

**Castle Oak Golf Course  
Groundwater Monitoring Report  
Third Quarter 2023  
R5-1993-0240-002**

Prepared for

**City of Lone**

October 13, 2023

Prepared by



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**Castle Oak Golf Course  
Groundwater Monitoring Report  
Third Quarter 2023  
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October 13, 2023

City of Ione  
Amy Gedney, Acting City Manager  
1 East Main Street  
Ione, CA 95640

RE: Castle Oak Golf Course  
Third Quarter 2023 Groundwater Monitoring Report  
R5-1993-0240-002

Dear Ms. Gedney:

This report summarizes the 3rd Quarter 2023 groundwater monitoring and analytical sampling event associated with Monitoring and Reporting Program (MRP) R5-1993-0240-002.

#### AUTHORIZATION

The services provided by Dellavalle Laboratory, Inc. (DLI), Provost and Pritchard Consulting Group, and Del Tech Geotechnical Support Services (Del-Tech) were authorized by the City of Ione and Dellavalle Project Manager, Lisa Rubin.

#### CASTLE OAK GOLF COURSE GROUNDWATER MONITORING NETWORK

As of 14 August 2023, the Castle Oak Golf Course groundwater monitoring network consists of three (3) groundwater monitoring wells and three (3) piezometers (**Table 1-Network Site Descriptions**). Unable to access piezometer CO P-4 due to very tall weeds and grass.

**Table 1.** Network Site Descriptions

Monitoring Wells	Monument	Piezometers	Monument
CO MW-1	Flush	CO P-1	Post
CO MW-2	Post	CO P-2	Post
CO MW-3	Post	CO P-4	Post

October 13, 2023

As required by California Business and Professions Code Section 7835, groundwater monitoring site locations, potentiometric measurements, groundwater elevations, and analytical results summary discussions have been prepared by a Licensed California Geologist and are presented in **Attachment 1 - Groundwater Elevation and Analytical Results Discussion**. Groundwater elevations and depth to water measurements (DTW) with historical graph trends are presented in **Attachment 2 - Groundwater Monitoring Network Measurements and Graphs**.

#### GROUNDWATER MONITORING & SAMPLING

Prior to purging and sampling, Del-Tech measured DTW in all monitoring wells and piezometers. DTW was measured from the north side and top edge of well casing. DTW measurements (ft) are subtracted from the depth of well (ft) to determine standing water column (SWC) measurements in feet. The SWC is multiplied by the gallons per foot of depth (0.1632 for 2-inch diameter well casing) to determine calculated purge volume. All well casings are 2-inch polyvinyl chloride.

Dedicated Waterra tubing and check-ball systems are installed at each well, and all monitoring wells were purged and sampled with an inertial pump. Each monitoring well was purged to remove standing water within the well casing that may not be representative of formation water. Purge water samples were monitored in the field for temperature, pH, electrical conductivity (EC), oxidation-reduction potential (ORP), turbidity, and dissolved oxygen (DO). All purged water was released to the ground.

Instrument calibration was carried out daily in the field prior to measuring purge parameters. Field records for water sampling events are included in **Attachment 3 - Field Records**.

Groundwater samples were collected for laboratory analysis after a minimum of three well casing volumes of water had been removed and the field parameters for purge water had stabilized. During sampling, DTW measurements were taken and recorded for draw-down after each purge. The following target criteria for three consecutive measurements were used to define stabilization:

- ◆ +/- 0.2 for pH
- ◆ +/- 10% for EC
- ◆ +/- 2.0 degrees Celsius
- ◆ +/- 20mv for ORP

Samples were collected in the appropriate laboratory prepared containers, labeled, and placed directly into an ice cooled chest and delivered under chain-of-custody protocols by the project manager to DLI's analytical laboratory. Samples for metals analysis were filtered prior to preservation and digestion using a 0.45-micron filter.

October 13, 2023

As requested, groundwater samples were analyzed at DLI for pH, electrical conductivity (EC), total dissolved solids (TDS), Nitrate-N ( $\text{NO}_3\text{-N}$ ), ammonia as nitrogen ( $\text{NH}_4\text{-N}$ ), dissolved iron (Fe), and dissolved manganese (Mn). Samples for total coliform organisms (TCO), dissolved arsenic (As), and Volatile Organic Carbons (VOCs), were contracted out to BSK Associates (BSK).

DLI's analytical laboratory is certified by the Environmental Laboratory Accreditation Program (Certificate No. 1595) for the analyses provided herein. BSK is certified by the Environmental Laboratory Accreditation Program (Certificate No. 1180) for the analyses provided herein.

Historical water quality trends and graphs are presented in **Attachment 4 - Historical Water Quality Data and Graphs**. Copies of the laboratory analytical reports for this quarter are included in **Attachment 5 - Reports of Water Analysis (Monitoring Wells)**.

#### LIMITATIONS STATEMENT

This report has been reviewed by a Professional Geologist in the State of California. DLI's professional services were performed consistent with generally accepted environmental principles and practices in California at the time the services were performed. Data in this report, prior to 28 November 2022, was based on data collected and provided by others. No guarantee or warranty, expressed or implied, is made.

This Report was prepared for the sole use of Dischargers regulated under R5-1993-0240-002, Provost & Pritchard Consulting Group, and involved regulatory agencies. It may not be used or relied upon by any other person(s) without the express written consent and authorization of the City of Lone and DLI. If any errors are found in the information used for this report, the inferences and conclusions shall not be considered valid unless the changes or errors are reviewed by the supervising Professional Geologist and re-approved in writing. Any questions regarding the content of this document should be directed to the DLI Project Manager or the City Manager for Lone.

If you have any questions concerning this report, please do not hesitate to call me at (408) 667-7661 or e-mail inquiries to [l.rubin@dellavallelab.com](mailto:l.rubin@dellavallelab.com).

Thank you,



Lisa A. Rubin, CCA

Attachments

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**Attachment 1**  
**Groundwater Elevation and Analytical**  
**Results Discussion**



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October 30, 2023

Lisa Rubin, CCA  
Dellavalle Laboratory, Inc.  
1910 W. McKinley Avenue #110  
Fresno, CA 93728

RE: Castle Oaks Golf Course, Groundwater Monitoring Report, Third Quarter 2023, Groundwater Elevation and Analytical Results Discussion

Dear Ms. Rubin:

This document was prepared by Provost & Pritchard Consulting Group (Provost & Pritchard) for Dellavalle Laboratory, Inc. (DLI) for the Castle Oaks Golf Course in lone, California, which is subject to Monitoring and Reporting Program (MRP) R5-93-0240-002. The following discussion is based on the information presented in the Castle Oak Golf Course, Groundwater Monitoring Report, Third Quarter 2023, R5-1993-0240 (report) prepared by DLI.

## GROUNDWATER ELEVATION

Well locations and depth to water measurements for the third quarter 2023 groundwater sampling event at the Castle Oaks site are provided in Attachment 2 of the DLI report. Top of casing elevations were obtained from the previous consultant's work product, provided by the City of lone. Groundwater elevations were calculated and are shown on the enclosed Groundwater Elevation Map, prepared by a Provost & Pritchard Professional Geologist. The calculated groundwater gradient across the Castle Oaks site based on the contours for the sample date is approximately 0.004 feet per foot (ft/ft) to the southwest. According to the discussion by the previous consultant, groundwater gradient has been historically to the southwest at approximately 0.004 to 0.007 ft/ft and has been calculated by Provost & Pritchard as 0.004 ft/ft southwest since 4<sup>th</sup> quarter 2022. Thus, this quarter's gradient is consistent with historical flow.

Based on hydrographs produced using historical groundwater elevations at the site, seasonal trends are not apparent in MW-1 and the remainder of wells are generally highest in the winter and lowest in the summer, though not consistently in a particular quarter. Groundwater elevation has overall been trending very slightly downward over time. This quarter groundwater levels in the monitoring wells decreased between 0.4 and 2.8 feet from the previous quarter. From the third quarter of 2022 to this quarter the groundwater levels increased between 0.2 and 3.8 feet in the monitoring wells. Two of the three piezometers were measured and had water levels 2.1 to 3.4 feet lower than the previous quarter and were dry in third quarter 2022.

## ANALYTICAL RESULTS

Based on the laboratory report in Attachment 5 of the DLI report, this quarter ammonia, arsenic, iron, and volatile organic compounds (VOCs) were not detected in the groundwater samples analyzed. Total coliform bacteria (TCO) and was detected only in CO MW-3. The field pH ranged from 5.70 in CO MW-2, historically the lowest, to 6.84 in CO MW-1 which is often highest. Field electrical conductivity (EC) and total dissolved solids (TDS) had the lowest concentrations upgradient in CO MW-1 and highest in CO MW-2, which is consistent with historical spatial trends. Nitrate as nitrogen (NO<sub>3</sub>-N) had the highest concentration upgradient in CO MW-1, consistent with historical spatial trends. Manganese was highest in CO MW-3 and lowest in CO MW-2, within historic trends, but was higher than typical in CO MW-1.

Based on the graphs in Attachment 4 of the DLI report, most constituent concentrations appear to be relatively consistent over time, with the following exceptions. NO<sub>3</sub>-N appears to be historically increasing in CO MW-1 and recently in CO MW-2 and -3. EC and TDS appear to be gradually increasing recently in CO MW-3 and had a notable increase this quarter in CO MW-2. Iron appears to have decreased in CO MW-3 historically but has been consistent recently.

Groundwater limitations are not set for this site in the associated Waste Discharge Requirements and so concentrations are compared to respective primary or secondary maximum concentration limits (MCLs) identified in Title 22 of the California Code of Regulations. Based on the analyte concentrations in the table in Attachment 4 of the DLI report, secondary MCLs were exceeded for pH and EC in CO MW-2, TDS in CO MW-2 and MW-3, and for manganese in CO MW-1 and MW-3.

## LIMITATIONS

This document has been prepared for the sole use of DLI, the City of Lone, and involved regulatory agencies. Any other person or entity without the express written consent of Provost & Pritchard Consulting Group may not rely upon this document.

Provost & Pritchard's professional services were performed consistent with generally accepted environmental principles and practices in California at the time the services were performed.

No assessment can eliminate uncertainty regarding the potential for recognized environmental conditions. This document is intended to reduce, but not eliminate this uncertainty, recognizing reasonable limits of time and cost. Subsurface variations cannot be known, or entirely accounted for, despite exhaustive testing. This document should not be regarded as a guarantee that no further recognized environmental conditions are present on or beneath the site, beyond that which could have been detected within the scope of work.

In developing this report, Provost & Pritchard has relied on information that was prepared or provided by others. Provost & Pritchard assumes that this information is accurate and correct, unless noted. Changes in existing conditions at the site due to time lapse, natural causes, or operations on adjoining properties, may deem the information inappropriate.

No guarantee or warranty, expressed or implied, is made.

Respectfully,



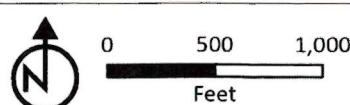
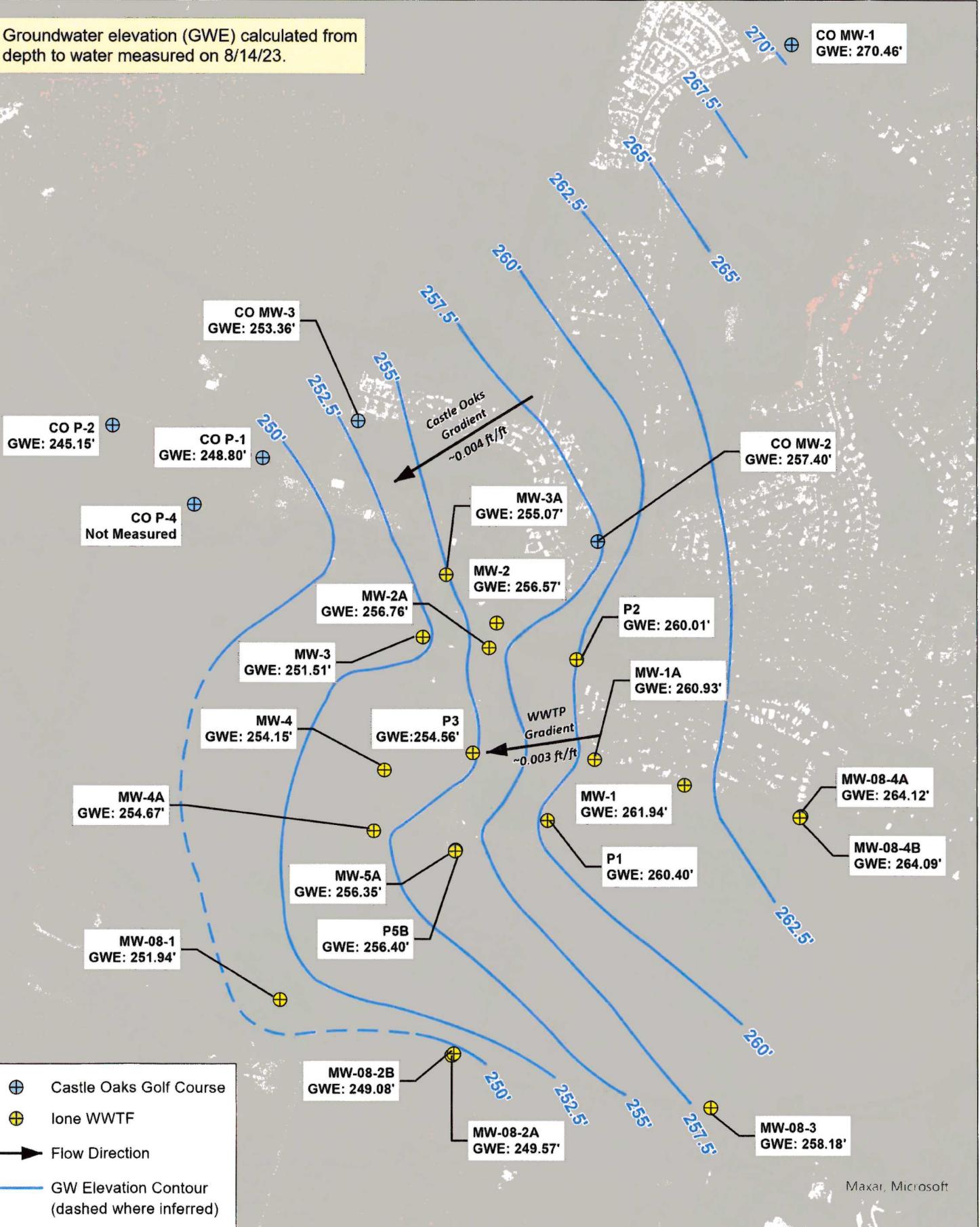
Darylyn Tachella, PG  
Senior Geologist

Enclosure: Groundwater Elevation Map for 8/14/23

Castle Oaks Golf Course Tertiary Treatment Plant  
WDRs Order No. R5-1993-0240  
WDID: SB050109001

OCTOBER 2023 Monthly Monitoring Report

Groundwater elevation (GWE) calculated from depth to water measured on 8/14/23.



