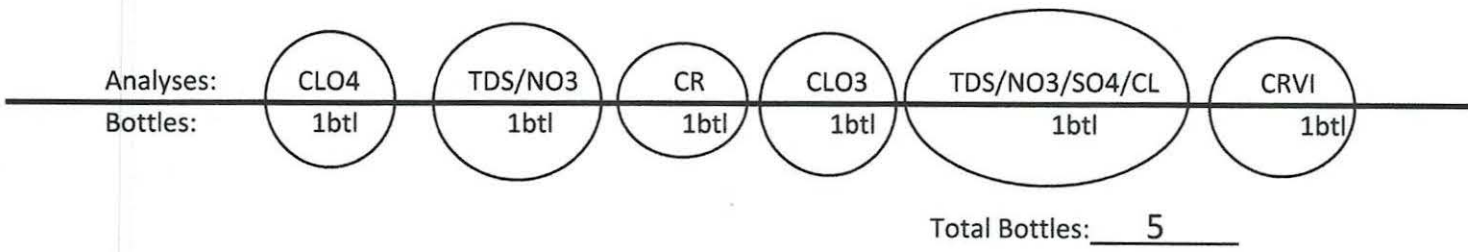
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1014</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>26.08</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1035</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1036</b>	<b>7.82</b> <small>pH</small>	<b>5.95</b> <small>mS/Cm</small>	<b>21.3</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1039</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

**ART-1A 2023 12 14 - EB**  
 Collected for the same analysis before moving on to the next well  
 PH: ~~7.2~~ <sup>7.2</sup> 6.52  
 EC: 0.07  
 C: 17.3  
 time: 1037

# WATER SAMPLING FIELD LOG

	Well: <b>ART-2*</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>55° Sunny</b>	

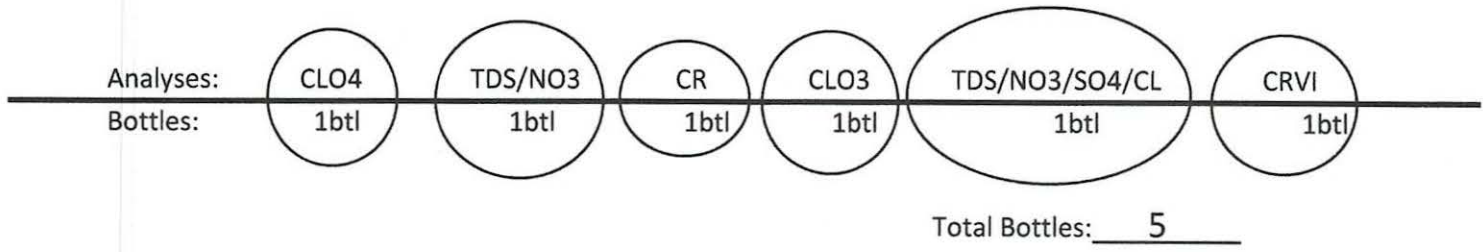
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1019</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>27.6**</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1041</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1042</b>	<b>7.44</b> <small>pH</small>	<b>12.14</b> <small>mS/Cm</small>	<b>24.2</b> <small>°C</small>	<b>* ART-2 and ART-2A running concurrently, bottles labeled ART-2/2A 2023 12 14.</b> <b>** measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>1045</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>ART-2A*</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>55° sunny</b>	

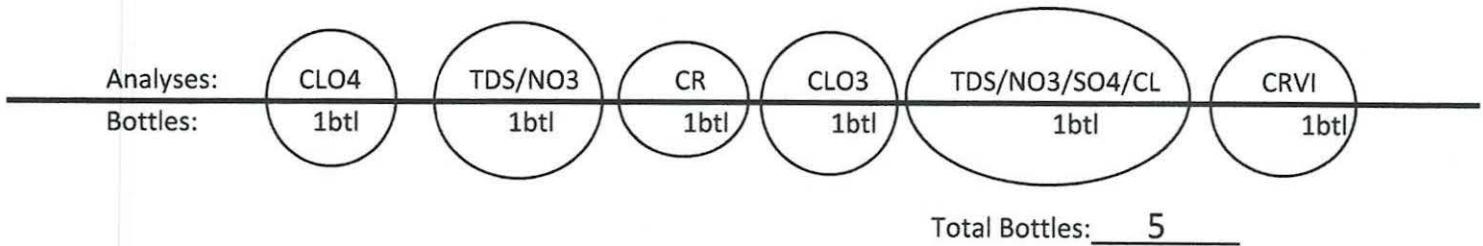
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1018</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>29.30</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time:
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>See ART-2</b>	pH	mS/Cm	°C	<b>* ART-2 and ART-2A running concurrently. Bottles labeled ART-2/2A 2023 12/14.</b>	
Sample Appearance:					
Finish Time:					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-3**

Date(s): **12/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method: **n/a**  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **55° sunny**

DTW ONLY

**Well Depth Information-** Date: **12/14/23** Time: **1026**

Total Well Depth(ft): NM  
( 'NM' - No measurement taken, manually measured annually)

Depth to Water(ft): **31.42**  
 Manually Taken at Well  Taken at Control Panel

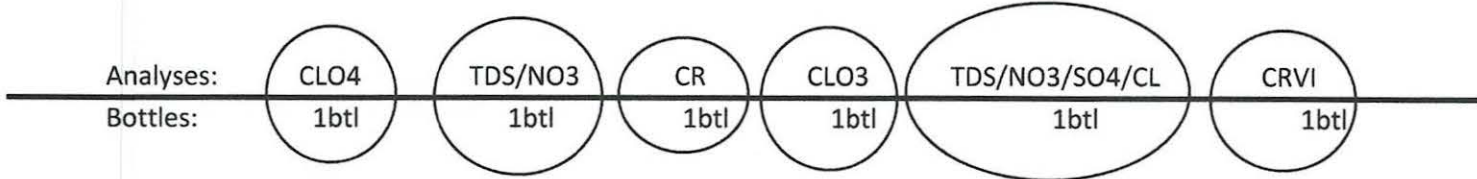
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~Field Measurements-~~ Date: **12/14/23** Start Time:

Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-3A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>55° Sunny</b>	

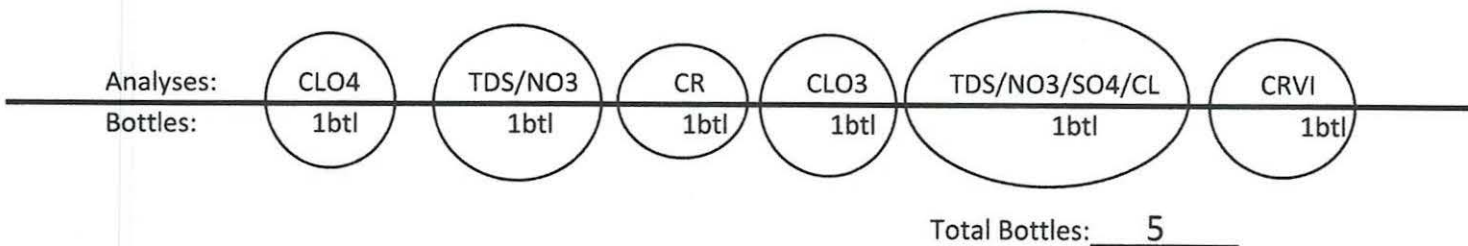
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1027</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.35</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1046</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1047</b>	<b>7.52</b> <small>pH</small>	<b>10.55</b> <small>mS/Cm</small>	<b>23.7</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1050</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>ART-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>55° Sunny</b>	

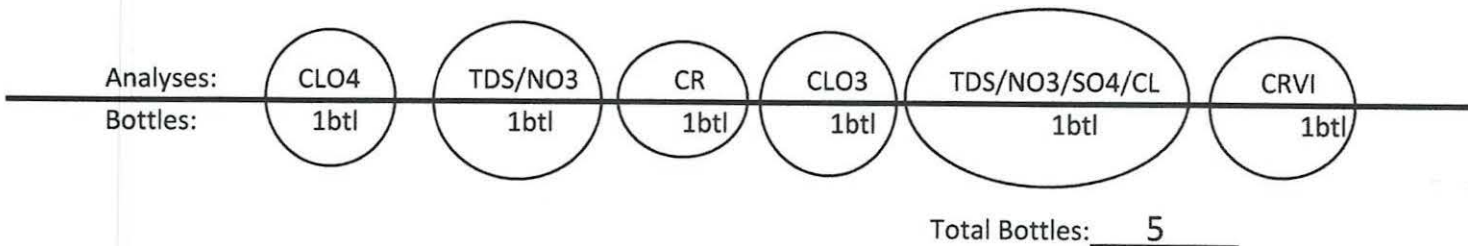
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1029</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>33.18</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1050</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1051</b>	<b>7.65</b> <small>pH</small>	<b>7.04</b> <small>mS/Cm</small>	<b>23.7</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1053</b>					



DUP EC Reading	QC
<b>7.02</b> <small>mS/Cm</small>	<b>7.02</b> <small>pH</small>
<b>23.7</b> <small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>ART-4A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <b>n/a</b> <input type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>55° sunny</b>	

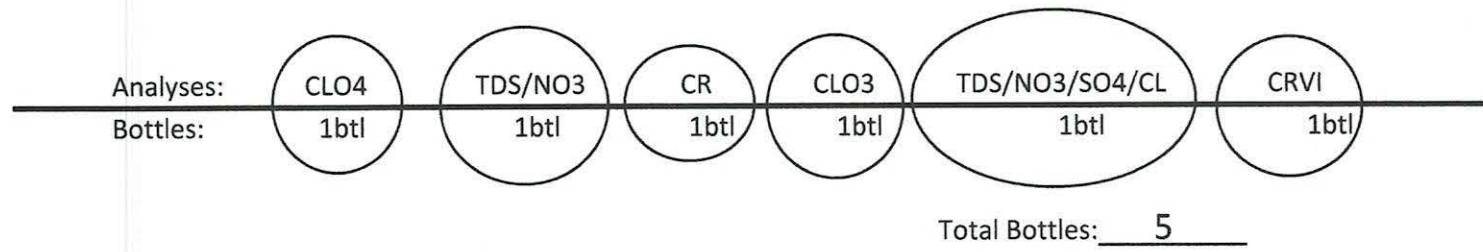
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1030</b>
Total Well Depth(ft): NM <small>('NM' - No measurement taken, manually measured annually)</small>		
Depth to Water(ft): <b>30.95*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time:
Sample Time	pH	EC/MC	Temp	Well Observations	
	pH	mS/Cm	°C	<b>*measured 2x</b>	
Sample Appearance:					
Finish Time:					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

	Well: <b>ART-7A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>55° sunny</b>	

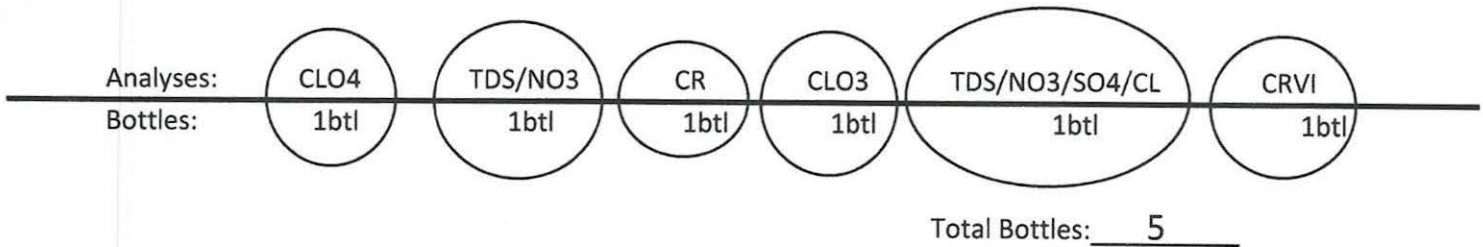
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1000</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>27.91*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1054</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1055</b>	<b>7.63</b> <small>pH</small>	<b>8.50</b> <small>mS/Cm</small>	<b>23.4</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>1057</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-7B**

Date(s): **12/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **55° Sunny**

DTW ONLY

**Well Depth Information-** Date: **12/14/23** Time: **1001**

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **27.49**  
 Manually Taken at Well  Taken at Control Panel