Groundwater Elevation Map  
Ione WWTF & Castle Oaks Golf Course

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Maxar, Microsoft

**Attachment 2**  
**Groundwater Monitoring Network**  
**Measurements and Graphs**



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Historical Groundwater Monitoring Data  
 Castle Oaks Golf Course  
 City of Lone  
 R5-1993-0240-002

Sample ID	Date	Survey	Depth	Ground	Volume	Temp.	Field pH	Field	Dissolved	Oxidation/
		Mark	to Water	Water Elevation						
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Turbidity
Units:	ft. msl	ft. msl	ft. msl	gal	deg C	std units	umhos/cm	mg/L	MV	NTU
MW1	11/30/01	280.75	10.33	270.42						
MW1	3/20/02	280.75	9.08	271.67						
MW1	6/12/02	280.75	8.12	272.63						
MW1	9/17/02	280.75	9.06	271.69						
MW1	12/9/02	280.75	12.29	268.46						
MW1	3/28/03	280.75	10.37	270.38						
MW1	6/17/03	280.75	8.32	272.43						
MW1	10/1/03	280.75	9.32	271.43						
MW1	12/31/03	280.75	10.30	270.45						
MW1	3/31/04	280.75	9.16	271.59						
MW1	6/30/04	280.75	9.09	271.66						
MW1	9/30/04	280.75	8.99	271.76						
MW1	1/3/05	280.75	10.07	270.68						
MW1	4/5/05	280.75	7.76	272.99						
MW1	7/1/05	280.75	7.91	272.84						
MW1	10/21/05	280.75	9.16	271.59						
MW1	3/8/06	280.75	8.39	272.36						
MW1	5/30/06	280.75	8.09	272.66						
MW1	8/30/06	280.75	8.74	272.01						
MW1	11/30/06	280.75	11.21	269.54						
MW1	2/27/07	280.75	9.83	270.92						
MW1	5/31/07	280.75	8.40	272.35						
MW1	8/30/07	280.75	8.23	272.52						

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Historical Groundwater Monitoring Data  
Castle Oaks Golf Course  
City of Lone  
R5-1993-0240-002

Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method		Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	NTU
Units:		ft. msl	ft	ft. msl	gal	deg C	std units	umhos/cm	mg/L	MV	
MW1	11/30/07	280.75	11.69	269.06							
MW1	6/30/08	280.75	8.50	272.25							
MW1	9/30/08	280.75	13.61	267.14							
MW1	11/30/08	280.75	12.92	267.83							
MW1	12/31/08	280.75	12.56	268.19							
MW1	3/12/09	280.75	8.89	271.86	7.0	18.0	6.80	565			
MW1	6/17/09	280.75	8.33	272.42	5.0	20.9	6.45	640	5.06	-15.9	
MW1	9/22/09	280.75	7.99	272.76	3.0	24.21	6.61	576	4.84	96.8	96.8
MW1	12/15/09	280.75	10.11	270.64	5.0	20.52	7.51	582	3.56	39.0	39.0
MW1	3/24/10	280.75	8.86	271.89	5.0	17.65	6.58	643	4.92	71.3	71.3
MW1	6/23/10	280.75	9.06	271.69	5.0	18.55	6.60	680	6.60	101.4	101.4
MW1	9/24/10	280.75	8.69	272.06	5.0	23.30	6.57	587	4.05	280.5	280.5
MW1	12/14/10	280.75	9.66	271.09	5.0	19.61	6.92	598	4.49	104.1	104.1
MW1	3/29/11	280.75	7.49	273.26	5.0	17.10	6.54	614	3.95	-136.8	-136.8
MW1	6/22/11										
								Bent closed, unable to sample			
MW1	9/15/11	280.75	9.29	271.46	5.0	20.81	6.37	586	5.02	79.4	
MW1	12/13/11	280.75	11.01	269.74	4.0	19.49	6.45	591	3.66	55.0	
MW1	3/22/12	280.75	10.13	270.62	4.0	17.09	6.60	590	4.15	63.7	
MW1	6/27/12	280.28	9.84	270.44	5.0	19.46	6.86	582	6.34	88.2	
MW1	9/25/12	280.28	10.28	270.00	4.0	23.87	6.90	606	4.05	49.9	
MW1	12/18/12	280.28	10.92	269.36	10.0	20.49	6.75	578	3.20	144.4	
MW1	3/11/13	280.28	10.30	269.98	6.0	18.46	6.62	590	4.29	126.0	

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Historical Groundwater Monitoring Data  
 Castle Oaks Golf Course  
 City of Lone  
 R5-1993-0240-002

Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen mg/L	Oxidation/Reduction Potential	Turbidity NTU	Metered	
												Metered	Metered
Units:													
MW1	6/26/13	280.28	8.14	272.14	5.0	21.39	6.50	500	4.16	160.4			
MW1	9/13/13	280.28	12.44	267.84	3.0	21.18	6.57	609	3.15	203.4			
MW1	12/12/13	280.28	13.40	266.88	2.0	21.60	6.74	610	2.00	90.2			
MW1	3/5/14	280.28	11.44	268.84	4.0	18.90	6.59	504	3.02	179.4			
MW1	6/16/14	280.28	12.62	267.66	4.0	19.59	6.63	624	2.10	96.4			
MW1	9/17/14	280.28	11.35	268.93	4.0	21.66	6.55	571	1.32	132.6			
MW1	12/19/14	280.28	10.42	269.86	6.0	21.98	6.76	519	2.71	169.3			
MW1	3/23/15	280.28	10.09	270.19	6.0	18.90	6.56	602	3.00	58.1			
MW1	6/10/15	280.28	10.04	270.24	5.0	19.36	5.93	562	3.33	135.1			
MW1	9/16/15	280.28	9.72	270.56	5.0	23.05	6.51	591	4.45	101.5			
MW1	12/15/15	280.28	11.92	268.36	4.0	21.97	6.72	567	2.24	45.6			
MW1	3/29/16	280.28	8.44	271.84	5.0	18.12	6.58	606	3.66	138.9			
MW1	6/20/16	280.28	10.84	269.44	4.0	18.89	6.32	595	2.72	151.2			
MW1	9/7/16	280.28	8.69	271.59	5.0	23.08	6.43	604	5.69	276.9			
MW1	12/7/16	280.28	11.15	269.13	4.0	21.4	6.63	566	1.65	85.2			
MW1	3/8/17	280.28	7.87	272.41	5.0	17.5	6.63	615	4.44	221.7			
MW1	6/15/17	280.28	9.49	270.79	5.0	18.0	6.58	595	3.49	222.2			
MW1	9/14/17	280.28	8.59	271.69	5.0	23.4	6.58	547	4.33	255.4			
MW1	12/6/17	280.28	10.64	269.64	4.0	20.9	6.62	564	4.04	155.7			
MW1	3/9/18	280.28	10.64	269.64	4.0	18.7	6.74	674	3.70	158			

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Historical Groundwater Monitoring Data  
Castle Oaks Golf Course  
City of Ione  
R5-1993-0240-002

Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen umhs/cm	Oxidation/Reduction Potential	Turbidity NTU
Method		Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Units:											
MW1	6/15/18	280.28	10.13	270.15	3.5	17.1	6.53	675	3.60	156	
MW1	9/17/18	280.28	8.79	271.49	4.5	20.1	6.59	670	4.10	140	
MW1	12/17/18	280.28	13.02	267.26	3.0	19.9	6.67	640	2.60	170	
MW1	3/18/19	280.28	7.91	272.37	5.0	17.3	6.74	520	6.80	162	
MW1	5/13/19	280.28	6.54	273.74	4.0	16.8	6.72	576	5.60	157	
MW1	9/16/19	280.28	8.72	271.56	4.5	22.9	6.60	540	6.80	69	
MW1	12/16/19	280.28	11.25	269.03	3.0	19.7	6.68	489	2.29	204	
MW1	3/16/19	280.28	10.33	269.95	3.5	16.9	6.80	412	7.12	181	
MW1	6/16/20	280.28	10.69	269.59	3.5	18.5	6.75	555	3.38	208	
MW1	9/14/20	280.28	9.09	271.19	4.0	20.9	6.75	535	3.14	199	
MW1	12/15/20	280.28	10.77	269.51	3.5	15.9	6.79	564	3.35	221	
MW1	3/17/21	280.28	9.83	270.45	4.0	17.3	6.88	510	3.81	205	
MW1	6/22/21	280.28	10.55	269.73	3.5	19.0	6.79	515	4.13	128	
MW1	9/21/21	280.28	13.11	267.17	2.5	19.2	6.46	545	3.06	206	
MW1	12/14/21	280.28	9.81	270.47	4.0	17.9	6.66	214	7.17	238	
MW1	3/16/22	280.28	10.92	269.36	3.5	17.6	6.44	377	4.01	177	
MW1	6/15/22	280.28	11.94	268.34	3.0	19.6	6.31	463	2.36	200	
MW1	9/22/22	280.28	13.57	266.71	2.5	19.2	6.46	545	3.06	206	
MW1	11/18/22	280.28	10.14	270.14	6.0	21.6	6.75	581	3.90	232	165
MW1	3/2/23	280.28	8.58	271.70	6.0	17.7	6.96	534	1.90	138	92
MW1	5/17/23	280.28	9.38	270.90	4.5	18.8	6.79	499	1.40	147	73
MW1	8/14/23	280.28	9.82	270.46	6.0	21.9	6.84	531	1.80	118	93

Historical Groundwater Monitoring Data  
 Castle Oaks Golf Course  
 City of Ione

R5-1993-0240-002

Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method		Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Units:		ft. msl	ft	ft. msl	gal	deg C	std units	umhos/cm	mg/L	MV	NTU
MW2	11/30/01	272.01			259.34						
MW2	3/20/02	272.01			260.05						
MW2	6/12/02	272.01			259.26						
MW2	9/17/02	272.01			258.12						
MW2	12/9/02	272.01			259.08						
MW2	3/28/03	272.01			259.59						
MW2	6/17/03	272.01			259.09						
MW2	10/1/03	272.01			257.93						
MW2	12/31/03	272.01			259.92						
MW2	3/31/04	272.01			259.72						
MW2	6/30/04	272.01			258.51						
MW2	9/30/04	272.01			257.67						
MW2	1/3/05	272.01			261.09						
MW2	4/5/05	272.01			262.26						
MW2	7/1/05	272.01			258.93						
MW2	10/21/05	272.01			258.46						
MW2	3/8/06	272.01			10.16						
MW2	5/30/06	272.01			261.85						
MW2	8/23/06	272.01			259.90						
MW2	11/30/06	272.01			258.60						
MW2	2/27/07	272.01			14.16						
					11.45						
					260.56						

Historical Groundwater Monitoring Data  
 Castle Oaks Golf Course  
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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	NTU
Units:	ft. msl	ft	ft. msl	gal	deg C	std units	umhos/cm	mg/L	Mv	
MW2	5/31/07	272.01	13.54	258.47						
MW2	8/30/07	272.01	14.02	257.99						
MW2	11/30/07	272.01	13.09	258.92						
MW2	6/30/08	272.01	13.17	258.84						
MW2	9/30/08	272.01	13.90	258.11						
MW2	11/30/08	272.01	13.71	258.30						
MW2	12/31/08	272.01	13.56	258.45						
MW2	3/12/09	272.01	11.56	260.45	7.0	16.4	6.20	1,326		
MW2	6/17/09	272.01	13.40	258.61	8.0	17.6	6.02	1,505	1.63	-35.8
MW2	9/22/09	272.01	13.63	258.38	3.0	18.35	6.07	1,359	2.41	29.8
MW2	12/15/09	272.01	12.56	259.45	5.0	18.10	6.83	1,187	1.82	21.0
MW2	3/24/10	272.01	12.06	259.95	6.0	16.35	6.14	1,317	3.91	79.4
MW2	6/23/10	272.01	13.23	258.78	5.0	16.61	6.09	1,383	4.43	108.2
MW2	9/24/10	272.01	13.43	258.58	5.0	18.03	5.92	1,478	1.93	49.9
MW2	12/14/10	272.01	12.25	259.76	5.0	17.51	6.24	1,266	1.86	-63.3
MW2	3/29/11	272.01	8.64	263.37	8.0	16.32	5.95	1,603	2.43	-169.4
MW2	6/23/11	272.01	12.91	259.10	5.0	15.87	5.91	1,698	3.14	-49.4
MW2	9/15/11	272.01	13.20	258.81	5.0	18.08	6.01	1,684	1.36	-113.1

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/Reduction Potential	Turbidity
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered	NTU
Units:	ft. msl	ft.	ft. msl	gal	deg C	std units	umhos/cm	mg/L	MV		
MW2	12/13/11	272.01	13.09	258.92	5.0	18.21	5.72	1,349	1.80	3.9	
MW2	3/22/12	272.01	11.17	260.84	6.0	16.00	5.74	1,215	2.92	84.8	
MW2	6/27/12	272.01	13.65	258.36	5.0	16.27	5.90	1,459	5.00	66.2	
MW2	9/25/12	272.01	13.64	258.37	5.0	18.11	5.56	1,482	1.96	69.5	
MW2	12/18/12	272.01	12.53	259.48	6.0	18.01	5.90	1,305	1.46	37.9	
MW2	3/11/13	272.01	13.20	258.81	6.0	16.32	5.91	1,416	2.93	147.7	
MW2	6/26/13	272.01	13.91	258.10	5.0	17.48	5.67	1,312	2.86	197.4	
MW2	9/13/13	272.01	14.33	257.68	5.0	17.38	5.39	1,387	4.11	170.3	
MW2	12/12/13	272.01	14.44	257.57	5.0	18.17	5.93	1,219	2.17	58.8	
MW2	3/5/14	272.01	12.40	259.61	5.0	16.39	5.93	1,226	3.31	173.1	
MW2	6/16/14	272.01	13.57	258.44	7.0	16.87	5.84	1,356	1.58	47.8	
MW2	9/17/14	272.01	14.45	257.56	6.0	18.22	5.87	1,246	0.61	174.1	
MW2	12/19/14	272.01	11.10	260.91	6.0	18.34	6.01	953	1.01	186.6	
MW2	3/23/15	272.01	12.67	259.34	5.0	16.56	5.63	1,206	0.36	36.7	
MW2	6/10/15	272.01	12.72	259.29	5.0	16.69	5.49	1,210	0.29	101.0	
MW2	9/16/15	272.01	14.45	257.56	5.0	18.67	5.72	1,382	1.14	87.6	
MW2	12/15/15	272.01	12.44	259.57	6.0	18.47	5.90	1,331	2.04	45.2	
MW2	3/29/16	272.01	11.23	260.78	6.0	16.27	5.71	1,461	0.36	126.7	
MW2	6/20/16	272.01	13.08	258.93	5.0	16.53	5.61	1,502	1.02	174.1	
MW2	9/7/16	272.01	13.68	258.33	5.0	18.17	5.61	1,532	0.42	271.0	

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Dissolved Oxygen	Oxidation/Reduction Potential	Turbidity
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	NTU
Units:	ft. msl	ft	ft. msl	gal	deg C	std units	umhos/cm	mg/L	Mv	
MW2	12/7/16	272.01	12.30	259.71	5.0	18.3	5.75	1,354	0.42	2.5
MW2	3/8/17	272.01	10.08	261.93	7.0	15.9	5.72	1,611	1.67	200
MW2	6/15/17	272.01	12.97	259.04	6.0	16.2	5.60	2,016	0.60	180.2
MW2	9/14/17	272.01	13.87	258.14	5.0	18.4	5.80	1,874	1.22	174.4
MW2	12/6/17	272.01	13.17	258.84	5.0	18.7	5.76	1,679	0.96	143.7
MW2	3/9/18	272.01	12.68	259.33	7.0	16.7	5.89	1,881	1.9	60
MW2	6/15/18	272.01	13.23	258.78	6.0	16.2	5.77	1,854	2.3	213
MW2	9/17/18	272.01	13.81	258.20	5.5	18.0	5.95	1,942	4.7	228
MW2	12/17/18	272.01	13.39	258.62	6.0	17.5	6.07	1,500	3.2	229
MW2	3/18/19	272.01	10.97	261.04	7.0	16.1	5.94	1,333	5.4	220
MW2	5/13/19	272.01	12.60	259.41	6.0	16.1	5.89	1,415	4.4	215
MW2	9/16/19	272.01	13.75	258.26	5.5	18.6	5.78	1,675	3.6	48
MW2	12/16/19	272.01	12.28	259.73	6.5	17.7	5.79	1,421	1.52	254
MW2	3/16/20	272.01	12.27	259.74	6.5	14.3	5.91	1,519	1.99	252
MW2	6/16/20	272.01	13.65	258.36	6.5	16.5	5.88	1,500	1.35	252
MW2	9/14/20	272.01	14.28	257.73	5.5	18.2	5.83	1,569	1.87	247
MW2	12/15/20	272.01	13.29	258.72	6.0	16.9	5.96	1,527	2.79	239
MW2	3/17/21	272.01	12.37	259.64	6.5	15.3	6.02	1,153	2.45	245
MW2	6/22/21	272.01	13.50	258.51	6.0	17.0	5.81	1,181	1.59	188
MW2	9/21/21	272.01	14.94	257.07	5.0	18.3	5.61	1,253	2.08	239

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered	Metered
Units:	ft. msl	ft.	ft. msl	gal	deg C	std units	umhos/cm	mg/L	MV	NTU	
MW2	12/14/21	272.01	11.43	260.58	7.0	17.3	5.84	669	4.43	274	
MW2	3/16/22	272.01	12.27	259.74	6.5	15.3	5.72	800	1.87	216	
MW2	6/15/22	272.01	13.01	259.00	6.0	17.0	5.52	1,060	1.85	223	
MW2	9/22/22	272.01	14.80	257.21	5.0	18.3	5.61	1,253	2.68	239	
MW2	11/28/22	272.01	14.75	257.26	6.0	18.3	6.30	1,370	3.10	228	
MW2	03/02/23	272.01	11.20	260.81	9.0	15.7	5.96	1,327	2.30	157	293
MW2	05/17/23	272.01	13.06	258.95	6.0	16.0	5.89	1,490	0.90	171	287
MW2	08/14/23	272.01	14.61	257.40	6.0	18.0	5.70	1,924	1.60	199	7

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered	Metered
Units:	ft. msl	ft	ft. msl	gal	deg C	std units	umhos/cm	mg/L	MV	NTU	
MW3	11/30/01	264.86	9.86	255.00							
MW3	3/20/02	264.86	8.86	256.00							
MW3	6/12/02	264.86	10.54	254.32							
MW3	9/17/02	264.86	11.12	253.74							
MW3	12/9/02	264.86	10.26	254.60							
MW3	3/28/03	264.86	9.87	254.99							
MW3	6/17/03	264.86	10.37	254.49							
MW3	10/1/03	264.86	11.19	253.67							
MW3	12/31/03	264.86	9.58	255.28							
MW3	3/31/04	264.86	9.26	255.60							
MW3	6/30/04	264.86	10.74	254.12							
MW3	9/30/04	264.86	11.41	253.45							
MW3	1/3/05	264.86	8.90	255.96							
MW3	4/5/05	264.86	6.72	258.14							
MW3	7/1/05	264.86	9.77	255.09							
MW3	10/21/05	264.86	10.50	254.36							
MW3	3/8/06	264.86	7.54	257.32							
MW3	5/24/06	264.86	8.84	256.02							
MW3	8/23/06	264.86	10.93	253.93							
MW3	11/30/06	264.86	10.51	254.35							
MW3	2/27/07	264.86	8.17	256.69							
MW3	5/31/07	264.86	10.53	254.33							
MW3	8/30/07	264.86	11.16	253.7							
MW3	11/30/07	264.86	10.29	254.57							

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method		Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Units:		ft. msl	ft.	ft. msl	gal	deg C	std units	umhs/cm	mg/L	MV	NTU
MW3	6/30/08	264.86	10.71	254.15							
MW3	9/30/08	264.86	11.35	253.51							
MW3	11/30/08	264.86	10.90	253.96							
MW3	12/31/08	264.86	10.23	254.63							
MW3	3/12/09	264.86	8.60	256.26	5.0	17.5	6.70	475			
MW3	6/17/09	264.86	10.39	254.47	40.0	18.30	6.34	482	2.78	-27.1	
MW3	9/22/09	264.86	11.00	253.86	3.0	18.19	6.58	490	2.88	-2.7	
MW3	12/15/09	264.86	10.13	254.73	10.0	18.22	7.36	510	2.07	11.5	
MW3	3/24/10	264.86	8.95	255.91	11.0	17.64	6.56	555	3.84	-6.1	
MW3	6/23/10	264.86	10.03	254.83	10.0	17.79	6.53	543	3.78	63.7	
MW3	9/24/10	264.86	11.19	253.67	9.0	18.08	6.44	494	2.14	-24.1	
MW3	12/14/10	264.86	9.78	255.08	10.0	18.03	6.72	484	1.40	-28.8	
MW3	3/29/11	264.86	4.23	260.63	13.0	17.47	6.41	505	2.88	-130.9	
MW3	6/23/11	264.86	9.53	255.33	11.0	16.63	6.34	523	1.51	-18.7	
MW3	9/15/11	264.86	10.62	254.24	10.0	17.39	6.60	515	1.11	-82	
MW3	12/13/11	264.86	10.50	254.36	10.0	17.71	5.98	539	1.35	-17.6	
MW3	3/22/12	264.86	9.24	255.62	11.0	16.84	6.01	531	1.66	8.7	
MW3	6/27/12	264.86	10.91	253.95	10.0	16.91	6.12	567	1.83	45.7	
MW3	9/25/12	264.86	11.26	253.60	10.0	17.60	6.23	587	2.74	109.3	
MW3	12/18/12	264.86	9.96	254.90	11.0	17.80	6.51	542	1.55	14.5	
MW3	3/11/13	264.86	10.33	254.53	10.0	17.04	6.38	566	3.35	140.5	
MW3	6/26/13	264.86	11.30	253.56	10.0	17.11	5.42	543	2.24	208.2	
MW3	9/13/13	264.86	11.82	253.04	9.0	17.60	6.07	600	2.99	90.7	
MW3	12/12/13	264.86	11.73	253.13	9.0	17.55	6.41	544	1.52	74.4	

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method		Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered
Units:	ft. msl	ft.	ft. msl	gal	deg C	std units	umhos/cm	mg/L	Mv	NTU	
MW3	3/5/14	264.86	9.61	255.25	11.0	17.29	6.81	591	2.54	68.3	
MW3	6/16/14	264.86	11.26	253.60	12.0	17.69	6.62	657	5.47	57.8	
MW3	9/17/14	264.86	12.61	252.25	9.0	17.87	6.44	596	0.09	2.7	
MW3	12/19/14	264.86	9.41	255.45	11.0	17.94	6.57	550	0.67	162.2	
MW3	3/23/15	264.86	9.79	255.07	8.0	17.28	6.35	606	0.08	41.5	
MW3	6/10/15	264.86	10.45	254.41	10.0	17.08	6.37	571	0.17	71.3	
MW3	9/16/15	264.86	12.62	252.24	9.0	17.79	6.44	597	1.27	-32.3	
MW3	12/15/15	264.86	10.51	254.35	13.0	17.94	6.47	574	1.15	43.8	
MW3	3/29/16	264.86	8.40	256.46	11.0	17.11	6.41	566	0.12	63.5	
MW3	6/20/16	264.86	10.67	254.19	13.0	16.90	6.25	599	0.96	28.3	
MW3	9/7/16	264.86	11.84	253.02	12.0	17.63	6.11	635	0.34	180.4	
MW3	12/7/16	264.86	9.94	254.92	11.0	18.0	6.45	591	0.34	-118.3	
MW3	3/7/17	264.86	6.45	258.41	7.0	16.7	6.38	544	0.16	83.7	
MW3	6/15/17	264.86	9.78	255.08	20.0	16.2	6.40	612	2.91	86.1	
MW3	9/14/17	264.86	11.44	253.42	10.0	17.3	6.35	630	1.44	28.6	
MW3	12/6/17	264.86	10.26	254.60	10.0	18.0	6.41	631	0.81	79.4	
MW3	3/9/18	264.86	9.92	254.94	9.0	17.4	6.58	797	1.4	36	
MW3	6/15/18	264.86	10.32	254.54	9.0	16.8	6.52	893	2.0	118	
MW3	9/17/18	264.86	11.39	253.47	8.5	17.3	6.59	913	5.0	131	
MW3	12/17/18	264.86	10.45	254.41	9.0	18.0	6.51	830	1.4	124	
MW3	3/18/19	264.86	7.60	257.26	10.5	17.6	6.51	620	2.5	159	
MW3	5/13/19	264.86	9.60	255.26	9.5	17.4	6.50	740	1.9	126	
MW3	9/16/19	264.86	11.11	253.75	8.5	18.3	6.45	794	3.1	35	
MW3	12/16/19	264.86	9.70	255.16	9.5	18.6	6.45	723	1.55	198	
MW3	3/16/19	264.86	10.51	254.35	9.0	15.6	6.53	750	1.33	231	

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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Volume Purged, gal.	Temp.	Field pH	Field EC	Dissolved Oxygen	Oxidation/ Reduction Potential	Turbidity
Method	Surveyed	Probe	Calculated	Measured	Metered	Metered	Metered	Metered	Metered	Metered	Metered
Units:	ft. msl	ft.	ft. msl	gal	deg C	std units	umhs/cm	mg/L	Mv	NTU	
MW3	6/16/20	264.86	11.02	253.84	8.5	18.0	6.53	774	1.13	219	
MW3	9/14/20	264.86	12.35	252.51	8.0	18.7	6.55	789	1.68	219	
MW3	12/15/20	264.86	12.99	251.87	8.5	16.5	6.65	804	2.95	218	
MW3	3/17/21	264.86	9.86	255.00	9.0	17.2	6.72	745	2.07	224	
MW3	6/22/21	264.86	11.41	253.45	8.5	18	6.53	729	1.89	183	
MW3	9/21/21	264.86	12.50	252.36	8.0	18.5	6.36	753	1.84	224	
MW3	12/14/21	264.86	9.48	255.38	9.5	17.6	6.60	455	2.67	269	
MW3	3/16/22	264.86	10.05	254.81	9.0	17.2	6.47	524	1.59	211	
MW3	6/15/22	264.86	11.19	253.67	8.5	18.3	6.21	668	1.92	201	
MW3	9/22/22	264.86	12.68	252.18	8.5	18.5	6.36	753	1.84	224	
MW3	11/28/22	264.86	11.86	253.00	9.0	18.6	7.36	724	2.60	192	415
MW3	03/02/23	264.86	7.85	257.01	12.0	16.8	6.76	739	0.70	94	1000+
MW3	05/17/23	264.86	8.70	256.16	9.0	18.6	6.62	705	1.20	106	1000+
MW3	08/14/23	264.86	11.50	253.36	9.0	19.0	6.49	732	3.20	126	127



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Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation
Method		Surveyed	Probe	Calculated	Method		Surveyed	Probe	Calculated	Method		Surveyed	Probe	Calculated
Units:		ft. msl	ft	ft. msl	Units:		ft. msl	ft	ft msl	Units:		ft. msl	ft	ft. msl
P1	Latitude	38.3557	Longitude	-120.9627	P2	Latitude	38.35629	Longitude	-120.9663	P4	Latitude	38.35481	Longitude	-120.9643
P1	4/4/07	264.80	13.20	251.60	P2	4/4/07	261.55	12.37	249.18	P4	4/4/07	264.41	14.81	249.60
P1	5/18/07	264.80	13.54	251.26	P2	5/18/07	261.55	12.80	248.75	P4	5/18/07	264.41	15.18	249.23
P1	1/13/09	264.80	13.73	251.07	P2	1/13/09	261.55	13.62	247.93	P4	1/13/09	264.41	15.46	248.95
P1	3/11/09	264.80	12.47	252.33	P2	3/11/09	261.55	12.08	249.47	P4	3/11/09	264.41	14.28	250.13
P1	9/22/09	264.80	14.67	250.13	P2	9/22/09	261.55	15.17	246.38	P4	9/22/09	264.41	16.58	247.83
P1	12/15/09	264.80	13.43	251.37	P2	12/15/09	261.55	13.66	247.89	P4	12/15/09	264.41	15.04	249.37
P1	3/24/10	264.80	12.61	252.19	P2	3/24/10	261.55	11.91	249.64	P4	3/24/10	264.41	14.39	250.02
P1	6/23/10	264.80	13.34	251.46	P2	6/23/10	261.55	12.65	248.90	P4	6/23/10	264.41	15.08	249.33
P1	9/24/10	264.80	14.44	250.36	P2	9/24/10	261.55	14.35	247.20	P4	9/24/10	264.41	16.11	248.30
P1	12/13/10	264.80	13.09	251.71	P2	12/13/10	261.55	12.72	248.83	P4	12/13/10	264.41	14.74	249.67
P1	3/29/11	264.80	8.05	256.75	P2	3/29/11	261.55	7.54	254.01	P4	3/29/11	264.41	10.68	253.73
P1	6/22/11	264.80	13.04	251.76	P2	6/22/11	261.55	12.39	249.16	P4	6/22/11	264.41	15.05	249.36
P1	9/13/11	264.80	14.50	250.30	P2	9/13/11	261.55	14.39	247.16	P4	9/13/11	264.41	16.40	248.01
P1	12/12/11	264.80	13.91	250.89	P2	12/12/11	261.55	13.40	248.15	P4	12/12/11	264.41	17.78	246.63
P1	3/20/12	264.80	14.29	250.51	P2	3/20/12	261.55	12.54	249.01	P4	3/20/12	264.41	14.53	249.88
P1	6/25/12	264.80	14.29	250.51	P2	6/25/12	261.55	13.71	247.84	P4	6/25/12	264.41	16.08	248.33
P1	9/25/12	264.80	15.02	249.78	P2	9/25/12	261.55	15.17	246.38	P4	9/25/12	264.41	16.88	247.53
P1	12/17/12	264.80	13.74	251.06	P2	12/17/12	261.55	13.51	248.04	P4	12/17/12	264.41	15.59	248.82
P1	3/11/13	264.80	13.75	251.05	P2	3/11/13	261.55	12.97	248.58	P4	3/11/13	264.41	15.50	248.91
P1	6/26/13	264.80	14.87	249.93	P2	6/26/13	261.55	14.78	246.77	P4	6/26/13	264.41	16.62	247.79
P1	9/11/13	264.80	15.80	249.00	P2	9/11/13	261.55	16.03	245.52	P4	9/11/13	264.41	17.59	246.82
P1	12/10/13	264.80	15.88	248.92	P2	12/10/13	261.55	16.11	245.44	P4	12/10/13	264.41	dry	dry
P1	3/4/14	264.80	13.84	250.96	P2	3/4/14	261.55	14.2	247.35	P4	3/4/14	264.41	15.93	248.48
P1	6/16/14	264.80	15.04	249.76	P2	6/16/14	261.55	14.98	246.57	P4	6/16/14	264.41	16.79	247.62
P1	9/17/14	264.80	17.05	247.75	P2	9/17/14	261.55	dry	dry	P4	9/17/14	264.41	dry	dry
P1	12/17/14	264.80	14.24	250.56	P2	12/17/14	261.55	15.47	246.08	P4	12/17/14	264.41	16.34	248.07
P1	3/23/15	264.80	14.05	250.75	P2	3/23/15	261.55	13.43	248.12	P4	3/23/15	264.41	15.89	248.52
P1	6/10/15	264.80	14.56	250.24	P2	6/10/15	261.55	14.26	247.29	P4	6/10/15	264.41	16.54	247.87
P1	9/16/15	264.80	16.80	248.00	P2	9/16/15	261.55	16.89	244.66	P4	9/16/15	264.41	dry	dry