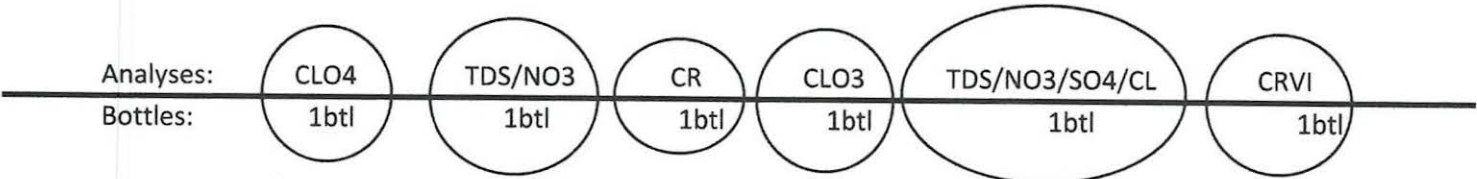
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~Field Measurements-~~ Date: **12/14/23** Start Time: \_\_\_\_\_

Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **ART-8**

Date(s): **12/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method: **n/a**  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **55° Sunny**

DTW ONLY

**Well Depth Information-** Date: **12/14/23** Time: **1024**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **30.32**  
 Manually Taken at Well  Taken at Control Panel

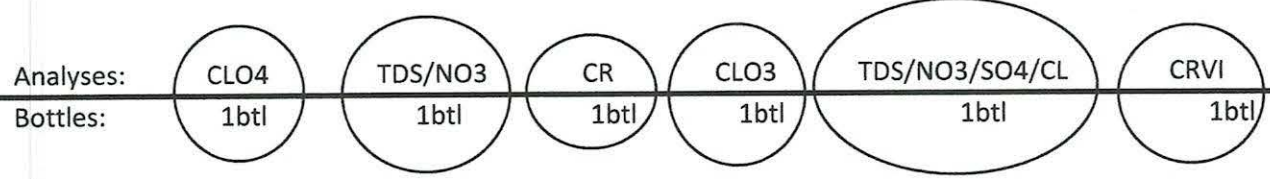
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

~~**Field Measurements-** Date: **12/14/23** Start Time:~~

Sample Time	pH	EC/MC	Temp	Well Observations
	pH	mS/Cm	°C	
Sample Appearance:				
Finish Time:				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

	Well: <b>ART-8A</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>56° Sunny</b>	

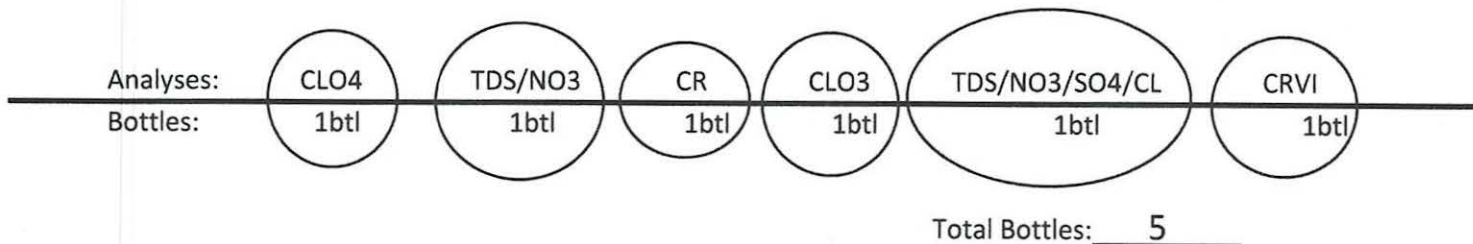
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1023</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>37.14</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>					Date: <b>12/14/23</b>	Start Time: <b>1058</b>
Sample Time	pH	EC/MC	Temp	Well Observations		
<b>1059</b>	<b>7.44</b> <small>pH</small>	<b>1239</b> <small>mS/Cm</small>	<b>23.8</b> <small>°C</small>			
Sample Appearance: <b>clear</b>						
Finish Time: <b>1101</b>						



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: ART-9

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 55° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 1005

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 31.09\*  
 Manually Taken at Well  Taken at Control Panel

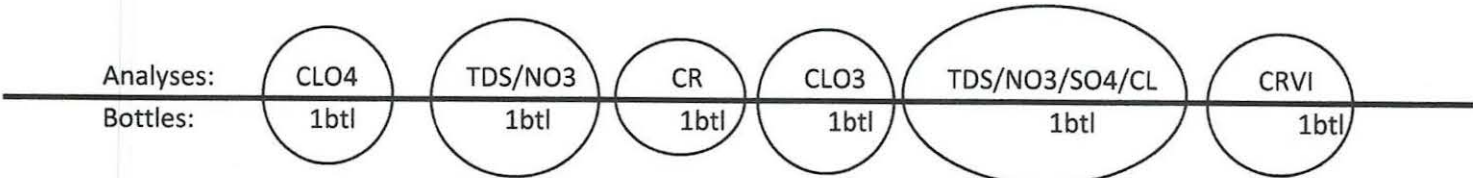
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 1102

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1103</u>	<u>7.63</u> pH	<u>7.09</u> mS/Cm	<u>24.2</u> °C	<u>*measured 2x</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>1105</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>PC-150</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>55° Sunny</b>	

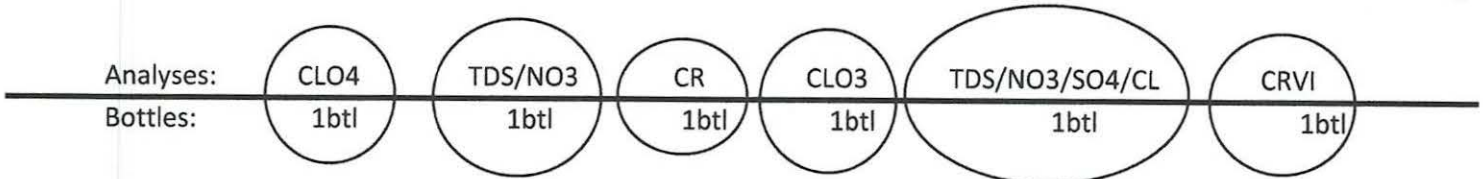
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>1033</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>41.60*</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>1106</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1107</b>	<b>7.58</b> <small>pH</small>	<b>7.10</b> <small>mS/Cm</small>	<b>24.5</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>1112</b>					



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

**PC-150 2023 12 14 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 PH: 7.58  
 EC: 7.08  
 C: 24.5

# WATER SAMPLING FIELD LOG

Well: **PC-99R2/R3**

Date(s): **12/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: **Emily McGuire**

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **48° sunny**

DTW ONLY

**Well Depth Information-** Date: **12/14/23** Time: **0700**

Total Well Depth(ft): **NM**  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **10.23**  
 Manually Taken at Well  Taken at Control Panel

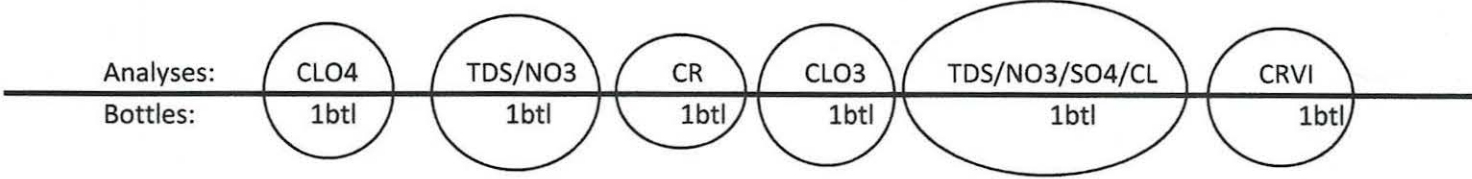
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **12/14/23** Start Time: **0906**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0907</b>	<b>7.54</b> <small>pH</small>	<b>2.96</b> <small>mS/Cm</small>	<b>21.6</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>0913</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

**PC-99R2/R3 2023 12/14 - FD**  
 Collected at the same time for the same analysis before moving on to the next well.  
 pH: 7.54  
 EC: 2.95  
 C: 21.6



## WATER SAMPLING FIELD LOG

	Well: <b>PC-115R</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: Emily McGuire	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>49° Sunny</b>	

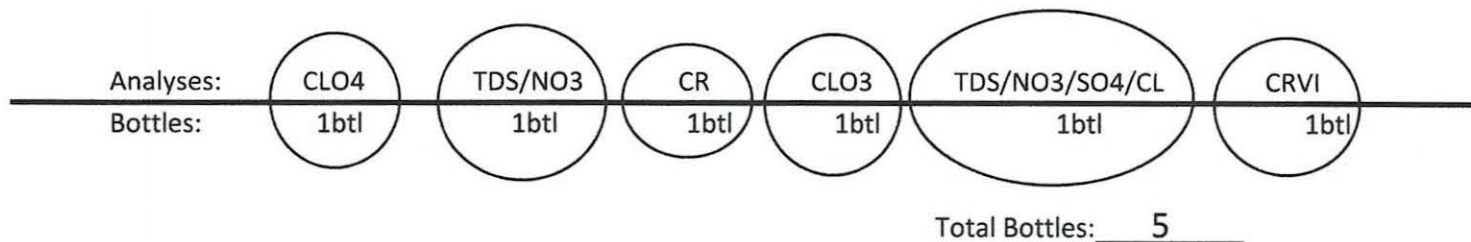
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>0829</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>8.6</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>0929</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0930</b>	<b>7.63</b> <small>pH</small>	<b>2.86</b> <small>mS/Cm</small>	<b>21.4</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>0937</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

PC-115R 2023 12/14 - EB

Collected for the same analysis before moving on to the next well.

PH: 6.79  
 EC: 0.07  
 C: 17.4  
 Time: 0933



## WATER SAMPLING FIELD LOG

Well: **PC-116R**

Date(s): **12/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **99° Sunny**

DTW ONLY

**Well Depth Information-** Date: **12/14/23** Time: **0821**

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **11.79\***  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **12/14/23** Start Time: **0938**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0939</b>	<b>7.62</b> pH	<b>3.20</b> mS/Cm	<b>21.6</b> °C	<b>*measured 2x</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0942</b>				

Analyses:

CLO4

TDS/NO3

CR

CLO3

TDS/NO3/SO4/CL

CRVI

Bottles:

1btl

1btl

1btl

1btl

1btl

1btl

Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: PC-117

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 48° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 0817

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 16.07\*  
 Manually Taken at Well  Taken at Control Panel

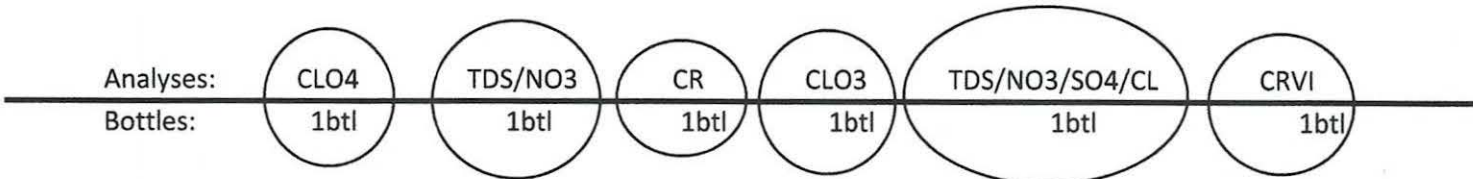
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 0855<sup>aw</sup> - 0901

Sample Time	pH	EC/MC	Temp	Well Observations
<u>080902<sup>aw</sup></u>	<u>7.31</u> pH	<u>3.25</u> mS/Cm	<u>20.9</u> °C	<u>*measured 2x</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0905</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: **PC-118**

Date(s): **12/14/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **49° Sunny**

DTW ONLY

**Well Depth Information-** Date: **12/14/23** Time: **0832**

Total Well Depth(ft): NM  
('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **5.33\***  
 Manually Taken at Well  Taken at Control Panel

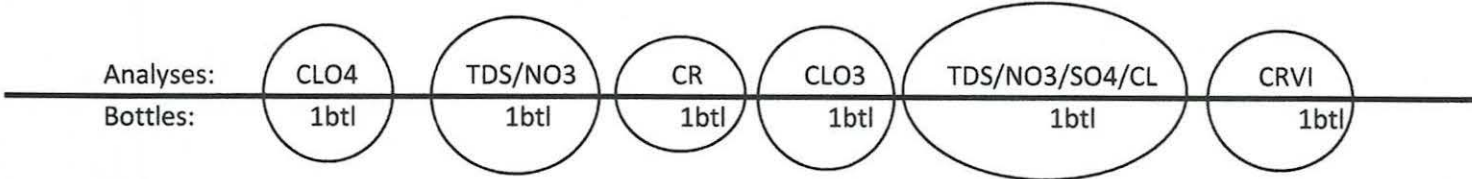
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **12/14/23** Start Time: **0914**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>0915</b>	<b>7.52</b> <small>pH</small>	<b>3.97</b> <small>mS/Cm</small>	<b>21.0</b> <small>°C</small>	<b>* measured 2x</b>
Sample Appearance: <b>clear</b>				
Finish Time: <b>0918</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