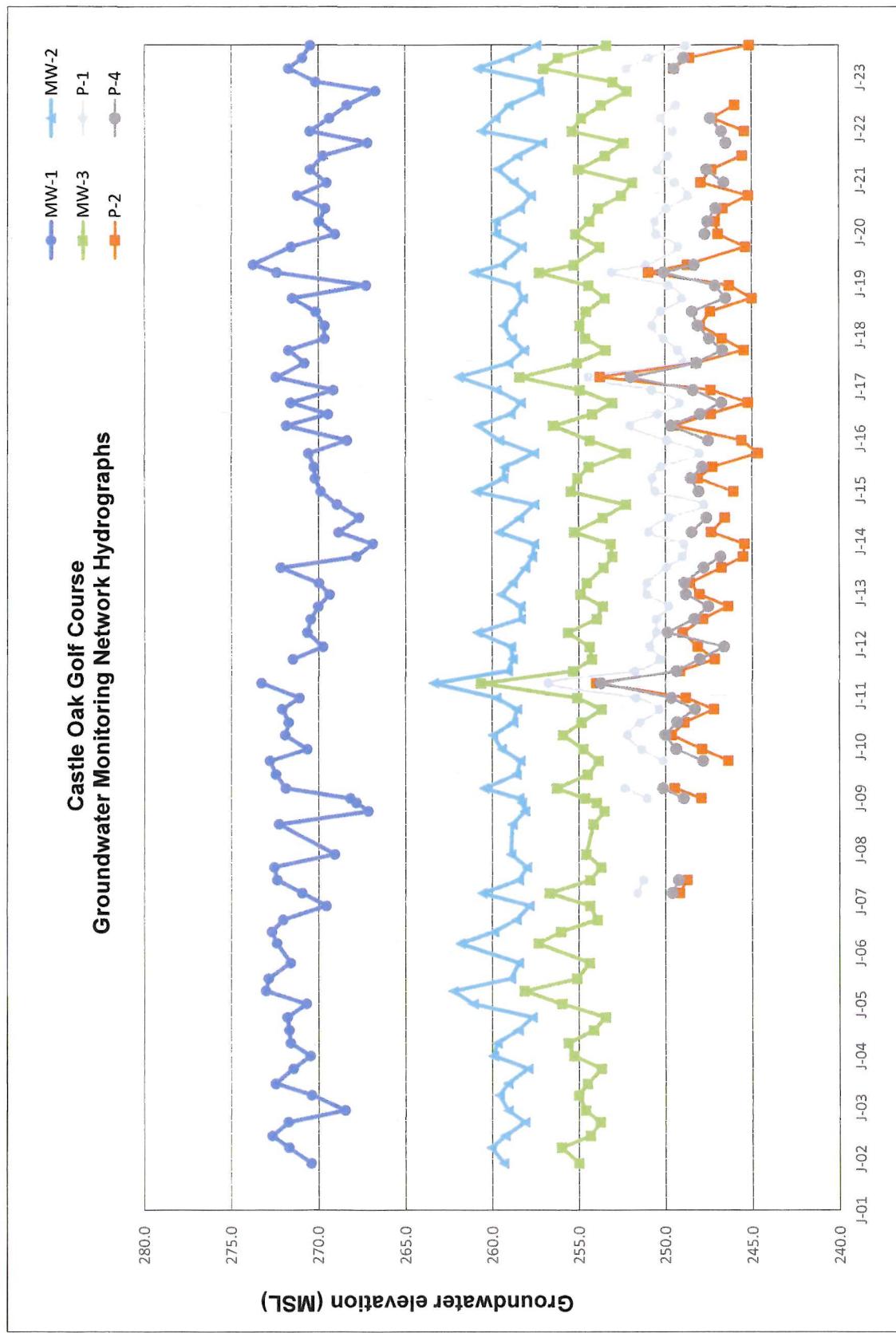
Historical Groundwater Monitoring Data

Castle Oaks Golf Course

City of Ione

R5-1993-0240-002

Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation	Sample ID	Date	Survey Mark Elevation	Depth to Water	Ground Water Elevation
Method		Surveyed	Probe	Calculated	Method		Surveyed	Probe	Calculated	Method		Surveyed	Probe	Calculated
Units:		ft. msl	ft	ft. msl	Units:		ft. msl	ft	ft. msl	Units:		ft. msl	ft	ft. msl
P1	12/15/15	264.80	14.90	249.90	P2	12/15/15	261.55	15.94	245.61	P4	12/15/15	264.41	16.89	247.52
P1	3/29/16	264.80	12.76	252.04	P2	3/29/16	261.55	12.09	249.46	P4	3/29/16	264.41	14.74	249.67
P1	6/20/16	264.80	14.38	250.42	P2	6/20/16	261.55	14.18	247.37	P4	6/20/16	264.41	16.43	247.98
P1	9/7/16	264.80	15.64	249.16	P2	9/7/16	261.55	16.32	245.23	P4	9/7/16	264.41	17.66	246.75
P1	12/7/16	264.80	14.03	250.77	P2	12/7/16	261.55	14.16	247.39	P4	12/7/16	264.41	16.02	248.39
P1	3/8/17	264.80	10.37	254.43	P2	3/8/17	261.55	7.78	253.77	P4	3/8/17	264.41	12.41	252.00
P1	6/13/17	264.80	15.88	248.92	P2	6/13/17	261.55	13.34	248.21	P4	6/13/17	264.41	16.22	248.19
P1	9/12/17	264.80	15.56	249.24	P2	9/12/17	261.55	16.09	245.46	P4	9/12/17	264.41	17.72	246.69
P1	12/4/17	264.80	14.72	250.08	P2	12/4/17	261.55	14.83	246.72	P4	12/4/17	264.41	16.96	247.45
P1	3/9/18	264.80	14.04	250.76	P2	3/9/18	261.55	13.58	247.97	P4	3/9/18	264.41	16.29	248.12
P1	6/14/18	264.80	14.57	250.23	P2	6/14/18	261.55	14.15	247.40	P4	6/14/18	264.41	15.97	248.44
P1	9/17/18	264.80	15.80	249.00	P2	9/17/18	261.55	16.55	245.00	P4	9/17/18	264.41	17.90	246.51
P1	12/17/18	264.80	15.01	249.79	P2	12/17/18	261.55	15.23	246.32	P4	12/17/18	264.41	17.29	247.12
P1	3/18/19	264.80	11.74	253.06	P2	3/18/19	261.55	10.58	250.97	P4	3/18/19	264.41	14.34	250.07
P1	5/10/19	264.80	13.70	251.1	P2	5/10/19	261.55	12.84	248.71	P4	5/10/19	264.41	16.10	248.31
P1	9/15/19	264.80	15.59	249.21	P2	9/15/19	261.55	16.18	245.37	P4	9/15/19	264.41	dry	dry
P1	12/15/19	264.80	14.30	250.50	P2	12/15/19	261.55	14.60	246.95	P4	12/15/19	264.41	16.70	247.71
P1	3/15/19	264.80	14.23	250.57	P2	3/15/19	261.55	14.44	247.11	P4	3/15/19	264.41	16.87	247.54
P1	6/14/20	264.80	14.89	249.91	P2	6/14/20	261.55	14.88	246.67	P4	6/14/20	264.41	17.33	247.08
P1	9/14/20	264.80	16.16	248.64	P2	9/14/20	261.55	16.35	245.20	P4	9/14/20	264.41	dry	dry
P1	12/13/20	264.80	15.39	249.41	P2	12/13/20	261.55	13.62	247.93	P4	12/13/20	264.41	17.80	246.61
P1	3/16/21	264.80	14.38	250.42	P2	3/16/21	261.55	14.24	247.31	P4	3/16/21	264.41	16.81	247.60
P1	6/20/21	264.80	15.00	249.80	P2	6/20/21	261.55	16.00	245.55	P4	6/20/21	264.41	dry	dry
P1	9/21/21	264.80	dry	dry	P2	9/21/21	261.55	dry	dry	P4	9/21/21	264.41	17.93	246.48
P1	12/14/21	264.80	15.27	249.53	P2	12/14/21	261.55	16.13	245.42	P4	12/14/21	264.41	17.68	246.73
P1	3/16/22	264.80	14.60	250.20	P2	3/16/22	261.55	14.28	247.27	P4	3/16/22	264.41	17.03	247.38
P1	6/12/22	264.80	15.45	249.35	P2	6/12/22	261.55	15.56	245.99	P4	6/12/22	264.41	dry	dry
P1	9/24/22	264.80	dry	dry	P2	9/24/22	261.55	dry	dry	P4	9/24/22	264.41	dry	dry
P1	11/28/22	264.80	dry	dry	P2	11/28/22	261.55	dry	dry	P4	11/28/22	264.41	dry	dry
P1	3/2/23	264.80	12.59	252.21	P2	3/2/23	261.55	12.07	249.48	P4	3/2/23	264.41	14.95	249.46
P1	5/17/23	264.80	13.90	250.90	P2	5/17/23	261.55	12.97	248.58	P4	5/17/23	264.41	15.49	248.92
P1	8/14/23	264.80	16.00	248.80	P2	8/14/23	261.55	16.40	245.15	P4	8/14/23	264.41	Unable to access	Unable to access



Note: P-4 was inaccessible.

## **Attachment 3**

### **Field Records**



1910 W. McKinley Avenue, Suite 110 • Fresno, California 93728-1298  
Phone (559) 233-6129 • (800) 228-9896 • Fax (559) 268-8174  
website: [dellavallelab.com](http://dellavallelab.com)



# MONITORING WELL FIELD LOG

## PROJECT SUMMARY - CO MW 1

SAMPLING DATE	PROJECT NAME	PROJECT ADDRESS	SITE CONTACT	PROJECT MANAGER
8/14/2023	Castle Oak Golf Course Monitoring Well Network	Ione, CA	Kathy Stone	Lisa Rubin

## SITE OVERVIEW

LOCATION	MONUMENT WELL CASING	DIAMETER OF CASING/GALLONS PER FOOT DEPTH	DEPTH OF WELL (FT)	DEPTH OF PUMP (FT)	DEPTH TO WATER (FT)	STANDING WATER COLUMN (FT)
Lat: 38.363526 Long: -120.950034	Flush/PVC	2 inches / 0.1632	17.21	15	9.82	7.39

## METHOD OVERVIEW

CALCULATED PURGE VOLUME (GALLON)	PURGE AND SAMPLING METHOD	SAMPLER	SAMPLE TIME	DEPTH TO WATER AT SAMPLING TIME (FT)	ANALYSIS PERFORMED	LAB ANALYSIS
1.21	Waterra Inertial Pump	Del-Tech Antonio Morales	10:32	9.90	See Chain of Custody	Dellavalle Laboratory, Inc.

## FIELD SUMMARY

TIME	ACTUAL VOLUME PURGED (GAL)	PUMP RATE (GPM)	PH (UNITS)	EC (µS/CM)	TEMP (CELSIUS)	O.R.P (MVOLTS)	TURBIDITY (N.T.U)	DO (PPM)	COLOR	ODOR
10:25	0	1	6.63	607	21.9	194	95	2.5		
10:27	2	1	6.76	531	21.6	157	105	2.3		
10:29	2	1	6.81	533	21.7	135	98	1.7		
10:31	2	1	6.84	531	21.9	118	93	1.8	tan	none

sampled

# MONITORING WELL FIELD LOG

## PROJECT SUMMARY – CO MW 2

SAMPLING DATE	PROJECT NAME	PROJECT ADDRESS	SITE CONTACT	PROJECT MANAGER
8/14/2023	Castle Oak Golf Course Monitoring Well Network	Ione, CA	Kathy Stone	Lisa Rubin

## SITE OVERVIEW

LOCATION	MONUMENT WELL CASING	DIAMETER OF CASING/GALLONS PER FOOT DEPTH	DEPTH OF WELL (FT)	DEPTH OF PUMP (FT)	DEPTH TO WATER (FT)	STANDING WATER COLUMN (FT)
Lat: 38.354154 Long: -120.954648	Post/PVC	2 inches / 0.1632	24.83	22	14.61	10.22

## METHOD OVERVIEW

CALCULATED PURGE VOLUME (GALLON)	PURGE AND SAMPLING METHOD	SAMPLER	SAMPLE TIME	DEPTH TO WATER AT SAMPLING TIME (FT)	ANALYSIS PERFORMED	LAB ANALYSIS
1.67	Waterra Inertial Pump	Del-Tech Antonio Morales	10:01	15.50	See Chain of Custody	Dellavalle Laboratory, Inc.

## FIELD SUMMARY

TIME	ACTUAL VOLUME PURGED (GAL)	PUMP RATE (GPM)	PH (UNITS)	EC (µS/CM)	TEMP (CELSIUS)	O.R.P. (MVOLTS)	TURBIDITY (N.T.U.)	DO (PPM)	COLOR	ODOR
9:54	0	1	6.00	1910	18.2	222	23	1.0		
9:56	2	1	5.73	1928	18.2	212	15	1.4		
9:58	2	1	5.72	1920	18.0	204	11	1.7		
10:00	2	1	5.70	1924	18.0	199	7	1.6	clear	none

# MONITORING WELL FIELD LOG

## PROJECT SUMMARY – CO MW 3

SAMPLING DATE	PROJECT NAME	PROJECT ADDRESS	SITE CONTACT	PROJECT MANAGER
8/14/2023	Castle Oak Golf Course Monitoring Well Network	Ione, CA	Kathy Stone	Lisa Rubin

## SITE OVERVIEW

LOCATION	MONUMENT WELL CASING	DIAMETER OF CASING/GALLONS PER FOOT DEPTH	DEPTH OF WELL (FT)	DEPTH OF PUMP (FT)	DEPTH TO WATER (FT)	STANDING WATER COLUMN (FT)
Lat: 38.356405 Long: -120.960409	Post/PVC	2 inches / 0.1632	28.09	26	11.50	16.59

## METHOD OVERVIEW

CALCULATED PURGE VOLUME (GALLON)	PURGE AND SAMPLING METHOD	SAMPLER	SAMPLE TIME	DEPTH TO WATER AT SAMPLING TIME (FT)	ANALYSIS PERFORMED	LAB ANALYSIS
2.71	Waterra Inertial Pump	Del-Tech Antonio Morales	9:22	25.10	See Chain of Custody	Dellavalle Laboratory, Inc.

## FIELD SUMMARY

TIME	ACTUAL VOLUME PURGED (GAL)	PUMP RATE (GPM)	PH (UNITS)	EC (µS/CM)	TEMP (CELSIUS)	O.R.P (MVOLTS)	TURBIDITY (N.T.U)	DO (PPM)	COLOR	ODOR
9:12	0	1	7.00	815	19.6	127	16	3.5		
9:15	3	1	6.52	772	18.7	130	106	2.8		
9:18	3	1	6.48	736	18.9	130	120	3.3		
9:21	3	1	6.49	732	19.0	126	127	3.2	Light brown	none

sampled

## NOTES

WELL INSPECTION REPORT(S)	WEATHER	QUALITY CONTROL AND CONTAINMENT
Slow recharge in MW-3 Unable to access field for CO P-4.	83-98 degrees Fahrenheit. Clear with winds 2-3 mph	All measurements are made from the north side and top edge of the well casing. Dedicated purge tubing and water purged to the ground. Pump cleaned as necessary.

## INSTRUMENTATION

TYPE OF INSTRUMENTATION	MANUFACTURER	SERIAL NO.
6P Multi Meter	Myron L Company	6223581
Turbidity Meter	Oakton	98703
Dissolved Oxygen Meter	Milwaukee	2290134991
D.T.W Meter	Heron Instruments, Inc.	I2FF2102146EC

## CALIBRATIONS

TYPE OF INSTRUMENT	DATE	STANDARD MEASUREMENTS	PRE-CALIBRATED READING	CALIBRATED READING
pH Meter	8/14/23	4 units	4.01	4.00
		7 units	6.80	7.00
		10 units	10.01	10.00
Electrical Conductivity	8/14/23	1413 µS/cm	1416	1413
Turbidity	8/14/23	20 NTU	20	20
Dissolved Oxygen	8/14/23	100 %	100	100

Note: Upon completing the initial readings of the instruments, the instruments are adjusted to the calibration standard solutions that are being used at the time and at the current ambient temperature.

**Attachment 4**  
**Historical Water Quality Data and Graphs**



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Phone (559) 233-6129 • (800) 228-9896 • Fax (559) 268-8174  
website: [dellavallelab.com](http://dellavallelab.com)

Historical Groundwater Quality Data  
 Castle Oaks Golf Course  
 City of Lone  
 R5-1993-0240-002

Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	pH	Ammonia as N (NH <sub>4</sub> -N)	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H+	SM 4500	SM 2510 B	SM 2540 C	EPA 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 300.0	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B	
Units	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units	umhos/cm	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL	2.2	2.2	10			900-1600	500		0.010	0.3	0.05	250		0.010	0.3	0.05		
MW1	1/13/01	4																
MW1	3/20/02	8		3.5	ND					353								
MW1	6/12/02	4		3.8	ND					342								
MW1	9/17/02	ND		0.5	ND					337								
MW1	12/9/02	ND		2.4	ND					384								
MW1	3/28/03	17		2.6	ND					381								
MW1	6/17/03	ND		8.9	ND					392								
MW1	10/1/03	2		2.0	ND					332								
MW1	1/23/03	ND		2.3	ND					370								
MW1	3/31/04	ND		6.2	ND					370								
MW1	6/30/04	ND		3.2	ND					335								
MW1	9/30/04	ND		1.2	ND					282								
MW1	1/3/05	ND		4.3	ND					332			ND	ND	0.0036	11.0	0.18	ND
MW1	4/5/05	2		20.0	ND					405			ND	ND	ND	ND	ND	ND
MW1	7/1/05	2		4.7	ND					344			ND	ND	ND	ND	ND	ND
MW1	10/21/05	2		1.2	ND					317			ND	ND	ND	ND	ND	1.3
MW1	3/8/06	4		8.0	ND					354			ND	ND	ND	ND	ND	0.84
MW1	5/30/06	ND		7.2	ND					359			ND	ND	ND	ND	ND	1.4
MW1	8/29/06	ND		2.5	ND					300			ND	ND	47	34	ND	0.68
MW1	12/8/06	ND		4.1	ND					411			ND	ND	51	27	0.0048	4.6
MW1	3/8/07	ND		4.6	ND					382			ND	ND	51	26.9	ND	0.91

Historical Groundwater Quality Data  
 Castle Oaks Golf Course  
 City of Lone  
 R5-1993-0240-002

Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>4</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H+	SM 2510 B	SM 2540 C	EPA 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 300.0	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B	
Units	MPN/100ml	MPN/100ml	mg/L	mg/L	units	umhos/cm	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL	2.2	2.2	10		900-1600	500		0.010	0.3	0.05	250				0.010	0.3	0.05	
MW1	6/19/07	ND	ND	5.6	ND					ND	ND	46	37	ND	0.085	ND	0.72	
MW1	9/27/07	ND	ND	3.2	ND					ND	ND	72	36	ND	ND	ND	0.98	
MW1	12/13/07	ND	ND	4.4	ND					ND	ND				0.0043	12.4	0.24	
MW1	6/30/08	ND	ND	5.8	ND					ND	ND	78	34	ND	0.490	0.095	0.82	
MW1	11/30/08	ND	ND	5.2	ND					ND	ND	58	27	0.055	13.60	0.205	0.62	
MW1	12/31/08	ND	ND	5.4	ND					ND	ND	60	27	0.003	9.98	0.142	0.29	
MW1	3/12/09	14	ND	7.6	ND					ND	ND	60	27	ND	0.173	ND	0.50	
MW1	6/17/09	ND	ND	7.1	0.04					ND	ND	0.024	72	32			0.63	
MW1	9/22/09	ND	ND	5.7	0.025					ND	ND							
MW1	12/15/09	ND	ND	6.0	ND					ND	ND							
MW1	3/24/10	14	ND	6.9	0.049					ND	ND	0.076	0.0042					
MW1	6/23/10	4	ND	6.3	ND					ND	ND	0.022	0.0038					
MW1	9/24/10	280	ND	3.8	ND					ND	ND	0.047	0.0030					
MW1	12/14/10	2.0		5.0	ND					ND	ND	0.0013						
MW1	3/29/11	23		11.0	0.059					ND	ND	0.084	0.0019					
MW1	6/22/11														Bent closed unable to sample			
MW1	9/15/11	30		5.9	ND					410		ND	0.0054	ND				
MW1	12/13/11	80	ND	5.7	ND					390		0.0089	0.0057	ND				
MW1	3/22/12	ND		6.2	ND					350		ND	0.0220	0.0011				
MW1	6/27/12	8.0	ND	5.7	ND					390		ND	0.0067	ND				
MW1	9/25/12	ND		5.4	ND					370		ND	0.0031					

Historical Groundwater Quality Data  
 Castle Oaks Golf Course  
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 R5-1993-0240-002

Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>4</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H+	SM 2510 B	SM 4500 H+	SM 2540 C	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.7	EPA 300.0	EPA 300.0	EPA 200.7	EPA 200.8	EPA 200.7	SM 5310 B	
Units:	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units	units/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL	<b>2.2</b>	<b>2.2</b>	<b>10</b>		<b>900-1600</b>		<b>500</b>			<b>0.010</b>	<b>0.3</b>	<b>0.05</b>		<b>250</b>	<b>0.010</b>	<b>0.3</b>	<b>0.05</b>	
MW1	12/18/12	ND	5.6	ND				320		ND	ND	ND						
MW1	3/11/13	33	5.5	ND				360		ND	0.039	ND						
MW1	6/26/13	22	5.4	0.025				300		ND	0.220	0.016						
MW1	9/13/13	50	6.2	0.019				350		ND	0.520	0.099						
MW1	12/12/13	4.0	6.3	0.061				360		ND	0.036	0.033						
MW1	3/5/14	> 1600	5.5	0.029				260		ND	1.300	0.110						
MW1	6/16/14	ND	7.1	ND				360		0.0130	ND	0.011						
MW1	9/17/14	23	5.4	ND				340		ND	0.088	0.0042						
MW1	12/19/14	50	4.3	ND				330		ND	ND	ND						
MW1	3/23/15	ND	7.1	ND				420		ND	ND	ND						
MW1	6/10/15	ND	6.9	ND				440		ND	ND	ND						
MW1	9/16/15	2.0	4.0	ND				380		0.0078	ND	ND						
MW1	12/15/15	13	5.0	ND				410		0.0043	ND	ND						
MW1	3/29/16	ND	14.0	ND				480		ND	ND	ND						
MW1	6/20/16	1.8	7.3	0.025				420		0.0038	0.030	0.0040						
MW1	9/7/16	2.0	6.7	ND				380		ND	ND	0.010						
MW1	12/7/16	ND	6.2	ND				360		ND	0.140	0.011						
MW1	3/8/17	2.0	19.0	ND				410		ND	ND	0.00025						
MW1	6/15/17	ND	9.9	0.098				440		ND	ND	0.00060						
MW1	9/14/17	ND	5.8	ND				370		0.0099	ND	0.00023						

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 City of Lone  
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Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>4</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H <sup>+</sup>	SM 2510 B	SM 2540 C	EPA 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 300.0	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B	
Units	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units	umho/cm	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCl.	2.2	2.2	10		900-1600	500		0.010	0.3	0.05	250		0.010	0.3	0.05			
MW1	12/6/17	2.0		7.1	0.028			360		ND	ND	0.00642						
MW1	3/9/18	8		7.9	0.024			360		0.00040	ND	0.0028						
MW1	6/15/18	220		7.5	0.025			440		ND	ND	0.00048						
MW1	9/17/18	920		7.0	0.075			350		0.00043	ND	0.016						
MW1	12/17/18	49		7.0	0.23			390		ND	ND	0.00089						
MW1	3/18/19	920		9.9	ND			380		0.00039	ND	0.0037						
MW1	5/13/19	920		8.5	0.11			370		ND	0.036	0.0021						
MW1	9/16/19	350		4.0	0.096			330		0.00046	0.14	0.0040						
MW1	12/16/19	920		7.1	ND			300		0.00074	ND	0.0120						
MW1	3/16/19	920		14.0	0.072			270		ND	0.11	0.0043						
MW1	6/16/20	920		6.8	0.080			350		ND	0.048	0.018						
MW1	9/14/20	240		7.0	0.081			370		0.00058	ND	0.053						
MW1	12/15/20	9.3		6.6	0.089			290		0.00040	ND	0.017						
MW1	3/17/21	34		6.6	0.086			340		ND	ND	0.019						
MW1	6/22/21	ND		6.5	0.087			370		0.00003	ND	0.007						
MW1	9/21/21	79		7.5	0.087			350		0.00073	ND	0.0085						
MW1	12/14/21	920		8.9	ND			220		0.00047	0.049	0.033						
MW1	3/16/22	17		7.3	0.074			310		ND	ND	0.0010						
MW1	6/15/22	ND		8.0	0.11			380		ND	ND	0.0029						

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Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>3</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H <sub>+</sub>	SM 2510 B	SM 2540 C	EPA 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B	
Units	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units	µmho/cm	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL	2.2	2.2	10		900-1600	500		0.010	0.3	0.05	250		0.010	0.3	0.05			
MW1	9/22/22	350	9.0	ND				370		0.00077	ND	0.0044						
MW1	11/28/22	1.1	6.8	ND	7.0	751	337			ND	ND	ND						
MW1	3/2/23	17	10.7	ND	6.8	574	347			ND	ND	ND						
MW1	5/17/23	<1.8	7.7	ND	6.9	585	310			ND	ND	ND						
MW1	8/14/23	<1.8	7.3	ND	6.9	504	365			ND	ND	ND	0.08					

NM - Not Measured

ND - Not Detected



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Sample ID	Date	Total Coliform Bacteria (FCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>4</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221 B	SM 9221 E	SM 4500 H <sub>+</sub>	SM 2540 B	SM 2540 C	SM 4500 H <sub>+</sub>	SM 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B	
Units	MPN/100ml	MPN/100ml	mpn/L	mpn/L	units	units	µmhos/cm	µg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL	2.2	2.2	10		900-1600	500			0.010	0.3	0.05	250		0.010	0.3	0.05		
MW2	11/30/08	ND	ND	0.08	ND			1,010			0.022	0.018	142	90	ND	0.056	0.018	2.4
MW2	12/31/08	ND	17	0.16	ND			969			ND	0.021	134	92	0.024	8.74	0.093	1.7
MW2	3/12/09	ND	ND	0.14	ND			947			0.053	0.018	156	81	ND	0.506	0.020	1.9
MW2	6/17/09	ND	ND	0.19	0.027			1100			ND	0.053	0.028	160	83			1.8
MW2	9/22/09	ND	ND	0.10	ND			1100			0.020	0.190	0.036					
MW2	12/15/09	ND	ND	0.17	0.029			870			ND	0.300	0.034					
MW2	3/24/10	ND	ND	0.16	0.034			920			ND	0.110	0.029					
MW2	6/23/10	900	240	0.26	ND			1100			ND	0.087	0.029					
MW2	9/24/10	> 1600	2	0.32	ND			1300			ND	0.16	0.033					
MW2	12/14/10	> 1600		0.06	ND			940			ND	0.31	0.032					
MW2	3/29/11	ND		0.58	ND			1100			ND	0.029	0.037					
MW2	6/23/11	500		2.50	ND			1100			ND	ND	0.036					
MW2	9/15/11	ND		0.25	ND			1200			ND	ND	0.033					
MW2	12/13/11	40	ND	0.18	ND			980			0.013	0.0170	0.034					
MW2	3/22/12	17		0.27	ND			810			0.0089	0.0220	0.027					
MW2	6/27/12	4.0	ND	0.19	0.025			1100			ND	ND	0.034					
MW2	9/25/12	11		0.13	ND			1100			ND	0.130	0.035					
MW2	12/18/12	ND		0.09	ND			830			ND	0.120	0.033					
MW2	3/11/13	ND		0.13	ND			960			ND	0.076	0.036					
MW2	6/26/13	26		0.07	0.11			1000			0.0095	0.430	0.031					
MW2	9/13/13	ND		0.12	ND			1000			ND	0.290	0.024					
MW2	12/12/13	ND		0.21	0.039			960			ND	1.100	0.095					
MW2	3/5/14	ND		0.11	0.034			770			0.013	0.044	0.011					
MW2	6/16/14	ND		0.15	ND			980			ND	0.0091						
MW2	9/17/14	ND		0.14	ND			820			ND	0.059	0.019					

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Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>3</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Sodium	Total Arsenic	Total Iron	Total Manganese	Total TOC
Method/Analysis		SM 9221 B	SM 9221 E	SM 4500 H <sub>+</sub>	SM 2510 B	SM 2540 C	SM 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B	
Units		MPN/100ml	MPN/100ml	mg/L	units	units	mg/L	mg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
MCL	2.2	2.2	10			900-1600	500			0.010	0.3	0.05	250		0.010	0.3	0.05	
MW2	12/15/14	ND	0.14	ND				600			ND	ND	ND	ND	ND	ND	ND	ND
MW2	3/23/15	4.0	0.08	ND					840			ND	ND	ND	ND	ND	ND	ND
MW2	6/10/15	ND	0.09	ND					900			0.00059	ND	ND	0.020	ND	ND	ND
MW2	9/16/15	ND	0.11	ND					920			0.00065	ND	ND	0.022	ND	ND	ND
MW2	12/15/15	ND	0.06	ND				960			0.00052	ND	ND	0.0044	ND	ND	ND	ND
MW2	3/29/16	170	0.34	ND				940			ND	ND	ND	0.014	ND	ND	ND	ND
MW2	6/20/16	ND	0.30	1.2				1000			ND	ND	ND	0.015	ND	ND	ND	ND
MW2	9/7/16	ND	0.21	0.033				1000			ND	ND	ND	0.023	ND	ND	ND	ND
MW2	12/7/16	ND	0.21	ND				960			0.00044	ND	ND	0.033	ND	ND	ND	ND
MW2	3/8/17	ND	1.30	ND				1100			ND	ND	ND	0.0070	ND	ND	ND	ND
MW2	6/15/17	ND	5.90	0.083				1500			0.00087	ND	ND	0.019	ND	ND	ND	ND
MW2	9/14/17	ND	0.98	ND				1400			0.0010	ND	ND	0.029	ND	ND	ND	ND
MW2	12/6/17	13	0.65	0.057				1100			0.00057	ND	ND	0.014	ND	ND	ND	ND
MW2	3/9/18	5	0.65	0.057				1100			0.00057	ND	ND	0.014	ND	ND	ND	ND
MW2	6/15/18	650	0.46	0.028				1200			ND	ND	ND	0.024	ND	ND	ND	ND
MW2	9/17/18	79	0.10	0.092				1200			0.00078	0.084	ND	0.023	ND	ND	ND	ND
MW2	12/17/18	7.8	0.12	0.10				920			0.00038	ND	ND	0.024	ND	ND	ND	ND
MW2	3/18/19	170	0.92	ND				960			0.00043	ND	ND	0.011	ND	ND	ND	ND
MW2	5/13/19	240	2.60	0.071				980			ND	0.20	0.018					
MW2	9/16/19	920	0.40	0.10				1100			ND	ND	0.023					
MW2	12/16/19	540	0.41	ND				960			0.00073	0.068	0.035					
MW2	3/16/20	8.2	0.24	ND				1100			ND	0.075	0.032					
MW2	6/16/20	350	4.00	ND				1000			ND	0.074	0.048					
MW2	9/14/20	280	0.26	0.079				1100			ND	ND	0.022					
MW2	12/15/20	20	0.13	0.039				1100			ND	ND	0.022					

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Method/Analysis	SM 9221 B	SM 9221 E	SM 4500 H+	SM 2510 B	SM 4500 H+	SM 2540 C	SM 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.8	EPA 200.7	EPA 200.7	300.0	EPA 200.7	EPA 200.7	SM 5310 B	
Units*	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units/cm	mg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL	2.2	2.2	10			900-1600	500			0.010	0.3	0.05	250		0.010	0.3	0.05	
MW2	3/17/21	130	0.20	0.070				860			ND	ND	ND	ND	0.034			
MW2	6/22/21	240	0.16	0.11				920			0.00057	ND	ND	ND	0.029			
MW2	9/21/21	170	0.51	0.63				880			ND	ND	ND	ND	0.024			
MW2	12/14/21	350	0.47	ND				680			0.00062	ND	ND	ND	0.0038			
MW2	3/16/22	26	0.46	0.068				750			ND	ND	ND	ND	0.0056			
MW2	6/15/22	33	0.38	0.11				870			ND	ND	ND	ND	0.023			
MW2	9/22/22	NM	0.33	0.07				920			0.00069	ND	ND	ND	0.016			
MW2	11/28/22	ND	0.10	ND	6.3	1440	890			ND	ND	ND	ND	ND	ND	ND	ND	
MW2	03/02/23	ND	1.90	ND	6.0	1430	850	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW2	05/17/23	<1.8	3.4	ND	5.9	1740	923	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
MW2	08/14/23	<1.8	1.0	ND	5.9	1840	1420	ND	ND	ND	ND	ND	ND	ND	0.02			