Well: PC-119

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: Sunny 48°

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 0838

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): 3.69  
 Manually Taken at Well  Taken at Control Panel

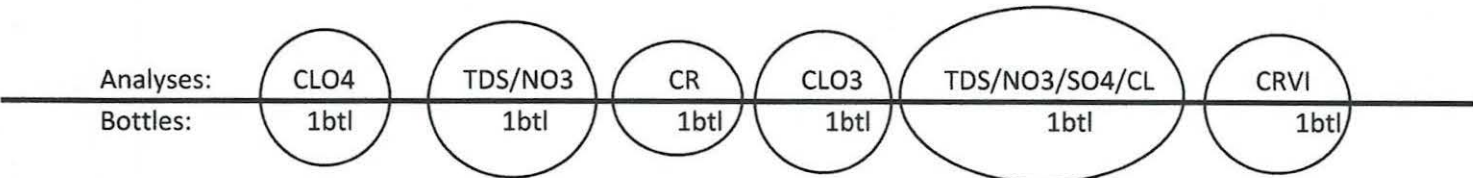
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 0851

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0852</u>	<u>6.89</u> pH	<u>3.25</u> mS/Cm	<u>20.3</u> °C	
Sample Appearance: <u>clear</u>				
Finish Time: <u>0855</u>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: PC-120

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 49° Sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 0841

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): 2.66\*  
 Manually Taken at Well  Taken at Control Panel

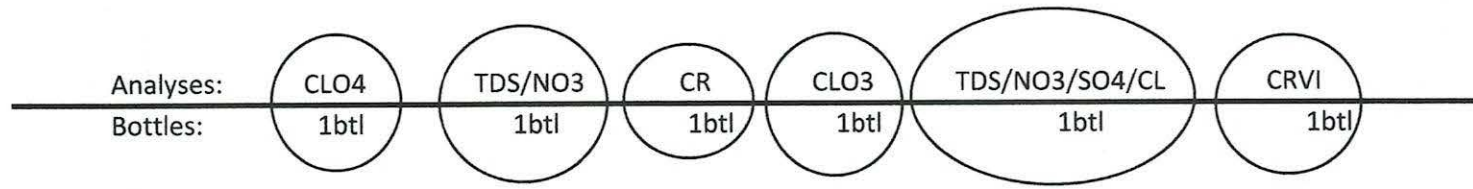
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 0919

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0920</u>	<u>7.57</u> <small>pH</small>	<u>2.82</u> <small>mS/Cm</small>	<u>19.2</u> <small>°C</small>	<u>*measured 2x</u>
Sample Appearance: <u>clear</u>				
Finish Time: <u>0923</u>				



DUP EC Reading	QC
<u>2.84</u> <small>mS/Cm</small>	<u>7.02</u> <small>pH</small>
<u>19.0</u> <small>°C</small>	



# WATER SAMPLING FIELD LOG

Well: PC-121

Date(s): 12/14/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 49° sunny

DTW ONLY

**Well Depth Information-** Date: 12/14/23 Time: 0846

Total Well Depth(ft): NM  
('NM' - No measurement taken, manually measured annually)

Depth to Water(ft): 1.72  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

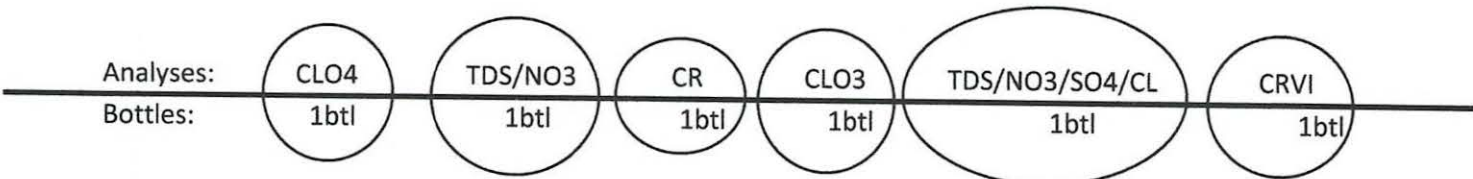
Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/14/23 Start Time: 0923

Sample Time	pH	EC/MC	Temp	Well Observations
<u>0924</u>	<u>7.61</u> <small>pH</small>	<u>2.72</u> <small>mS/Cm</small>	<u>18.4</u> <small>°C</small>	

Sample Appearance: clear  
 Finish Time: 0928



Total Bottles: 5

DUP EC Reading	QC
<small>mS/Cm</small>	<small>pH</small>
<small>°C</small>	



## WATER SAMPLING FIELD LOG

	Well: <b>PC-133</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/14/23</b>
Sampling Team: <b>Emily McGuire</b>	
Sampling Method: <input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location	
Weather Conditions: <b>Sunny 48°</b>	

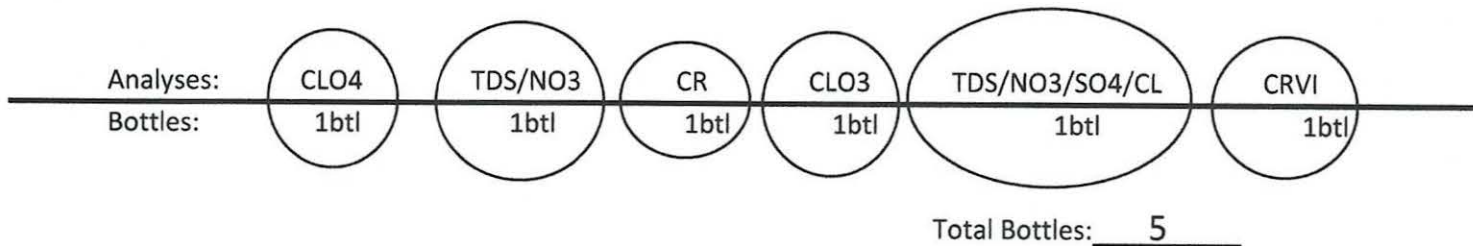
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/14/23</b>	Time: <b>0810</b>
Total Well Depth(ft): <b>NM</b> <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft): <b>24.40*</b>		
<input checked="" type="checkbox"/> Manually Taken at Well <input type="checkbox"/> Taken at Control Panel		
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/14/23</b>	Start Time: <b>0856</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>0857</b>	<b>7.06</b> <small>pH</small>	<b>3.52</b> <small>mS/Cm</small>	<b>20.6</b> <small>°C</small>	<b>*measured 2x</b>	
Sample Appearance: <b>clear</b>					
Finish Time: <b>0900</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

# WATER SAMPLING FIELD LOG

Well: **E1-1**

Date(s): **12/6/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **67° sunny**

**DTW ONLY**

**Well Depth Information-** Date: **12/6/23** Time: **1100**

Total Well Depth(ft): NM  
(‘NM’) - No measurement taken, manually measured annually)

Depth to Water(ft): **45.72**  
 Manually Taken at Well  Taken at Control Panel

Height of Water Column(ft):

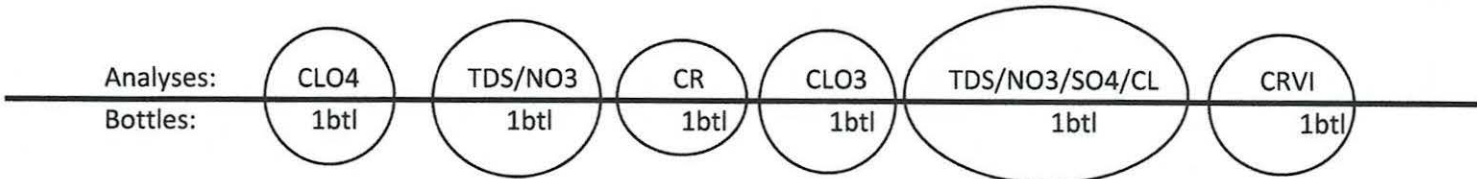
**Well Purge Required**

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **12/6/23** Start Time: **1116**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1117</b>	<b>6.74</b>	<b>4.915.07</b>	<b>25.8</b>	

Sample Appearance: **clear**  
Finish Time: **1123**



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

	Well: <b>E1-2</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/6/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>67° sunny</b>	

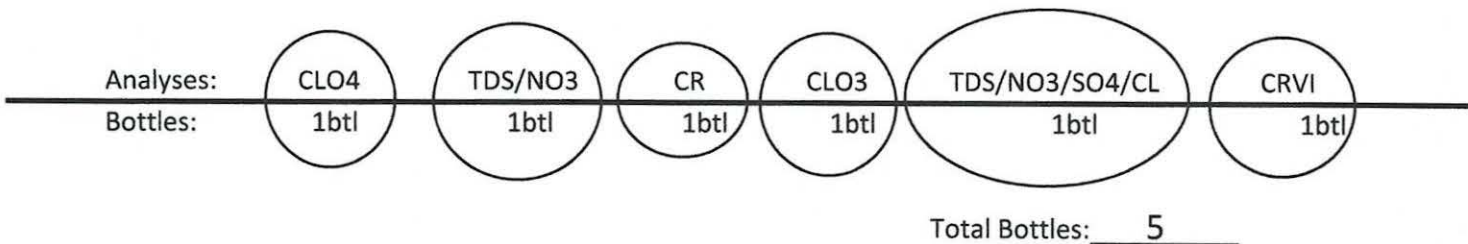
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/6/23</b>	Time: <b>1102</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>45.17</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/06/23</b>	Start Time: <b>1131</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1132</b>	<b>6.95</b> <small>pH</small>	<b>6.62</b> <small>mS/Cm</small>	<b>25.5</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1137</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	



# WATER SAMPLING FIELD LOG

	Well: <b>E1-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/6/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>67° sunny</b>	

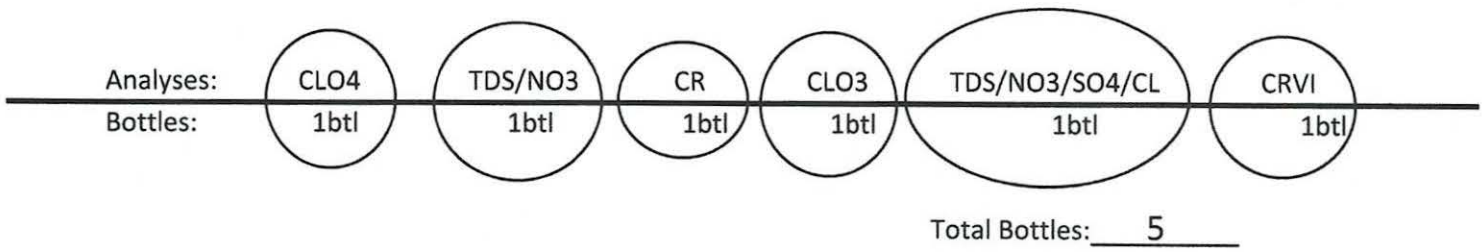
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/6/23</b>	Time: <b>1104</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>39.48</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>12/06/23</b>	Start Time: <b>1137</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>1138</b>	<b>7.14</b> <small>pH</small>	<b>6.04</b> <small>mS/Cm</small>	<b>25.5</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>1142</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	

## WATER SAMPLING FIELD LOG

Well: **E2-1**

Date(s): **12/6/23**

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: **67° sunny**

DTW ONLY

**Well Depth Information-** Date: **12/6/23** Time: **1144**

Total Well Depth(ft): NM  
 ('NM') - No measurement taken, manually measured annually

Depth to Water(ft): **48.60**  
 Manually Taken at Well  Taken at Control Panel

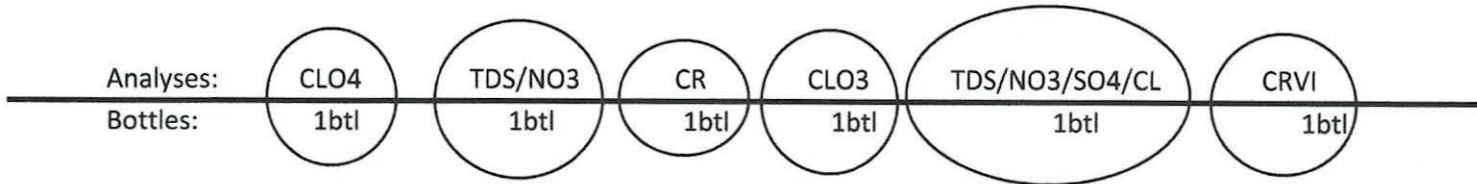
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: **12/06/23** Start Time: **1154**