NM - Not Measured

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Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>3</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Iron	Dissolved Arsenic	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	Total TOC
Method/Analysis	SM 9221 B	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H <sub>+</sub>	SM 2510 B	SM 2540 C	EP-A 5242	EPA 200.8	EPA 200.7	EPA 200.7	EPA 200.7	EPA 300.0	EPA 200.8	EPA 200.7	EPA 200.7	SM 5210 B	
Units:	MPN/100mL	MPN/100mL	MPN/100mL	mg/L	mg/L	units	units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL	2.2	2.2	10			900-1600	500		0.010	0.3	0.05	250		0.010	0.3	0.05		
MW3	1/13/01	ND																
MW3	3/20/02	ND		0.15	ND				350									
MW3	6/12/02	ND		ND	ND				307									
MW3	9/17/02	ND		ND	ND				297									
MW3	12/9/02	ND		0.20	ND				289									
MW3	3/28/03	ND		0.12	ND				219									
MW3	6/17/03	ND		0.17	ND				280									
MW3	10/1/03	ND		0.06	ND				278									
MW3	12/31/03	ND		0.07	ND				358									
MW3	3/31/04	ND		0.15	ND				290							15.8	0.18	
MW3	6/30/04	ND		0.07	ND				283							22.8	0.13	
MW3	9/30/04	ND		ND	ND				259							11.0	0.13	
MW3	1/3/05	ND		0.20	ND				232							0.0089	8.1	0.12
MW3	4/5/05	ND		0.21	ND				291							0.014	3.88	0.12
MW3	7/1/05	ND		ND	ND				292							0.017	6.22	0.16
MW3	10/21/05	>2400		ND	0.09	ND			249							0.011	9.20	0.13
MW3	3/8/06	ND		0.11	ND				290							0.0074	2.3	0.14
MW3	5/24/06	ND		ND	ND				306							0.026	48.2	0.192
MW3	8/23/06	ND		ND	ND				256								5.9	
MW3	12/8/06	ND		ND	ND				294							32	0.0057	7.2
MW3	3/8/07	ND		ND	0.30	ND			337							30.1	0.0077	4.7
MW3	6/19/07	ND		0.19	ND				382							3.70	33	0.005
MW3	9/27/07	ND		0.13	ND				321							4.00	0.130	35
MW3	12/13/07	ND		0.09	ND				358							0.140	NM	0.012
MW3	6/30/08	ND		0.10	ND				287							3.00	0.110	35
																32	0.020	24.00
																0.16	2.0	

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Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>4</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Chloride	Total Manganese	Total Iron	Total Arsenic	Total Sodium	Total TOC	
Method/Analysis	SM 9221 B	SM 9221 E	EPA 300.0	SM 4500 H+	SM 2510 B	SM 4540 C	EPAs 242.2	EPAs 200.8	EPAs 200.7	EPAs 200.7	EPAs 200.7	EPAs 200.7	EPAs 200.7	EPAs 200.7	EPAs 200.7	EPAs 200.7	SM 5510 B	
Units	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL	2.2	2.2	10			900-1600	500			0.010	0.3	0.05	250		0.010	0.3	0.05	
MW3	11/30/08	ND	ND	0.29	ND			424		2.94	0.118	36	31	0.012	11.40	0.14	2.0	
MW3	12/31/08	ND	ND	ND	ND			320		2.18	0.140	36	33	0.056	3.73	0.125	1.3	
MW3	3/12/09	ND	ND	0.07	ND			313		2.15	0.129	34	29	0.056	5.340	0.128	1.50	
MW3	6/17/09	ND	ND	0.21	0.091			350		ND	2.20	0.091	31	30				3.0
MW3	9/22/09	ND	ND	0.08	0.095			340		ND	2.80	0.120						
MW3	12/15/09	ND	ND	0.08	0.13			350		ND	1.00	0.100						
MW3	3/24/10	2	ND	0.69	0.1			310		ND	3.10	0.120						
MW3	6/23/10	ND	ND	0.10	0.073			320		ND	3.20	0.110						
MW3	9/24/10	ND	ND	0.04	0.071			350		0.0078	2.60	0.120						
MW3	12/14/10	23		0.06	0.076			300		ND	3.70	0.097						
MW3	3/29/11	23		0.03	0.15			300		ND	3.50	0.100						
MW3	6/23/11	ND		0.13	0.080			310		0.00598	3.90	0.100						
MW3	9/15/11	110		0.08	0.11			360		0.0083	3.80	0.099						
MW3	12/13/11	500	ND	0.11	0.070			500		0.013	3.50	0.100						
MW3	3/22/12	300		0.20	0.088			340		0.0076	2.60	0.100						
MW3	6/27/12	2	ND	0.03	0.066			380		ND	3.10	0.100						
MW3	9/25/12	ND		0.10	0.066			390		ND	1.40	0.110						
MW3	12/18/12	ND		0.05	0.088			300		ND	3.00	0.095						
MW3	3/11/13	ND		0.12	0.036			380		ND	1.20	0.12						
MW3	6/26/13	300		0.05	0.14			400		ND	0.77	0.13						
MW3	9/13/13	ND		0.13	0.019			410		ND	0.41	0.13						
MW3	12/12/13	ND		0.04	0.10			410		ND	0.97	0.17						
MW3	3/5/14	23		0.20	0.068			300		ND	1.30	0.12						
MW3	6/16/14	ND		0.37	ND			410		0.0150	ND	0.13						
MW3	9/7/14	ND		0.18	ND			400		ND	0.32	0.15						

Historical Groundwater Quality Data  
 Castle Oaks Golf Course  
 City of Ionic  
 R5-1993-0240-002

Sample ID	Date	Total Coliform Bacteria (TCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>3</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Sodium	Total Arsenic	Total Iron	Total Manganese	Total TOC
Method/Analysis	SM 9221 B	SM 9221 E	SM 4500	SM 4500	SM 4500	H+	SM 2540 C	SM 2540 B	EPA 524.2	EPA 200.8	EPA 200.7	EPA 200.7	EPA 300.0	EPA 200.7	EPA 200.7	EPA 200.7	EPA 200.7	SM 5310 B
Units	MPN/100ml	MPN/100ml	ng/L	ng/L	units	units/cm	mg/L	mg/L	µg/L	µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
McCL	2.2	2.2	10			900-1600	500			0.010	0.3	0.05	250		0.010	0.3	0.05	
MW3	12/19/14	ND	0.30	0.034				360			ND	0.84	0.11					
MW3	3/23/15	ND	0.14	ND				420			0.0027	0.76	0.098					
MW3	6/10/15	ND	0.24	ND				440			0.0026	0.64	0.096					
MW3	9/16/15	ND	0.11	0.031				410			0.0028	0.90	0.130					
MW3	12/15/15	ND	0.04	0.088				430			0.0035	0.83	0.093					
MW3	3/29/16	14	0.23	ND				400			ND	0.39	0.073					
MW3	6/20/16	ND	0.05	ND				440			0.0029	0.59	0.089					
MW3	9/7/16	ND	0.38	0.029				450			0.0020	0.37	0.120					
MW3	12/7/16	ND	0.17	0.044				400			0.0024	0.46	0.120					
MW3	3/7/17	ND	0.06	ND				370			0.0021	0.53	0.079					
MW3	6/15/17	ND	0.22	0.14				410			0.0026	0.68	0.084					
MW3	9/14/17	> 1600	0.05	0.16				410			0.0032	2.200	0.130					
MW3	12/6/17	540	0.40	0.038				440			0.0019	0.340	0.110					
MW3	3/9/18	10	0.69	0.059				480			0.0014	ND	0.086					
MW3	6/15/18	540	0.58	0.059				550			0.00074	ND	0.150					
MW3	9/17/18	49	0.60	0.12				490			0.0011	ND	0.17					
MW3	12/17/18	1600	0.54	0.210				500			ND	ND	0.31					
MW3	3/18/19	12	0.60	0.062				440			0.00078	ND	0.11					
MW3	5/13/19	> 1600	0.55	0.09				480			0.0010	ND	0.13					
MW3	9/16/19	920	0.97	0.11				550			0.00088	0.34	0.17					
MW3	12/16/19	920	0.92	ND				430			0.0011	0.13	0.14					
MW3	3/16/19	170	1.20	0.069				490			ND	0.065	0.14					
MW3	6/16/20	33	0.79	0.077				480			ND	0.053	0.16					
MW3	9/14/20	22	1.10	0.084				510			ND	ND	0.21					
MW3	12/15/20	27	1.70	0.11				490			ND	ND	0.21					

Historical Groundwater Quality Data  
 Castle Oaks Golf Course  
 City of Lone  
 R5-1993-0240-002

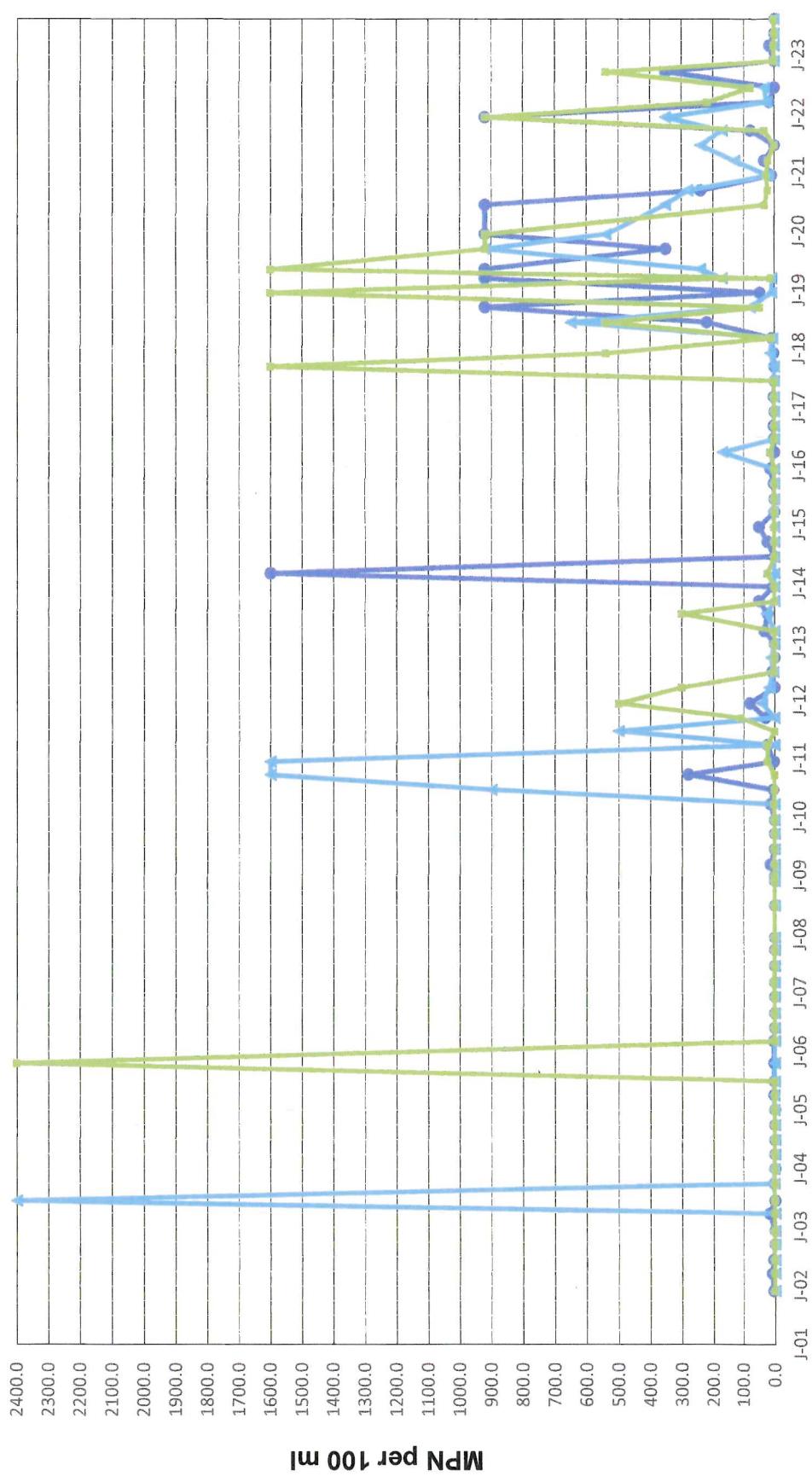
Sample ID	Date	Total Coliform Bacteria (FCO)	Fecal Coliform Bacteria (FCO)	Nitrate as N (NO <sub>3</sub> -N)	Ammonia as N (NH <sub>3</sub> -N)	pH	EC	Total Dissolved Solids (TDS)	VOC	Dissolved Arsenic	Dissolved Iron	Dissolved Manganese	Chloride	Total Sodium	Total Arsenic	Total Iron	Total Manganese	TOC
Method/Analysis	SM 9221-B	SM 9221-E	SM 300-0	SM 4500	SM 4500	SM 4500	H+	SM 2510 B	SM 2540 C	EPA 5242	EPA 200-8	EPA 200-7	EPA 200-7	EPA 200-7	EPA 200-8	EPA 200-7	EPA 200-7	SM 5310 B
Units	MPN/100ml	MPN/100ml	mg/L	mg/L	units	units	units/cm	mg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MCL	2.2	2.2	10					900-1600	500		0.010	0.3	0.05	250		0.010	0.3	0.05
MW3 3/17/21	21		1.40	0.071					470			ND	ND	0.080				
MW3 6/22/21	ND		1.50	0.14					530			0.00066	ND	0.11				
MW3 9/21/21	33		1.80	0.10					530			ND	ND	0.18				
MW3 12/14/21	920		0.85	0.17					460			0.0013	ND	0.13				
MW3 3/16/22	220		0.75	0.088					480			0.00074	ND	0.083				
MW3 6/15/22	79		1.00	0.088					560			0.00074	ND	0.11				
MW3 9/22/22	540		1.60	0.084					530			0.00083	ND	0.14				
MW3 11/28/22	1.1		0.70	ND					610			525		ND	0.12			
MW3 03/03/23	2		0.70	ND					6.5			776	560	ND	ND	0.11		
MW3 05/17/23	<1.8		1.1	ND					6.5			811	160	ND	ND	0.14		
MW3 08/14/23	2		0.3	ND					6.5			687	560	ND	ND	0.10		