Sample Time	pH	EC/MC	Temp	Well Observations
<b>1155</b>	<b>7.31</b> pH	<b>3.72</b> mS/Cm	<b>25.7</b> °C	
Sample Appearance: <b>clear</b>				
Finish Time: <b>1159</b>				



Total Bottles: 5

DUP EC Reading	QC
mS/Cm	pH
°C	



## WATER SAMPLING FIELD LOG

Well: E2-2

Date(s): 12/6/23

Project/Site: NERT Project - Henderson Nevada

Sampling Team: Emily McGuire

Sampling Method:  Collected From Sample Port  Hand Bailed due to well Location

Weather Conditions: 67° sunny

DTW ONLY

**Well Depth Information-** Date: 12/6/23 Time: 1146

Total Well Depth(ft): NM  
( 'NM' ) - No measurement taken, manually measured annually

Depth to Water(ft): 43.87  
 Manually Taken at Well  Taken at Control Panel

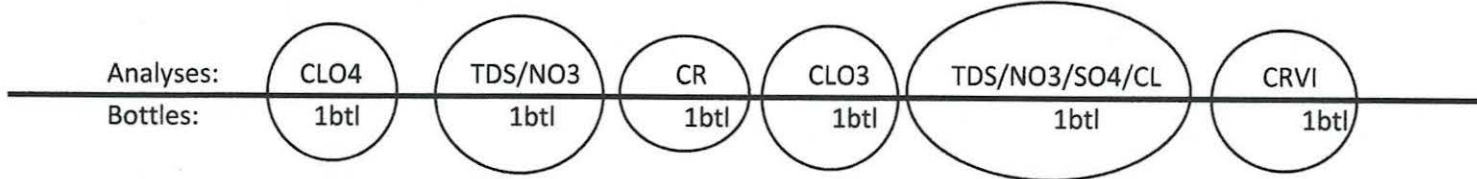
Height of Water Column(ft):

Well Purge Required

Turned pump on at \_\_\_\_\_, flowing at \_\_\_\_\_ gpm. Purged for \_\_\_\_\_ minutes, \_\_\_\_\_ minutes required per well purge spreadsheet. Turned well off at \_\_\_\_\_.

**Field Measurements-** Date: 12/6/23 Start Time: 1200

Sample Time	pH	EC/MC	Temp	Well Observations
<u>1201</u>	<u>7.28</u> pH	<u>4.31</u> mS/Cm	<u>23.6</u> °C	
Sample Appearance: <u>clear</u>				
Finish Time: <u>1205</u>				



Total Bottles: 5

DUP EC Reading	QC
<u>4.33</u> mS/Cm	<u>7.00</u> pH
<u>23.6</u> °C	



## WATER SAMPLING FIELD LOG

	Well: <b>82-3</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/6/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>67° sunny</b>	

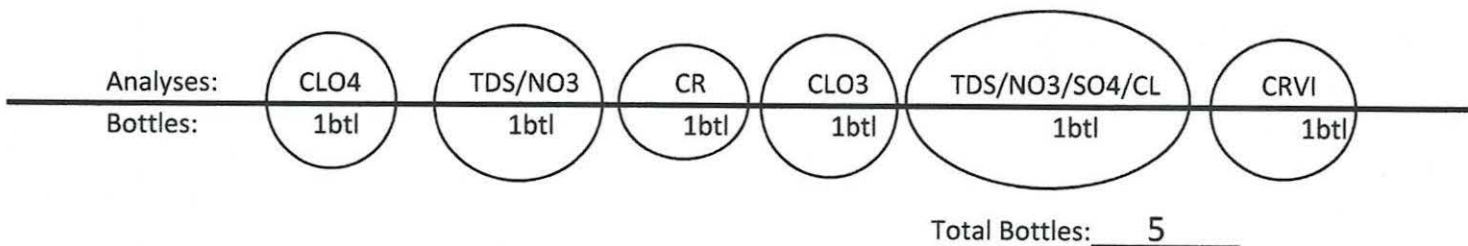
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/6/23</b>	Time: <b>1148</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>42.73</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/6/23</b>	Start Time: <b>1205</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1206</b>	<b>7.34</b> <small>pH</small>	<b>5.34</b> <small>mS/Cm</small>	<b>25.4</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1213</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	

82-3 2023 12 06 - FD

Collected at the same time for the same analysis before moving on to the next well.

PH: 7.35  
EC: 5.36    C: 25.1

# WATER SAMPLING FIELD LOG

	Well: <b>22-4</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/6/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>67° sunny</b>	

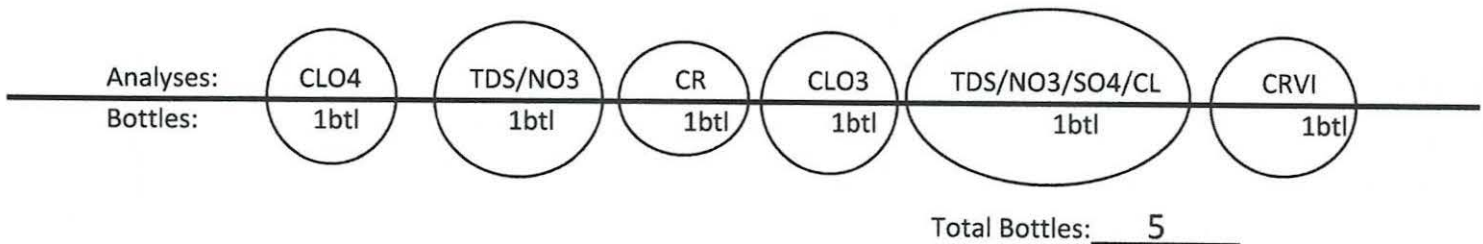
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/6/23</b>	Time: <b>1150</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually</small>		
Depth to Water(ft):	<b>41.34</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>		Date: <b>12/6/23</b>	Start Time: <b>1214</b>	
Sample Time	pH	EC/MC	Temp	Well Observations
<b>1215</b>	<b>7.48</b> <small>pH</small>	<b>5.77</b> <small>mS/Cm</small>	<b>24.9</b> <small>°C</small>	
Sample Appearance: <b>clear</b>				
Finish Time: <b>1221</b>				



DUP EC Reading	QC
mS/Cm	pH
°C	

22-4 2023 12 06 - EB  
 Collected ~~at the same time~~ <sup>at</sup> for the same analysis before moving on to the next well.  
 pH: 6.03  
 EC: 0.08  
 C: 16.6  
 Time: 1218



# WATER SAMPLING FIELD LOG

	Well: <b>EZ-5</b>
Project/Site: NERT Project - Henderson Nevada	Date(s): <b>12/6/23</b>
Sampling Team: Emily McGuire	
Sampling Method:	<input checked="" type="checkbox"/> Collected From Sample Port <input type="checkbox"/> Hand Bailed due to well Location
Weather Conditions: <b>67° sunny</b>	

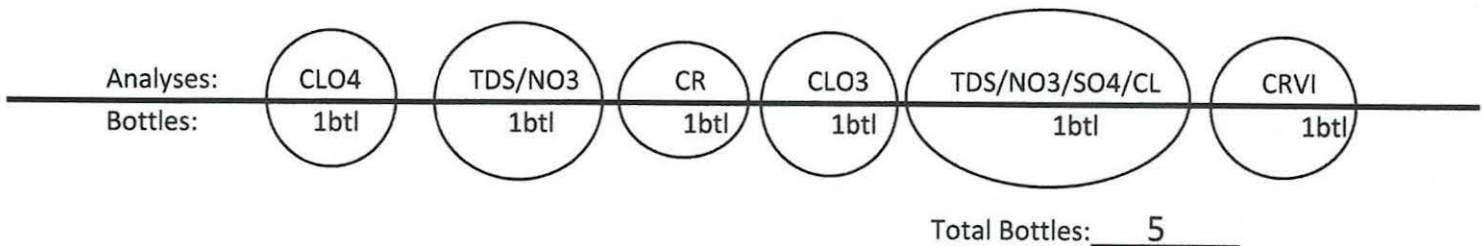
DTW ONLY

<b>Well Depth Information-</b>	Date: <b>12/6/23</b>	Time: <b>1152</b>
Total Well Depth(ft): NM <small>('NM') - No measurement taken, manually measured annually)</small>		
Depth to Water(ft):	<b>48.20</b>	
	<input checked="" type="checkbox"/> Manually Taken at Well	<input type="checkbox"/> Taken at Control Panel
Height of Water Column(ft):		

Well Purge Required

Turned pump on at _____, flowing at _____ gpm. Purged for _____ minutes, _____ minutes required per well purge spreadsheet. Turned well off at _____.
---

<b>Field Measurements-</b>				Date: <b>12/06/23</b>	Start Time: <b>1221</b>
Sample Time	pH	EC/MC	Temp	Well Observations	
<b>1222</b>	<b>7.17</b> <small>pH</small>	<b>6.29</b> <small>mS/Cm</small>	<b>26.2</b> <small>°C</small>		
Sample Appearance: <b>clear</b>					
Finish Time: <b>1227</b>					



DUP EC Reading	QC
mS/Cm	pH
°C	







# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 12/6/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	1042 EM
Temp Comp Value	25	
Calibration Value	1291	
Standard Temp	25.0	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.00	1044 EM
Calibration Value	7.01	5.99	
Buffer Temp	24.8	24.9	
Changed Buffers	Yes <input type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
92-2	4.31	23.6	4.33	23.6

QC's
7.00
Closing QC
7.00

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By:



## DAILY SAMPLING RIG INSPECTION SHEET

Date: 12/16/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 1045
Wells to be sampled today: APS		
Dangers and hazards with wells to be sampled: Hexachrome/vaults		
Name: Emily McGuire	Signature: E. McGuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 1050
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 1055
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





## DAILY SAMPLING RIG INSPECTION SHEET

Date: 12/7/23

Completed By: Emily McQuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0645
Wells to be sampled today: 1WF		
Dangers and hazards with wells to be sampled: Hexachrome		
Name: Emily McQuire	Signature: E. McQuire	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0650
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0655
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 12/7/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0700 EM
Temp Comp Value	25	
Calibration Value	1287	
Standard Temp	24.5	
Changed Buffers Yes <input checked="" type="checkbox"/>		

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.00	0657
Calibration Value	7.01	5.98	
Buffer Temp	24.6	25.3	
Changed Buffers Yes <input checked="" type="checkbox"/>			

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-AR	6.00	23.0	6.00	23.0
1-X	8.67	24.5	8.67	24.5
<del>0730</del>				

QC's
6.97
6.98
Closing QC
6.98

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: E. M. [Signature]







# DAILY MAINTENANCE AND CALIBRATION LOG

Date: 12/12/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0814 Em
Temp Comp Value	25	
Calibration Value	1290	
Standard Temp	25.1	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.00	0810 Em
Calibration Value	7.01	5.99	
Buffer Temp	25.0	25.2	
Changed Buffers	Yes <input type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
1-P	8.64	26.0	8.63	26.0

QC's
6.99
Closing QC
7.00


G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790  
 DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: Em

### DAILY SAMPLING RIG INSPECTION SHEET

Date: 12/12/23

Completed By: Emily McGuire

<b>Pre Sampling Safety Meeting-</b>		Time: 0800
Wells to be sampled today: IWF East		
Dangers and hazards with wells to be sampled: Hexachrome		
Name: Emily McGuire	Signature: 	
Name:	Signature:	

<b>Sampling Equipment Inspection-</b>		Time: 0805
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Coolers		
<input type="checkbox"/> Forms		
<input type="checkbox"/> pH probe (calibrated)		
<input type="checkbox"/> DTW meter		
<input type="checkbox"/> Vault Keys		
<input type="checkbox"/> Water		
<input type="checkbox"/> PPE		

<b>Vehicle Inspection-</b>		Time: 0808
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>
<input type="checkbox"/> Tires and Lug Nuts		
<input type="checkbox"/> Steering Wheel		
<input type="checkbox"/> Lights		
<input type="checkbox"/> Horn		
<input type="checkbox"/> Radiator Fluid		
<input type="checkbox"/> Engine Oil		
<input type="checkbox"/> Parking Brake		
<input type="checkbox"/> Brakes and Brake Fluid		
Check Gauges		
<input type="checkbox"/> Oil Light		
<input type="checkbox"/> Battery Light		





# ETI Daily Sampling Log Sheet

Date: 12/14/23		Well Field(s): AWF/SWF/IWF		Start Time: 0700	Finish Time: 1232
Time In	Time Out	Name	Signature	Company/Purpose	
0700	1232	Emily McQuire	E. McQuire	ETI/Sampling	
Time	Observation				
0700	Collected PLC DTW's				
0705	Presampling prep				
0719	Calibrated pH/EC meter				
0738	Drove to SWF and collected DTW's				
0851	Started sampling SWF.				
0942	Completed SWF, drove to AWF and collected DTW's				
1035	Sampled AWF				
1112	Completed AWF and drove to Borman.				
1146	Sampled Borman IWF				
1232	Completed sampling and drove back to plant.				
Completed By: E. McQuire					

## DAILY SAMPLING RIG INSPECTION SHEET

Date:

Completed By:

<b>Pre Sampling Safety Meeting-</b>		Time: <span style="color: blue; font-size: 1.2em;">0705</span>
Wells to be sampled today:		
Dangers and hazards with wells to be sampled:		
Name:		Signature:
Name:		Signature:

<b>Sampling Equipment Inspection-</b>		Time: <span style="color: blue; font-size: 1.2em;">0710</span>	
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>	
<input type="checkbox"/> Coolers			
<input type="checkbox"/> Forms			
<input type="checkbox"/> pH probe (calibrated)			
<input type="checkbox"/> DTW meter			
<input type="checkbox"/> Vault Keys			
<input type="checkbox"/> Water			
<input type="checkbox"/> PPE			

<b>Vehicle Inspection-</b>		Time: <span style="color: blue; font-size: 1.2em;">0715</span>	
Items To Be Checked	Issues Found	N/A <input checked="" type="checkbox"/>	
<input type="checkbox"/> Tires and Lug Nuts			
<input type="checkbox"/> Steering Wheel			
<input type="checkbox"/> Lights			
<input type="checkbox"/> Horn			
<input type="checkbox"/> Radiator Fluid			
<input type="checkbox"/> Engine Oil			
<input type="checkbox"/> Parking Brake			
<input type="checkbox"/> Brakes and Brake Fluid			
Check Gauges			
<input type="checkbox"/> Oil Light			
<input type="checkbox"/> Battery Light			





## DAILY MAINTENANCE AND CALIBRATION LOG

Date: 12/14/23

HANNA FIELD EC METER		Time/Analyst
Known Value	1288	0722 gm
Temp Comp Value	25	
Calibration Value	1289	
Standard Temp	25.3	
Changed Buffers	Yes <input checked="" type="checkbox"/>	

HANNA FIELD pH METER			Time/Analyst
Known Value	7.01	6.00	0719 gm
Calibration Value	7.01	5.99	
Buffer Temp	25.5	25.5	
Changed Buffers	Yes <input checked="" type="checkbox"/>		

Duplicate EC Reading(s)				
Well	1st EC	1st Temp	2nd EC	2nd Temp
PC-120	2.82	19.2	2.84	19.0
ART-4	7.04	23.7	7.02	23.7
I-J	5.84	24.0	5.85	24.0

QC's
7.02
7.02
7.00
Closing QC
7.02

G9TWD Meter Heron Instruments Dipper-T Well Depth Indicator Probe, Serial No: WD790

DTW Meter Geotech Water Level Meter, Serial No: 7053

Verified By: \_\_\_\_\_

*J.M.G.*



# TECHNICAL MEMORANDUM

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**To:** Chris Ritchie and Chris Stubbs, Ramboll

---

**Cc:** Steve Clough, Nevada Environmental Response Trust  
Mia Sosa, John Crowther, Jon Hunt, Emeryville Lab Data, Ramboll  
Dana Grady, Tetra Tech

---

**From:** Jesse Bunkers and Dylan Begley, Tetra Tech

---

**Date:** December 20, 2023

---

**Subject:** December 2023 Monthly Las Vegas Wash Surface Water Sampling  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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## MONTHLY SURFACE WATER SAMPLING ACTIVITIES

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At the direction of the Nevada Environmental Response Trust (NERT or Trust), Tetra Tech, Inc. (Tetra Tech) has prepared this summary for the December 2023 Las Vegas Wash (Wash) Surface Water Sampling event for the NERT Site.

The surface water sampling program includes 10 locations shown on **Figure 1** and described in the *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan (SAP), Revision 3* (Ramboll US Consulting, Inc. [Ramboll], 2022). On December 6, 2023, Tetra Tech visited the 10 sample locations within the Wash and collected 29 independent surface water samples in accordance with the SAP. Sample collection from the Wash was performed by wading into the Wash or by float tube. At each sample location, Tetra Tech measured the total depth of the Wash, recorded water quality field parameters, and collected a surface water sample. All surface water samples were collected at the approximated mid-water depth using the discrete hand-sampling technique described in the SAP.

Surface water samples were stored in coolers at 4 degrees Celsius and transferred under chain-of-custody documentation to Eurofins Environment Testing Southwest (Eurofins) in Phoenix, Arizona, following completion of sampling activities. All surface water samples were analyzed for perchlorate, chlorate, and total dissolved solids (TDS) using EPA Methods 314.0, 300.1B, and SM2540C, respectively. Analysis of TDS is not included in the SAP; however, discussions with Ramboll on February 9, 2023, identified that monthly surface water samples should be analyzed for TDS. The SAP tables will be revised to reflect this addition. The Eurofins laboratory reports are available via Eurofins' Total Access website.

Deviations from the SAP encountered during the December 2023 surface water sampling event are as follows:

- Field personnel were not able to access the designated location for LVW4.2-4 due to encroachment of bank vegetation. Therefore, a surface water sample was collected as close as possible to the designated

sample location, approximately 10 feet south of LVW4.2-4. The coordinates for the December 2023 surface water sample were recorded with a handheld GPS device and measured 36.09506° N, -114.95476° E.

- Field personnel were not able access the designated location for LVW5.3-2 due to encroachment of a sandbar. Therefore, a surface water sample was collected as close as possible to the designated sample location, approximately 12 feet south of LVW5.3-2. The coordinates for the December 2023 surface water sample were recorded with a handheld GPS device and measured 36.09001° N, -114.97327° E.
- There was no flow at surface water sample location C-12; therefore, no sample was collected in December 2023.
- There was no flow at sample location C1-E; therefore, no sample was collected.

The surface water sampling log is provided as **Attachment A**. The field investigation daily log and the calibration certification form are included as **Attachment B** and **Attachment C**, respectively. The electronic data deliverable with the recorded sample depths and field parameters will be transmitted in a separate Excel file.

## REFERENCES

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Ramboll US Consulting, Inc. 2022. *Groundwater and Surface Water Monitoring Program Sampling and Analysis Plan, Revision 3, Nevada Environmental Response Trust Site, Henderson, Nevada*. December 16.

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## CERTIFICATION

---

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been prepared in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations, and ordinances. I hereby certify that all laboratory analytical data was generated by a laboratory certified by the NDEP for each constituent and media presented herein.

**Description of Services Provided:** Prepared the December 2023 Monthly Las Vegas Wash Surface Water Sampling Summary.



**David S. Wilson, CEM**  
Principal Engineer  
Tetra Tech, Inc.

December 20, 2023

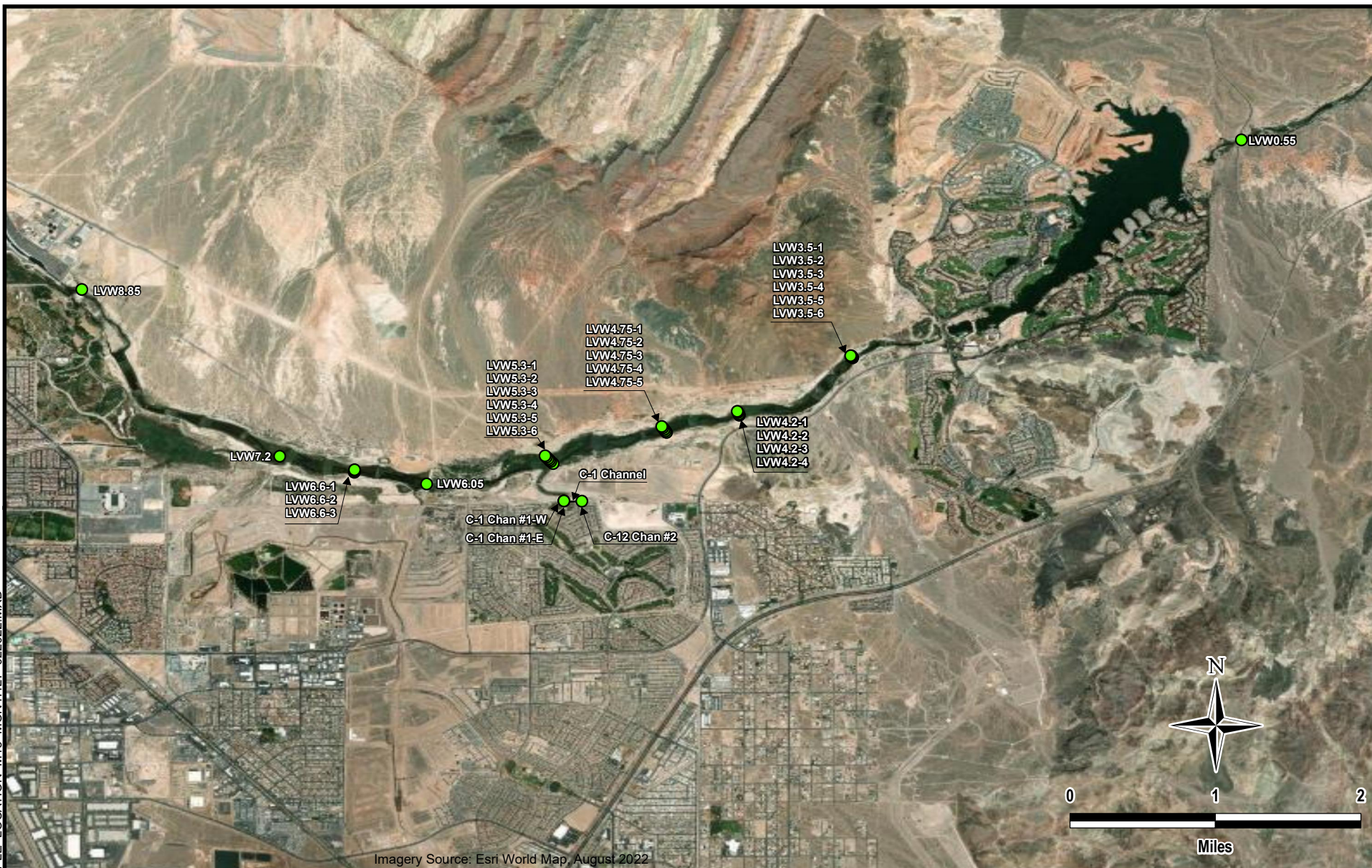
Date

Nevada CEM Certificate Number: 2385  
Nevada CEM Expiration Date: September 19, 2024



**Figure**

D:\INERTM15\MXD\SAMPLE LOCATION M15 MONTHLY 022022.MXD



**Legend**

- Monthly Sample Locations

**Tt TETRA TECH**

www.tetrattech.com

150 S. 4th Street, Unit A  
Henderson, Nevada 89015  
PHONE: (702) 854-2293

NEVADA ENVIRONMENTAL RESPONSE TRUST

LAS VEGAS WASH MONTHLY SAMPLING  
HENDERSON, NEVADA

**LAS VEGAS WASH SAMPLE POINT LOCATIONS**

Project No.: 117-7502023

Date: FEBRUARY 13, 2023

Designed By: AAM

Figure No.  
**1**

# **Attachment A**

## **Surface Water Sampling Logs**





**SURFACE WATER SAMPLING LOG**

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 12/6/2023
---------------------------------------	----------------------------	--------------	-----------------

Field Samplers: D. Begley, J. Heinz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
-------------------------------------	--------------------------------	-----------------------------------

Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
11:45	C1-W	0.0	0.0	20.5	8.03	3.837	9.04	220.4	0.5	Clear	None
08:00	LVW 0.55	3.0	1.5	17.6	7.35	0.835	9.24	258.1	4.8	Clear	None
08:45	LVW 3.5-1	2.8	1.4	17.4	7.87	0.908	9.03	229.7	3.6	Clear	None
08:45	LVW 3.5-2	2.8	1.4	17.6	7.84	1.852	9.01	229.7	1.5	Clear	None
08:45	LVW 3.5-3	2.4	1.2	17.4	7.89	0.919	9.13	224.9	3.8	Clear	None
08:45	LVW 3.5-4	2.4	1.2	17.4	7.91	1.824	9.20	222.1	3.2	Clear	None
08:45	LVW 3.5-5	2.4	1.2	17.7	7.92	1.830	9.29	220.5	3.0	Clear	None
08:45	LVW 3.5-6	3.6	1.8	17.4	7.87	1.804	9.04	219.6	4.3	Clear	None
09:30	LVW 4.2-1	3.6	1.8	18.4	7.98	1.878	8.99	227.8	4.2	Clear	None
09:30	LVW 4.2-2	6.4	3.2	18.5	7.97	1.871	8.91	225.4	3.5	Clear	None
09:30	LVW 4.2-3	5.0	2.5	18.7	8.08	1.878	8.93	230.5	3.1	Clear	None
09:30	LVW 4.2-4	3.2	1.6	18.5	8.08	1.855	8.98	232.7	4.1	Clear	None
10:15	LVW 4.75-1	3.4	1.7	19.0	7.98	1.951	8.99	226.7	5.9	Clear	None
10:15	LVW 4.75-2	2.6	1.3	19.1	7.98	1.935	9.04	224.6	3.5	Clear	None
10:15	LVW 4.75-3	2.6	1.3	19.0	8.07	1.896	9.21	222.0	4.0	Clear	None
10:15	LVW 4.75-4	3.0	1.5	19.2	8.09	1.894	9.29	219.4	4.0	Clear	None
10:15	LVW 4.75-5	2.6	1.3	19.1	8.07	1.893	9.29	219.5	4.8	Clear	None
11:00	LVW 5.3-1	2.2	1.1	20.5	8.23	1.986	9.12	216.5	3.7	Clear	None
11:00	LVW 5.3-2	5.2	2.6	20.3	8.30	1.975	9.11	212.4	2.6	Clear	None
11:00	LVW 5.3-3	1.4	0.7	20.7	8.30	1.996	9.28	213.2	3.8	Clear	None
11:00	LVW 5.3-4	2.6	1.3	21.0	8.26	2.013	9.08	211.0	3.2	Clear	None
11:00	LVW 5.3-5	2.2	1.1	21.1	8.26	2.015	9.03	209.4	5.4	Clear	None
11:00	LVW 5.3-6	2.8	1.4	21.3	8.21	2.026	9.05	208.8	4.8	Clear	None
12:15	LVW 6.05	1.2	0.6	21.0	8.48	2.092	9.70	210.7	3.5	Clear	None
12:30	LVW 6.6-1	2.0	1.0	21.7	8.43	1.919	8.96	206.0	3.2	Clear	None
12:30	LVW 6.6-2	7.0	3.5	21.2	8.37	1.911	8.87	205.6	4.2	Clear	None
12:30	LVW 6.6-3	3.0	1.5	21.2	8.45	1.869	9.08	202.0	2.7	Clear	None
13:00	LVW 7.2	3.6	1.8	23.0	8.50	1.807	8.78	203.1	1.4	Clear	None



**SURFACE WATER SAMPLING LOG**

Task Name: LVW Surface Water Sampling	Task Manager: Dylan Begley	Task No: M15	Date: 12/6/2023
---------------------------------------	----------------------------	--------------	-----------------

Field Samplers: D. Begley, J. Heinz	Sampling Method: Dipper Bottle	Equipment Decon. Method: DI Rinse
-------------------------------------	--------------------------------	-----------------------------------

Time	Location ID	Depth of Water (ft)	Depth of Sample (ft)	Temp. (°C)	pH (pH Units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	Color	Odor
14:00	LVW 8.85	0.8	0.4	23.7	8.59	1.740	8.48	199.7	0.8	Clear	None

QA/QC Samples/ID: LVW0.55-1.5-20231206-FD	QA/QC Samples/ID: LVW0.55-20231206-FB	QA/QC Samples/ID: LVW6.05-0.6-20231206-FD
---	---------------------------------------	---

QA/QC Sample Time: 08:00	QA/QC Sample Time: 08:00	QA/QC Sample Time: 12:15
--------------------------	--------------------------	--------------------------

QA/QC Samples/ID: LVW6.05-20231206-FB	QA/QC Samples/ID: LVW7.2-1.8-20231206-FD	QA/QC Samples/ID:
---------------------------------------	--	-------------------

QA/QC Sample Time: 12:15	QA/QC Sample Time: 13:00	QA/QC Sample Time:
--------------------------	--------------------------	--------------------

<b>C1-E</b>	Flow (L/s): _____	<b>C1-W</b>	Flow (L/s): 0.52	<b>C-12</b>	Flow (L/s): _____
	Width (ft): _____ Depth (ft): _____		Width (ft): 0.49 Depth (ft): 0.09		Width (ft): _____ Depth (ft): _____

**Observations/Comments: C-12, C1-E were dry and not sampled.**

**Attachment B**  
**Field Investigation Daily Logs**





Task Name: LVW Surface Water Sampling      Task Manager: Dylan Begley      Date: 12/16/23  
 Field Personnel: DB, JH      Task No: M15  
 Location: Las Vegas Wash      Tablet #: 1      Reported by: DB

Weather Conditions: Clear, calm, high-75°F

Total Vehicle Mileage: 25

Task Visitors / Subcontractors: NA

Matters of Safety: Frost moving water, wildlife, Sun exposure, dehydration

Problems / Concerns and Corrective Actions Taken: NA

Time	Activities														
0700	At TT office; gather equipment														
0740	Move to LVW0.55														
0800	Collect sample at LVW0.55 + FD + FB														
0845	Collect samples LVW3.5-1 thru 6														
0930	Collect samples LVW4.2-1 thru 4; Sampled LV4.2-4 at 36.09506°N, -114.954760E														
1015	Collect samples LVW4.75-1 thru 5														
1100	Collect samples LVW5.3-1 thru 6; Vegetation encroachment at LVW5.3-2 -Checked LVW 5.3-2 at 36.09001°N, -114.97327°E														
1145	C-R channel dry <del>C-E</del> C1-E channel dry, and C1-W channel flowing														
	<table border="1"> <thead> <tr> <th></th> <th>Width (mm)</th> <th>Depth (mm)</th> <th>t<sub>1</sub> (s)</th> <th>V<sub>1</sub> (L)</th> <th>t<sub>2</sub> (s)</th> <th>V<sub>2</sub> (L)</th> </tr> </thead> <tbody> <tr> <td>C1-W <del>C-E</del></td> <td>148</td> <td>26</td> <td>1.96</td> <td>1.0</td> <td>2.81</td> <td>1.5</td> </tr> </tbody> </table>		Width (mm)	Depth (mm)	t <sub>1</sub> (s)	V <sub>1</sub> (L)	t <sub>2</sub> (s)	V <sub>2</sub> (L)	C1-W <del>C-E</del>	148	26	1.96	1.0	2.81	1.5
	Width (mm)	Depth (mm)	t <sub>1</sub> (s)	V <sub>1</sub> (L)	t <sub>2</sub> (s)	V <sub>2</sub> (L)									
C1-W <del>C-E</del>	148	26	1.96	1.0	2.81	1.5									
1215	Collect sample LVW6.05 + FD + FB														
1230	Collect samples LVW6.6-1 thru 3														
1300	Collect sample LVW7.2 + FD														
1400	Collect sample LVW8.85														
1430	Move to TT office; Place samples in cooler; unload equipment; Scan in forms														
1600	Done for day														

- |  |   |  |
|--|---|--|
| <input type="checkbox"/> LVW8.85: 36.107231, -115.019994             | <input checked="" type="checkbox"/> LVW5.3-6: 36.090660, -114.973903  | <input checked="" type="checkbox"/> LVW4.2-2: 36.094817, -114.954612 |
| <input type="checkbox"/> LVW7.2: 36.090604, -115.000302              | <input type="checkbox"/> C1-E: 36.086147, -114.972022 No flow         | <input checked="" type="checkbox"/> LVW4.2-3: 36.094978, -114.954716 |
| <input checked="" type="checkbox"/> LVW6.6-1: 36.089005, -114.992888 | <input checked="" type="checkbox"/> C1-W: 36.086147, -114.972022      | <input checked="" type="checkbox"/> LVW4.2-4: 36.095108, -114.954806 |
| <input checked="" type="checkbox"/> LVW6.6-2: 36.089155, -114.992828 | <input type="checkbox"/> C12: 36.086125, -114.970255 No Flow          | <input checked="" type="checkbox"/> LVW3.5-1: 36.100422, -114.943298 |
| <input checked="" type="checkbox"/> LVW6.6-3: 36.089265, -114.992858 | <input checked="" type="checkbox"/> LVW4.75-1: 36.092979, -114.961810 | <input checked="" type="checkbox"/> LVW3.5-2: 36.100459, -114.943329 |
| <input checked="" type="checkbox"/> LVW6.05: 36.087849, -114.985682  | <input checked="" type="checkbox"/> LVW4.75-2: 36.093130, -114.961928 | <input checked="" type="checkbox"/> LVW3.5-3: 36.100548, -114.943390 |
| <input checked="" type="checkbox"/> LVW5.3-1: 36.089867, -114.973112 | <input checked="" type="checkbox"/> LVW4.75-3: 36.093277, -114.962051 | <input checked="" type="checkbox"/> LVW3.5-4: 36.100585, -114.943405 |
| <input checked="" type="checkbox"/> LVW5.3-2: 36.090072, -114.973322 | <input checked="" type="checkbox"/> LVW4.75-4: 36.093431, -114.962174 | <input checked="" type="checkbox"/> LVW3.5-5: 36.100606, -114.943451 |
| <input checked="" type="checkbox"/> LVW5.3-3: 36.090218, -114.973467 | <input checked="" type="checkbox"/> LVW4.75-5: 36.093580, -114.962301 | <input checked="" type="checkbox"/> LVW3.5-6: 36.100645, -114.943493 |
| <input checked="" type="checkbox"/> LVW5.3-4: 36.090367, -114.973612 | <input checked="" type="checkbox"/> LVW4.2-1: 36.094695, -114.954570  | <input checked="" type="checkbox"/> LVW0.55: 36.122158, -114.904631  |
| <input checked="" type="checkbox"/> LVW5.3-5: 36.090513, -114.973758 |   |  |

Prepared by: Dylan Begley      Signature: *[Signature]*      Date: 12/16/23

# **Attachment C Calibration Logs**

### YSI ProDSS RENTAL CALIBRATION CERTIFICATE

SERVICE TECHNICIAN: FM

DATE: 12/1/23

RENTAL CUSTOMER:

#### INSTRUMENT INFORMATION

RENTAL I.D. NUMBER: YSI-ProDSS: 06

SERIAL NUMBER: 16F102574

#### CALIBRATION INFORMATION

PARAMETER:	STANDARD:	PASS ( )	LOT #
1. CONDUCTIVITY	1,000 $\mu$ Mhos	/	<u>088047</u>
2. pH ZERO	pH 7	/	<u>086097</u>
pH SLOPE	pH 4	/	<u>086096</u>
pH SLOPE	pH 10	/	<u>082794</u>
3. DISSOLVED OXYGEN	Air Calibration	/	N/A
DISSOLVED OXYGEN ZERO TEST	Barometric pressure = 760mmHg (Sodium Sulfite)	/	<del>N/A</del>
4. TURBIDITY ZERO	0.0 NTU's	/	N/A
TURBIDITY SPAN	100 NTU's	/	<u>12/1/23</u>
5. REDOX (ORP)	231mV (YSI Zobell solution)	/	<u>082794</u>



Semi-Annual Groundwater Monitoring and  
GWETS Performance Memorandum  
Nevada Environmental Response Trust  
Site Henderson, Nevada

**APPENDIX E**  
**DATA VALIDATION SUMMARY REPORT**  
**(DVSR) (AVAILABLE ELECTRONICALLY)**

Semi-Annual Groundwater Monitoring and  
GWETS Performance Memorandum  
Nevada Environmental Response Trust  
Site Henderson, Nevada

**APPENDIX F**  
**ELECTRONIC DATA DELIVERABLE (EDD)**  
**(AVAILABLE ELECTRONICALLY)**

Semi-Annual Groundwater Monitoring and  
GWETS Performance Memorandum  
Nevada Environmental Response Trust  
Site Henderson, Nevada

**APPENDIX G**  
**ENVIRONMENTAL FOOTPRINT ANALYSIS**  
**(AVAILABLE ELECTRONICALLY)**



**TABLE G-1: ENVIRONMENTAL FOOTPRINT INVENTORY DATA SOURCES,  
JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site  
Henderson, Nevada**