NM - Not Measured

ND - Not Detected

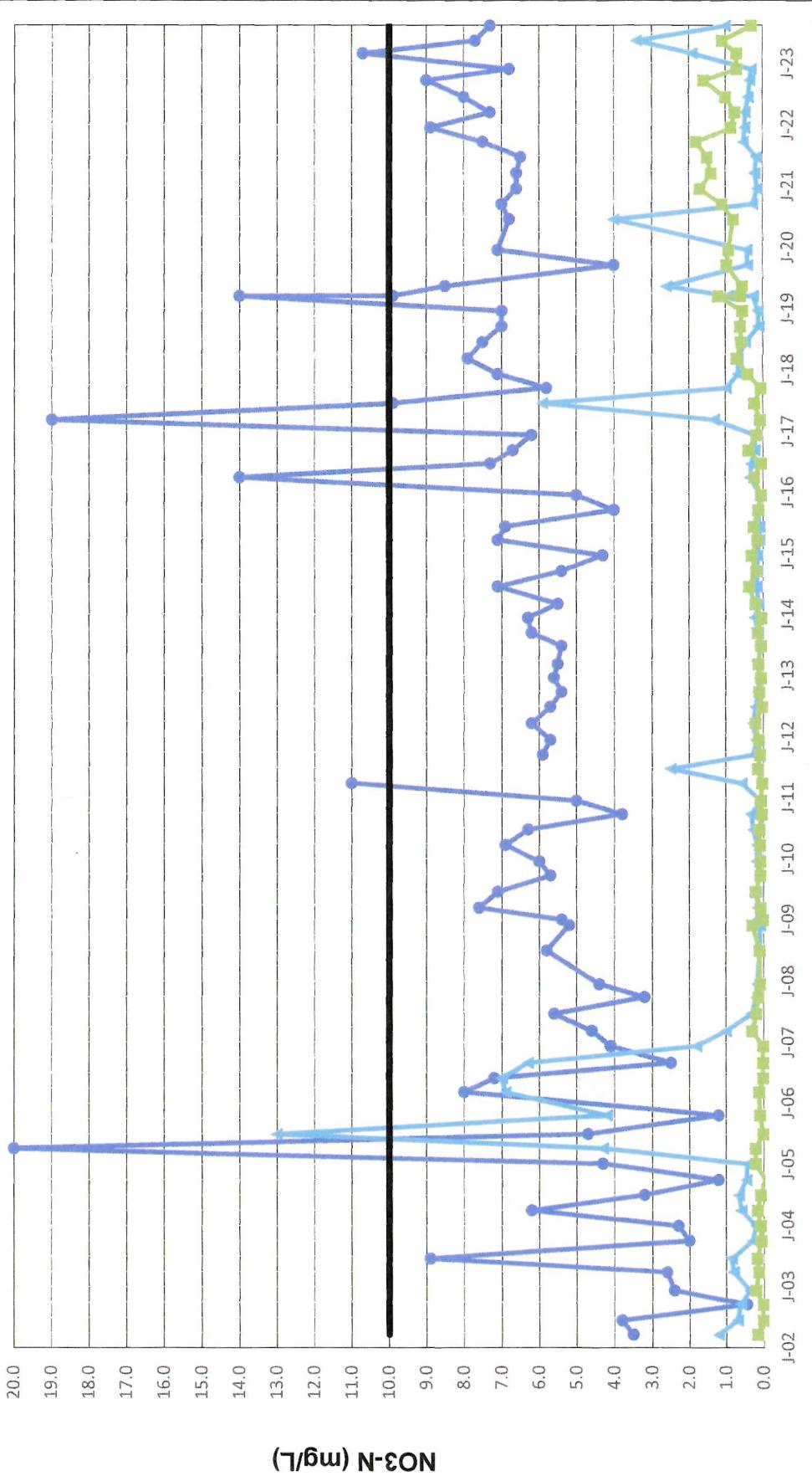
**Castle Oak Golf Course Monitoring Wells**  
**Total Coliform Organism**

MW-1  
MW-2  
MW-3



**Castle Oak Golf Course Monitoring Wells**  
**Nitrate as N (NO<sub>3</sub>-N)**

MW-1  
MW-2  
MW-3  
Primary MCL



**Castle Oak Golf Course Monitoring Wells  
Ammonia as N (NH4-N)**

MW-1      MW-2  
MW-3

1.5

1.4

1.3

1.2

1.1

1.0

0.9

0.8

0.7

0.6

0.5

0.4

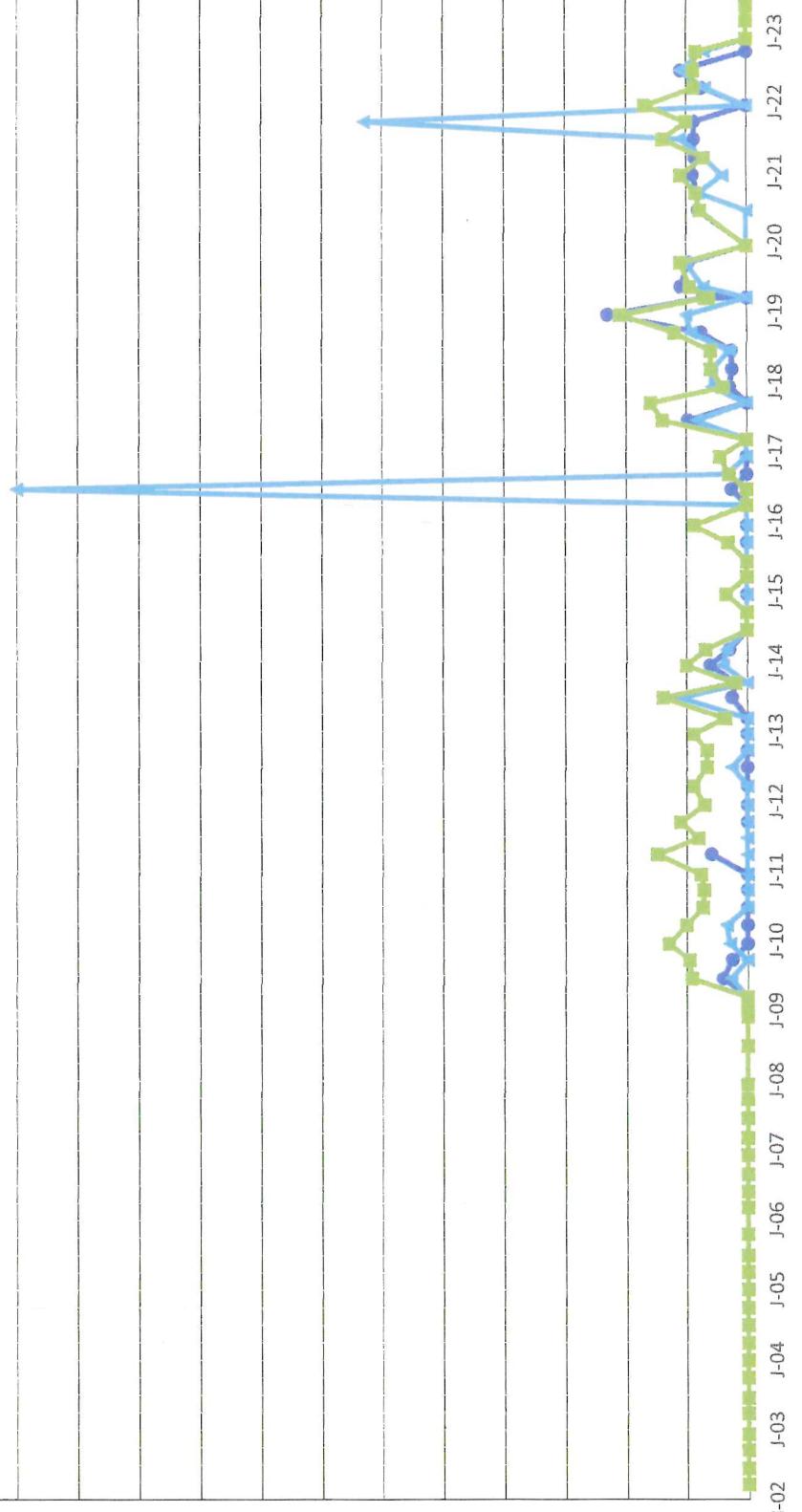
0.3

0.2

0.1

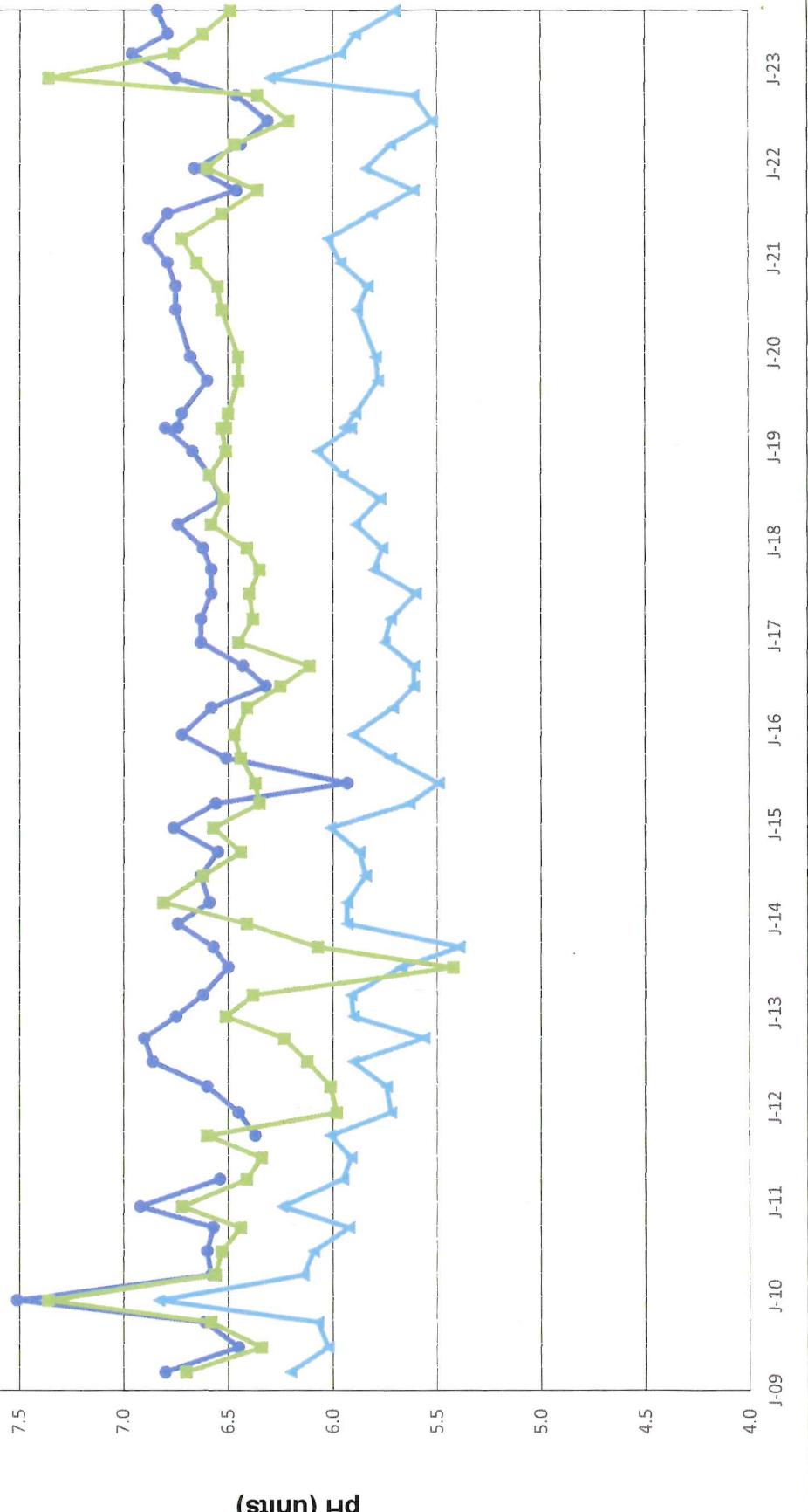
0.0

NH4-N (mg/L)