Parameter	Data Sources
Personnel Transportation	Personnel transportation estimates are compiled by the Trust, Ramboll, Tetra Tech, and Envirogen for tasks associated with the Groundwater Monitoring Program and the Groundwater Extraction and Treatment System (GWETS).
	Flight distances are estimated using the approximate distance from the starting location city/airport to Las Vegas airport. Driving distances are estimated using the approximate driving distance reported by Google Maps.
	Transportation associated with one-time events (e.g. system construction) is not included.
On-site Equipment Usage	Envirogen's gasoline usage for on-site vehicles is compiled from available vehicle analysis reports.
	Tetra Tech's and Ramboll's gasoline usage for on-site vehicles is estimated using approximate mileage amounts provided by field personnel and an assumed fuel efficiency determined based on type of vehicle used and type of vehicle usage.
	Estimates for fuel usage for other on-site equipment are provided by Envirogen and Ramboll.
	Equipment usage associated with one-time events (e.g. initial system construction) is not included. Equipment usage associated with well replacements is considered for maintenance activities, and therefore, included.
Electricity Usage	Electricity usage is compiled from invoices received from the Colorado River Commission of Nevada and NV Energy.
	Fuel mix information for grid electricity is available from the Colorado River Commission of Nevada and NV Energy websites.
Materials Usage and Transportation	Materials usage information is provided by Envirogen personnel based on electronic outputs from their process control systems.
	Information regarding specifications and formulations is obtained from Safety Data Sheets maintained at the Site for the GWETS. Ramboll obtained Safety Data Sheets for well replacement materials.
	Information regarding mode of transportation to the Site and location of manufacture is provided by Envirogen. Fuel types are assumed based on mode of transportation. Distances traveled are estimated based on the approximate distance between the manufacturing location and the Site.
	Materials usage and transportation associated with one-time events (e.g. system construction) is not included. Well replacements are considered maintenance activities (not one-time events), and therefore, included.
	Materials used for well replacements is calculated using the Well Material Calculator in the Spreadsheets for Environmental Footprint Analysis (SEFA) workbooks.
Waste Disposal and Transportation	Treatment waste disposal and transportation information is compiled from invoices provided by Envirogen containing information regarding waste hauled off-site. Invoice line items are counted to determine the number of pickup trips. Distances traveled are estimated based on the distance between the disposal location and the Site.
	The quantity of waste from well replacements is estimated using the Well Material Calculator in the SEFA workbooks.

**TABLE G-1: ENVIRONMENTAL FOOTPRINT INVENTORY DATA SOURCES,  
 JULY - DECEMBER 2023  
 Nevada Environmental Response Trust Site  
 Henderson, Nevada**

Parameter	Data Sources
Water Usage	Surface water usage is determined based on totalizer readings from the Site's main water supply line and subtracting totalizer readings associated with usage by Tronox (not part of Site operations). For periods when readings from the Site's main water supply line were not available, surface water usage was estimated by summing readings from individual point discharge locations.
	Extracted groundwater is calculated from the GWETS field sheet maintained by Tetra Tech and Envirogen.
	GW-11 evaporation is estimated based on GW-11 stage area estimates provided by Envirogen and historic pan evaporation data (Shevenell 1996).
	Water used for well replacements is calculated using the Well Material Calculator in the SEFA workbooks. Information regarding trucked water used for sanitary purposes is estimated by Envirogen.
Off-site Laboratory Analyses	The total number of analyses conducted is compiled based on information available from the Site's Analytical Database maintained by Ramboll and only includes sampling related to GWETS operations or the groundwater monitoring program. Quality Assurance (QA) and Quality Control (QC) samples, including equipment blanks, field blanks, trip blanks, and field duplicates, are also included. Pricing information for each analytical method is estimated based on unit prices provided by TestAmerica.

**TABLE G-2: PERSONNEL TRANSPORTATION, JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site  
Henderson, Nevada**

Personnel Location/ Activities	Number of Personnel	Estimated Roundtrips to Site per Person	Roundtrip Distance to Site (miles)	Mode of Transportation	Transport Fuel Type	Notes
<b>GWETS Activities</b>						
GWETS Operations and Maintenance	3	84	30	Car	Gasoline	[A]
	1	84	30	Light-Duty Truck	Gasoline	
	1	120	10	Car	Gasoline	
	1	120	10	Light-Duty Truck	Gasoline	
	5	150	30	Car	Gasoline	
	1	150	30	Light-Duty Truck	Gasoline	
Extraction Well and Conveyance Maintenance	1	123	30	Light-Duty Truck	Gasoline	
	1	123	30	Heavy-Duty Truck	Gasoline	
Groundwater Monitoring	1	123	30	Light-Duty Truck	Gasoline	
General Site Management	1	120	30	Light-Duty Truck	Gasoline	
	1	120	30	Heavy-Duty Truck	Gasoline	
IX Monitoring and Management	1	123	30	Heavy-Duty Truck	Gasoline	
Director of Remediation	1	0	10	Car	Gasoline	[B]
Chicago	1	0	3,020	Flight	NA	[B]
Las Vegas Area	1	125	20	Car	Gasoline	[C]
	1	5				
<b>GWM Activities</b>						
Columbus	1	2	3,540	Flight	NA	[D]
Denver	1	2	1,260	Flight	NA	[D]
Henderson	1	22	20	Car	Gasoline	[C]
	1	25	20	Car	Gasoline	[C]
Irvine	1	1	470	Flight	NA	[C]
Los Angeles	1	1	470	Flight	NA	[D]
Philadelphia	1	0.5	4,360	Flight	NA	[D]
Phoenix	1	2	590	Car	Gasoline	[C]
	1	1	510	Flight	NA	[D]
Salt Lake City	1	1	740	Flight	NA	[C]
Redlands	1	2	470	Light-Duty Truck	Diesel	[D]
Tampa	1	0.5	4,280	Flight	NA	[D]
Tucson	1	1	820	Car	Gasoline	[C]

**Notes**

A) Travel estimates were provided by Envirogen.

B) Travel estimates were provided by the Nevada Environmental Response Trust.

C) Travel estimates were provided by Tetra Tech.

D) Travel estimates were provided by Ramboll.

Average roundtrip distances are rounded to the nearest 10 miles.

For each flight, a 30-mile car trip is assumed to account for roundtrip transportation from the airport to the Site.

NA = Not Applicable



**TABLE G-3: ON-SITE EQUIPMENT USAGE, JULY - DECEMBER 2023**

Nevada Environmental Response Trust Site

Henderson, Nevada

On-site Equipment	Fuel Quantity (gallons)	Fuel Type	Notes
<b>GWETS Activities</b>			
Combined Truck Use	1,190	Gasoline	[A]
Back-up Air Compressor	10	Diesel	[B]
Pressure Washer	24	Gasoline	[C]
Temporary Generator Use	27,590	Diesel	[D]
<b>GWM Activities</b>			
Combined Truck Use, Gasoline	180	Gasoline	[A]
Combined Truck Use, Diesel	40	Diesel	[A]
Drill Rig	See Notes	Diesel	[A], [E]

**Notes**

A) Gasoline, diesel, and drill rig usage was estimated based on vehicle usage information provided by Envirogen, Tetra Tech, and Ramboll personnel. Estimates shown are rounded to the nearest 10 gallons.

B) Personnel with Envirogen indicated approximately 20 gallons of diesel are used per year for operation of the back up air compressor at the Chromium Treatment Subsystem (formerly the "groundwater treatment plant").

C) Personnel with Envirogen indicated approximately 4 gallons of gasoline are used per month for operation of the pressure washer.

D) Starting in July 2023, generator power was used to operate Lift Station #1 due to development of the Cadence master planned community. The fuel quantity is determined via fuel invoices.

E) A standard sonic drill rig operated for an average of 8 hours per day for 11 days during well replacement activities. The drill rig was locally deployed four times with 10-mile roundtrips.

**TABLE G-4: ELECTRICITY USAGE, JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site**

**Henderson, Nevada**

<b>Grid Electricity</b>	<b>Kilowatt-hours</b>	<b>Energy Source</b>	<b>Notes</b>
Treatment Plant	2,261,306	Colorado River Commission of NV	[A]
Extraction Wells and Lift Stations	360,120	NV Energy	[B],[C]
<b>Total Electricity Used</b>	<b>2,621,426</b>	-	-

**Notes**

A) The Colorado River Commission of Nevada is responsible for acquiring and managing Nevada's water and hydropower resources from the Colorado River. Electricity provided by the Colorado River Commission of Nevada to the NERT Site is generated from hydropower resources.

B) NV Energy is listed as the electricity provider on invoices for the off-site extraction wells and pump stations. Information regarding the energy sources of electricity provided is available from the following document:

[https://www.nvenergy.com/publish/content/dam/nvenergy/bill\\_inserts/2024/1\\_jan/power-content-insert-south-2024\\_3\\_31.pdf](https://www.nvenergy.com/publish/content/dam/nvenergy/bill_inserts/2024/1_jan/power-content-insert-south-2024_3_31.pdf)

C) Starting in July 2023, generator power was used to operate Lift Station #1 due to development of the Cadence master planned community. The electricity used from July - December 2023 to operate the extraction wells and lift stations has therefore decreased by 47% from July - December 2022.

**TABLE G-5: MATERIALS USAGE AND TRANSPORTATION, JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site**

**Henderson, Nevada**

Material Type	Quantity	Units	Location of Manufacture	One-way Distance to Site (miles)	Mode of Transportation	Specific Gravity	Density (lbs/gal)
<b>GWETS Activities</b>							
Ferrous sulfate (FeSO <sub>4</sub> )	3,800	gal	South Gate, CA	250	Truck	1.203	10.02
PolymerDewater BF CP 9869	400	gal	Riceboro, GA	2,200	Truck	0.12	1.00
DAF polymer BF CP 2661	3,100	gal	Greensboro, South Carolina	2,250	Truck	1.03	8.60
Polymer Superfloc 4818 RS GWTP	400	lbs	Madison, Alabama	1,750	Truck	1.072	8.95
Ethanol (190 proof)	31,300	gal	Peoria, IL	1,950	Train	0.817	-
				250	Truck		
Phosphoric acid (H <sub>3</sub> PO <sub>4</sub> )	1,900	gal	Pocatello, ID	600	Truck	1.20-1.26	10.0-10.5
pH adjustment (NaOH)	6,600	gal	Plaquemine, LA	1,650	Train/Truck	1.33	11.1
Micronutrients (VWNA micronutrient)	4,300	gal	South Gate, CA	250	Truck	1.1075	9.24
Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	7,000	gal	Longview, WA	1,050	Truck	1.1327	9.44
			Woodstock, TN	1,600			
Ferric chloride (FeCl <sub>3</sub> )	2,800	gal	Vernon, CA	300	Truck	-	11.8-12.0
Ion exchange (IX) resin	1,100	cubic feet	Romania	6,750	Boat	1.0-1.15	-
				2,550	Truck		
Acetic Acid 56%	660	gal	Santa Fe Springs, CA	250	Truck	1.049	8.74
<b>GWM Activities</b>							
PVC Casing	1,100	lbs	La Habre, CA	1,200	Truck	-	10.85
Cement (Dry)	7,900	lbs	Hanford, CA	450	Truck	3.15	2.60
Sand Pack (Gravel/Sand)	3,200	lbs	Monterey, CA	2,289	Truck	2.65	13.35
Grout	3,200	lbs	Hanford, CA	450	Truck	-	-
Steel (protective covers)	78	lbs	Wilson, NC	2,400	Truck	-	-

**Notes**

gal = gallons

lbs = pounds

PVC = polyvinyl chloride

A) Materials usage information is provided by Envirogen personnel based on electronic outputs from their process control systems and inventory ordering information. Envirogen reported all materials are refined and none of the materials are from recycled

B) Information regarding location of manufacture and mode of transportation is provided by Envirogen personnel. Approximate one-way distance to the Site is estimated using Google Maps rounded to the nearest 50 miles.

C) Specific gravity and density information for each material is obtained from Safety Data Sheets maintained at the Site.

D) Materials for replacement wells are estimated using information provided by Ramboll and the Well Material Calculator included in EPA Spreadsheets for Environmental Footprint Analysis.



**TABLE G-6: WASTE DISPOSAL AND TRANSPORTATION, JULY - DECEMBER 2023**  
**Nevada Environmental Response Trust Site**  
**Henderson, Nevada**

Waste Generated	Notes	Quantity	Units	Number of Trips	Treatment/ Disposal Site	One-way Distance to Site (miles)	Mode of Transportation
Fluidized Bed Reactor (FBR) Sludge	A	207	tons	35	Apex Industrial Solid Landfill	30	Truck
Chromium Treatment Subsystem (formerly the "Groundwater Treatment Plant ") Sludge		9	tons	1			
Ion Exchange (IX) Resin		22	tons	5			
Soil Cuttings	B	10	tons	2			

**Notes**

A) Information regarding FBR sludge, Chromium Treatment Subsystem sludge, IX resin, and miscellaneous wastes hauled off-site was compiled from invoices provided by Envirogen personnel.

B) Soil cuttings waste is estimated using information provided by Ramboll and the Well Material Calculator included in EPA Spreadsheets for Environmental Footprint Analysis.

**TABLE G-7: WATER USAGE, JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site**

**Henderson, Nevada**

Water Source	Quantity	Unit	Use/Fate
<b>GWETS Activities</b>			
Extracted Groundwater	323	MGal	Treat and discharge to Las Vegas Wash
Lake Mead	1.4	MGal	[A],[B]
GW-11 Evaporation	19.9	MGal	Evaporation [C]
Public water	9180	gal	Sanitary water [D]
<b>GWM Activities</b>			
Water to mix cement	500	gal	[E]
Water for grout	200	gal	[E]

**Notes**

MGal = million gallons

gal = gallons

A) Lake Mead water is used for Fluidized Bed Reactor (FBR) polymer additions, Chromium Treatment Subsystem polymer additions, washing down equipment in the treatment plant, sanitary water, and seal water for FBR pumps. After use, Lake Mead water is discharged to GW-11 and then eventually treated and discharged to Las Vegas Wash, except for sanitary water which is discharged to an on-site septic system.

B) To reduce dependency on Lake Mead water supply, an Effluent Filtration System (EFS) has been implemented as part of the GWETS starting in June 2023. The EFS uses nano-filtration to treat effluent water for re-use in the treatment system (i.e., backwashing). Lake Mead water was phased out and is no longer used for water treatment operations as of October 2023.

C) GW-11 evaporation was estimated using information contained within the GW-11 Pond Volume Model maintained by Envirogen. The GW-11 Pond Volume Model includes measured pond water levels (collected approximately twice per month) and corresponding calculated pond volume and stage area estimates. Stage area estimates and historical pan evaporation data (Shevenell 1996) are used to calculate estimated evaporation during the reporting period. Details of these calculations are included in the SEFA input workbook.

D) Approximately 1,530 gallons of water is trucked onto the site for sanitary use every month starting in July 2023. This entails an approximately 30-mile roundtrip delivery four times per month.

E) The amount of public water used to mix cement and grout for replacement wells is estimated using information provided by Ramboll and the Well Material Calculator included in EPA Spreadsheets for Environmental Footprint Analysis.

*Shevenell, Lisa, 1996. Nevada Bureau of Mines and Geology, Report 48: Statewide Potential Evapotranspiration Maps for Nevada.*

**TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site**

**Henderson, Nevada**

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
<b>Groundwater Extraction and Treatment System (GWETS) Analyses</b>			
<b>East Well Feed and West Well Feed - Weekly</b>			
Chromium	EPA 200.7	\$25	52
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	52
Perchlorate	EPA 314.0	\$25	52
<b>FBR Plant Influent - Weekly</b>			
Chromium	EPA 200.7	\$25	26
Iron		\$8	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Nitrate as N	EPA 300_ORGFMS	\$8	26
Nitrite as N		\$8	26
Total Inorganic Nitrogen	NTOTAL	\$5	26
Perchlorate	EPA 314.0	\$25	26
Nitrogen, Kjeldahl	EPA 351.2	\$25	26
Ammonia as N	SM400-NH3-D	\$20	26
<b>FBR Plant Effluent - Weekly</b>			
Chromium	EPA 200.7	\$25	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Nitrate as N	EPA 300_ORGFMS	\$8	26
Perchlorate	EPA 314.0	\$25	26
<b>FBR Effluent and FBR Influent - Monthly</b>			
Chlorate	EPA 300.1	\$12	12
<b>FBR Influent - Quarterly</b>			
Manganese	EPA 200.7	\$25	2
Total Dissolved Solids	SM 2540C	\$10	2
<b>GW-11 Composite</b>			
Calcium	EPA 200.7	\$25	2
Iron		\$8	2
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	2
Chloride	EPA 300_ORGFM_28D	\$8	2
Sulfate		\$8	2
Chlorate	EPA 300.1	\$12	2
Total Suspended Solids	SM 2540D	\$10	2
pH	SM 4500H+	\$8	2
pH (Field)	FIELD SAMPLING (SM 4500H+)	\$0	8
<b>GW-11 Static Mixer</b>			
Chromium	EPA 200.7	\$25	6
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	6
Perchlorate	EPA 314.0	\$25	6



**TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2023**

Nevada Environmental Response Trust Site

Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
<b>Chromium Treatment Subsystem (formerly "Groundwater Treatment Plant") Discharge</b>			
Chlorate	EPA 300.1	\$12	26
Chromium	EPA 200.7	\$25	26
Chromium, Hexavalent Dissolved <sup>1</sup>	EPA 218.6	\$50	52
Nitrate as N	EPA 300_ORGFMS	\$8	26
Perchlorate <sup>1</sup>	EPA 314.0	\$25	52
<b>IX Effluent - Composite and IX Influent - Composite</b>			
Perchlorate	EPA 314.0	\$25	52
<b>IX Influent</b>			
Chromium	EPA 200.7	\$25	6
Molybdenum		\$8	6
Selenium		\$8	6
Vanadium		\$8	6
Uranium	EPA 200.8	\$8	6
Total Phosphorus as P	EPA 365.3	\$22	6
Bicarbonate as HCO <sub>3</sub>	SM 2320	\$11	6
Carbonate as CO <sub>3</sub>			
Total Alkalinity as CaCO <sub>3</sub>			
Total Dissolved Solids	SM 2540C	\$10	2

**TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2023**

Nevada Environmental Response Trust Site

Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
<b>Outfall 001 Effluent - Quarterly</b>			
Antimony	EPA 200.7	\$100	2
Arsenic			
Beryllium			
Boron			
Cadmium			
Chromium			
Copper			
Lead			
Nickel			
Selenium			
Silver			
Thallium			
Zinc			
Mercury	EPA 245.1	\$22	2
Chloride	EPA 300_ORGFM_28D	\$8	2
Asbestos	EPA 600/R-94-134	\$306	2
Pesticides & PCBs	EPA 608	\$120	2
Volatile Organics	EPA 624	\$45	4
Base Neutral Acid Extractables	EPA 625	\$125	2
2,3,7,8-Tetrachlorodibenzo-p-dioxin	EPA 1613B	\$325	2
Oil & Grease	EPA 1664	\$35	2
Total Dissolved Solids	SM 2540C	\$10	2
Cyanide, Total	SM 4500-CN-E	\$33	2
<b>Outfall 001 Effluent - Monthly</b>			
Sulfate	EPA 300_ORGFM_28D	\$8	6
Sulfide	SM 4500-S2-D	\$23	6

**TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2023**

**Nevada Environmental Response Trust Site**

**Henderson, Nevada**

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
<b>Outfall 001 Effluent - Weekly</b>			
Chromium	EPA 200.7	\$25	26
Iron	EPA 200.7	\$8	26
Manganese	EPA 200.7	\$8	26
Chromium, Hexavalent Dissolved	EPA 218.6	\$50	26
Nitrate as N	EPA 300_ORGFMS	\$8	26
Nitrite as N		\$8	26
Total Inorganic Nitrogen	NTOTAL	\$5	26
Perchlorate	EPA 314.0	\$25	26
Ammonia as N	EPA 350.1	\$20	26
Total Phosphorus as P	EPA 365.3	\$22	26
Apparent Color	SM 2120	\$10	26
pH		\$8	26
Total Suspended Solids	SM 2540D	\$10	26
Dissolved Oxygen	SM 4500 OG	\$10	26
pH	SM 4500H+	\$8	26
pH (Field)	FIELD SAMPLING (SM 4500H+)	\$0	26
Carbonaceous Biochemical Oxygen Demand	SM 5210B	\$30	26
<b>Las Vegas Wash 5.5</b>			
Iron	EPA 200.7	\$25	2
Manganese		\$8	2
Total Dissolved Solids	SM 2540C	\$10	2
<b>GW-11 Composite</b>			
Arsenic	EPA 200.7	\$25	2
Boron		\$8	2
Chromium		\$8	2
Manganese		\$8	2
Selenium		\$8	2
Nitrate as N	EPA 300_ORGFMS	\$8	2
Nitrite as N		\$8	2
Total Inorganic Nitrogen	NTOTAL	\$5	2
Perchlorate	EPA 314.0	\$25	2
Ammonia as N	EPA 350.1	\$20	2
Total Phosphorus as P	EPA 365.3	\$22	2
Total Dissolved Solids	SM 2540C	\$10	2



**TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2023**

Nevada Environmental Response Trust Site

Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses	
<b>FBR Bio-Solids (Solid)</b>				
Arsenic	EPA 6010	\$25	--	
Cadmium		\$8	--	
Chromium		\$8	--	
Copper		\$8	--	
Lead		\$8	--	
Molybdenum		\$8	--	
Nickel		\$8	--	
Selenium		\$8	--	
Zinc		\$8	--	
Mercury	EPA 7471	\$22	--	
Percent Moisture	--	\$0	--	
<b>Estimated Total Cost of GWETS Analyses</b>		<b>\$29,886</b>		
<b>Performance Monitoring Analyses</b>				
<b>Performance Monitoring Program Wells</b>				
Alkalinity	SM 2320	\$11	0	
Calcium	EPA 200.7	\$8	0	
		\$25	0	
Chromium		\$25	524	
Iron		\$8	0	
Magnesium		\$8	0	
Potassium		\$8	0	
Sodium		\$8	0	
Chloride		EPA 300.0	\$8	0
Chromium, Hexavalent Dissolved		EPA 218.6	\$50	406
Nitrate as N	EPA 300_ORGFMS	\$8	0	
Chlorate	EPA 300.1	\$12	508	
Perchlorate	EPA 314.0	\$25	524	
Sulfate	EPA 300_ORGFM_28D	\$8	0	
Total Dissolved Solids	SM 2540C	\$10	24	
pH (Field)	FIELD SAMPLING (SM 4500H+)	\$0	384	
Volatile Organic Compounds (VOCs)	SW 8260B	\$45	--	
Volatile Organic Compounds (VOCs)	SW 8260B SIM	\$80	--	

**TABLE G-8: OFF-SITE LABORATORY ANALYSES, JULY - DECEMBER 2023**

Nevada Environmental Response Trust Site

Henderson, Nevada

Analyte	Method	Estimated Analytical Unit Price	Number of Analyses
<b>NPDES Requirements for Performance Monitoring Well M-10</b>			
Arsenic	EPA 200.7	\$8	2
Boron		\$8	2
Iron		\$8	2
Manganese		\$8	2
Selenium	EPA 200.7	\$8	2
Chloride	EPA 300_ORGFM_28D	\$8	2
Nitrite as N	EPA 300_ORGFMS	\$8	2
Ammonia as N	EPA 350.1	\$20	2
Total Inorganic Nitrogen	NTOTAL	\$5	2
<b>RCRA Requirements for Performance Monitoring Wells H-28A, M-5A, M-6A, and M-7B</b>			
Boron	EPA 200.7	\$8	4
Iron		\$8	4
Manganese		\$8	4
Sodium		\$8	4
Chloride	EPA 300_ORGFM_28D	\$8	4
Sulfate		\$8	4
Phenols	EPA 420	\$35	4
Specific Conductance	SM 2510	\$10	4
Total Organic Carbon	SM 5310C	\$30	4
Total Organic Halides	SW 9020B	\$75	4
<b>Performance Monitoring Program Surface Water Sampling</b>			
Chlorate	EPA 300.1	\$12	222
Perchlorate	EPA 314.0	\$25	222
Total Dissolved Solids	SM 2540C	\$10	222
<b>Performance Monitoring Program Northshore Road (LVW 0.55)</b>			
Perchlorate	EPA 314.0	\$25	12
<b>Estimated Total Cost of Performance Monitoring Analyses</b>		<b>\$64,524</b>	

**Notes**

The current performance period reflects the analyses performed under the Sampling and Analysis Plan, Revision 3 (approved by NDEP on January 4, 2023).

A) Analytical costs were estimated based on TestAmerica Laboratories Inc. 2017 Unit Price List for NERT Projects included in the Master Project Subcontract Agreement between Ramboll and TestAmerica and correspondence with TestAmerica. Laboratory method names, matrix designations, and total number of analyses conducted were compiled from laboratory EDDs maintained in the NERT project database.

<sup>1</sup> Starting from July 2023, the CTS treated extracted groundwater from the Unit 4 Source Area. To account for the additional treatment, Ramboll included the additional weekly sampling of perchlorate and hexavalent chromium for this timeframe from the Unit 4 Area into the CTS annual totals.

Semi-Annual Groundwater Monitoring and GWETS Performance Memorandum  
July – December 2023 Performance Period  
Nevada Environmental Response Trust Site  
Henderson, Nevada

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