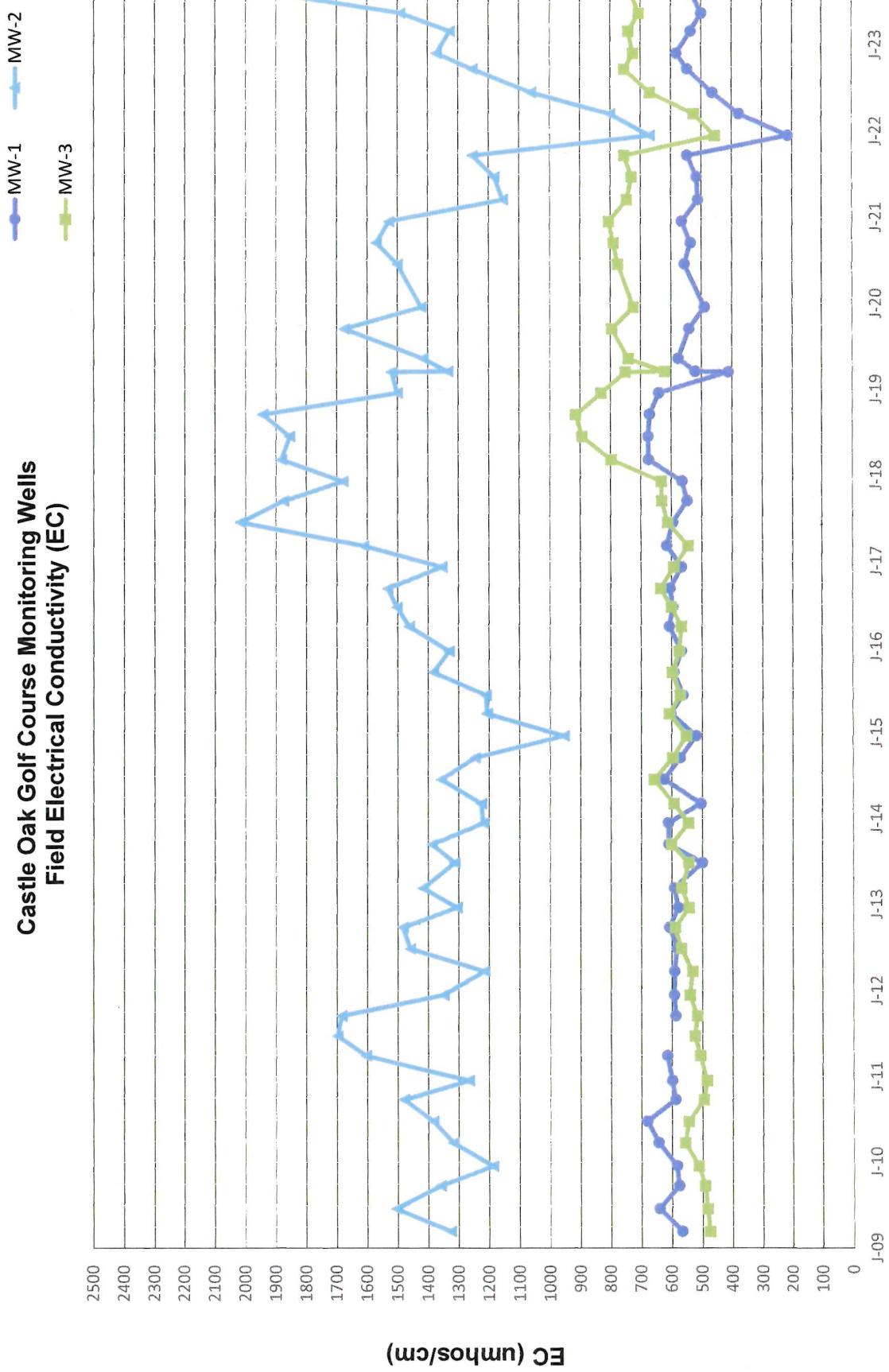


**Castle Oak Golf Course Monitoring Wells**  
**Field pH**

MW-1 MW-2  
MW-3

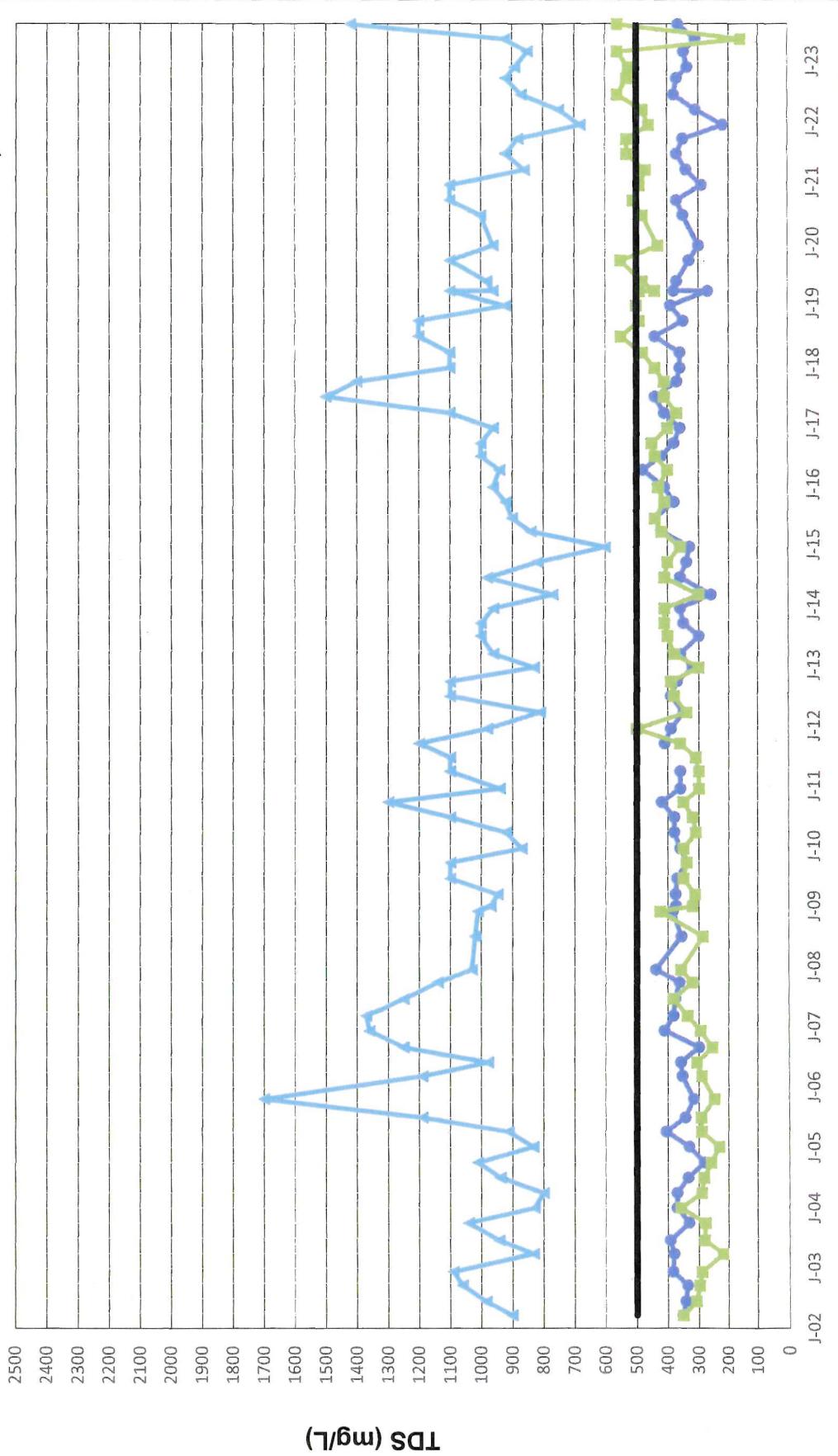


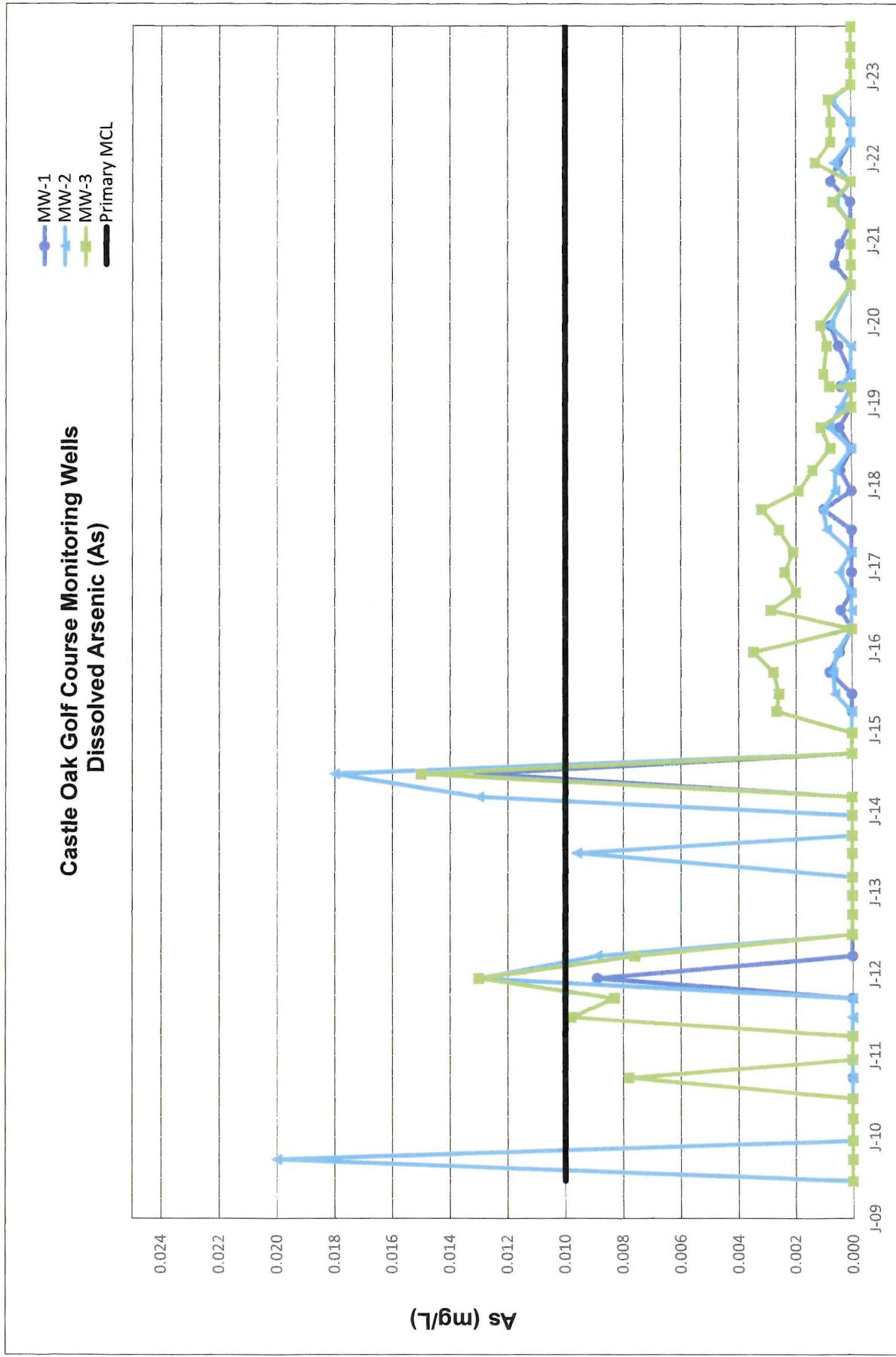
**Castle Oak Golf Course Monitoring Wells**  
Field Electrical Conductivity (EC)



**Castle Oak Golf Course Monitoring Wells**  
**Total Dissolved Solids (TDS)**

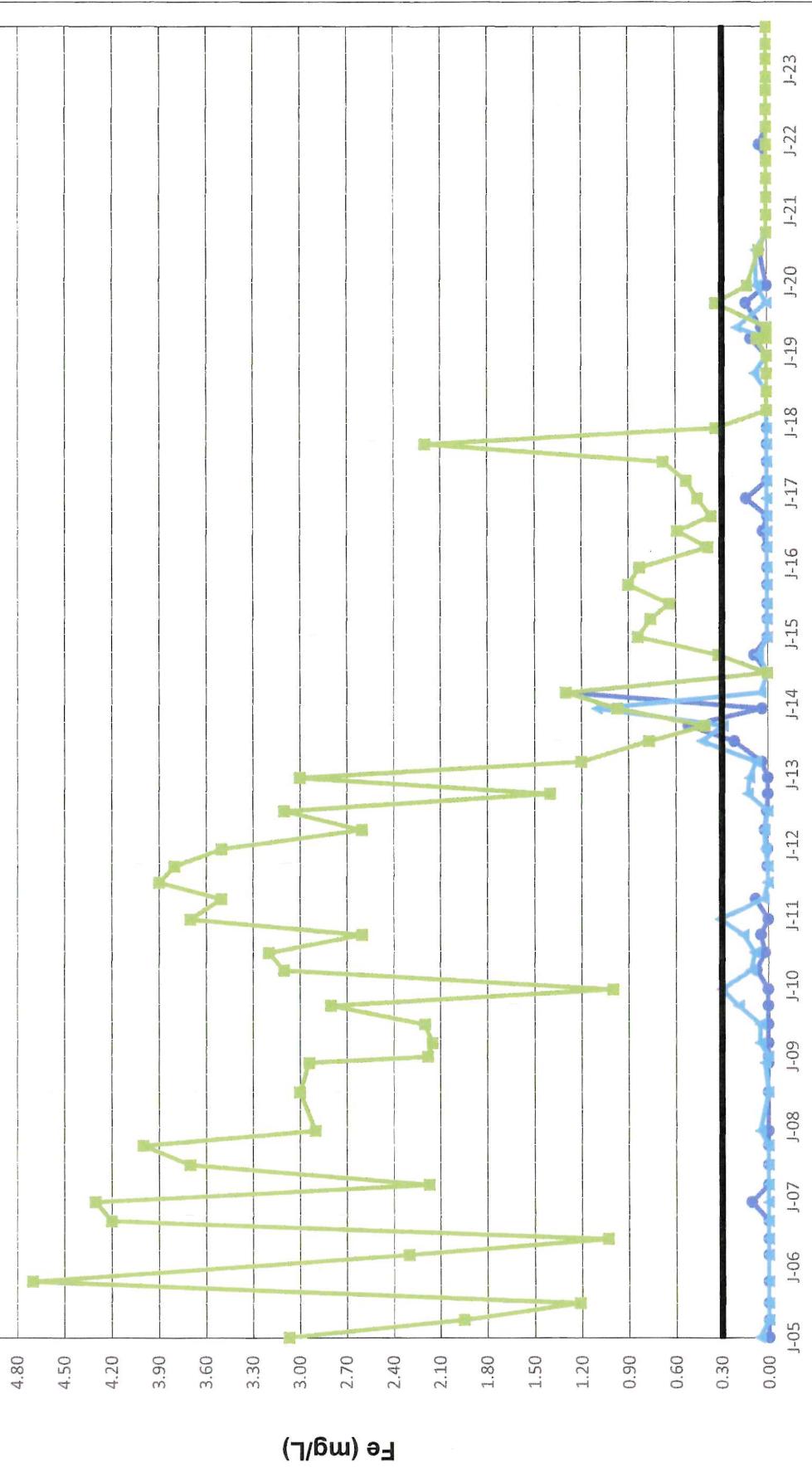
MW-1  
MW-2  
MW-3  
Secondary MCL





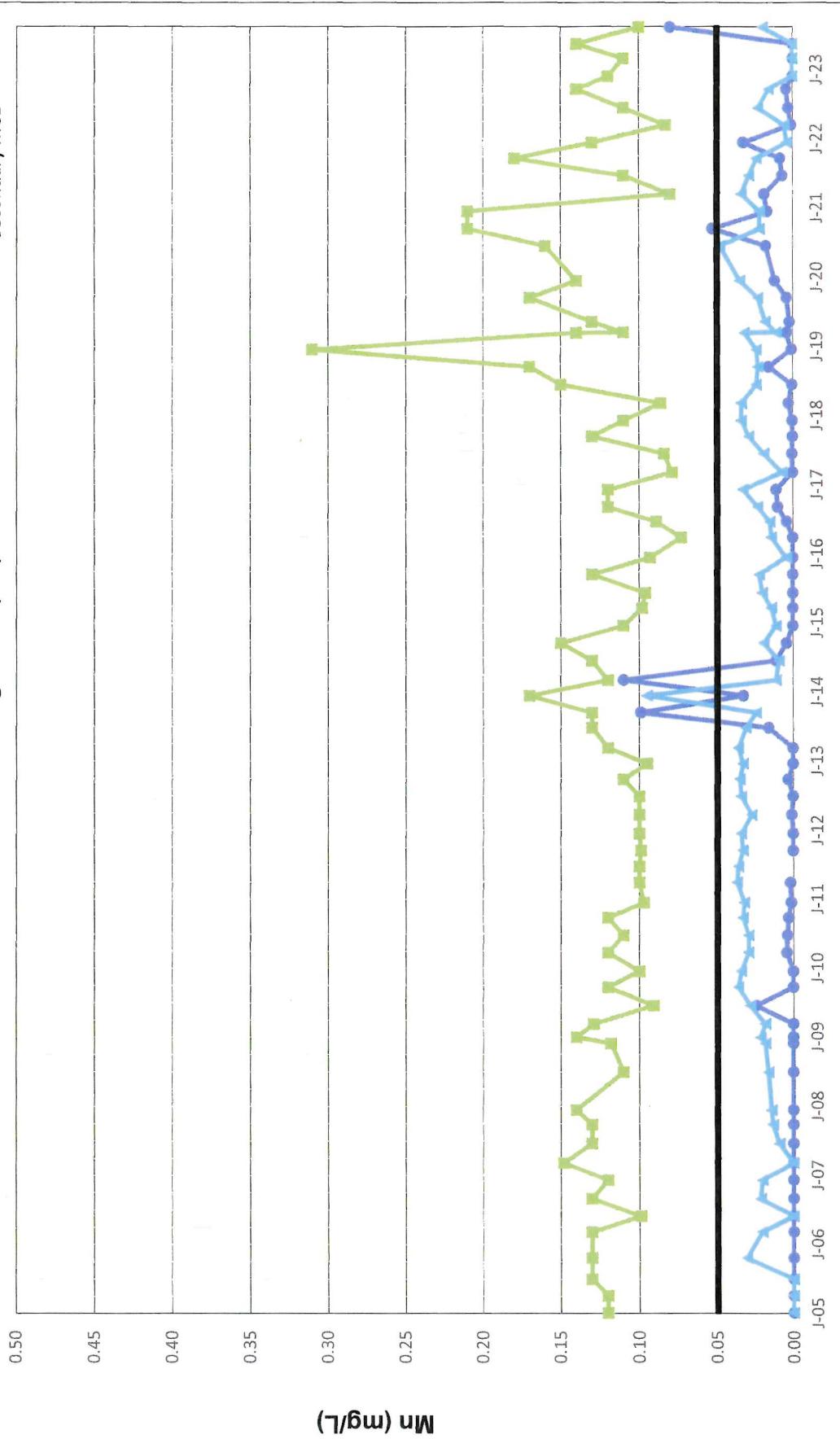
**Castle Oak Golf Course Monitoring Wells**  
**Dissolved Iron (Fe)**

MW-1  
MW-2  
MW-3  
Secondary MCL



**Castle Oak Golf Course Monitoring Wells  
Dissolved Manganese (Mn)**

MW-1  
MW-2  
MW-3  
Secondary MCL



**Attachment 5**  
**Reports of Water Analysis**  
**(Monitoring Wells)**



1910 W. McKinley Avenue, Suite 110 • Fresno, California 93728-1298  
Phone (559) 233-6129 • (800) 228-9896 • Fax (559) 268-8174  
website: [dellavallelab.com](http://dellavallelab.com)



City of Ione  
1 East Main Street  
Ione, CA 95640

Account# 00-0025573  
Account Manager: Lisa Rubin  
Submitted By: Todd Waklee  
Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

Received: 08/15/2023 10:20  
Reported: 08/31/2023 10:10

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1313-01	CO MW-1	Monitoring Well	Antonio Del-Tech		08/14/2023 10:32
23H1313-02	CO MW-2	Monitoring Well	Antonio Del-Tech		08/14/2023 10:01
23H1313-03	CO MW-3	Monitoring Well	Antonio Del-Tech		08/14/2023 9:22

Default Cooler      Temperature on Receipt °C: 3.3  
Containers Intact  
COC/Labels Agree  
Received On Ice

### Notes and Definitions

Item	Definition
H	Hold Time Exceeded
MCL	Drinking Water Maximum Contaminant Level
ND	Analyte NOT DETECTED at or above the reporting limit.
NES	Not Enough Sample
*	Not Taken
RPD	Relative Percent Difference
%REC	Percent Recovery
Source	Sample that was matrix spiked or duplicated.

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

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Course

Received: 08/15/2023 10:20  
Reported: 08/31/2023 10:10

### Sample Results

**Sample: CO MW-1**  
**23H1313-01 (Water)**

Sampled: 8/14/2023 10:32  
Sampled By: Antonio Del-Tech

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.50</b>	mmhos/cm	0.01	1		08/15/23 17:00	SM 2510 B		BEH0723
<b>Electrical Conductivity umhos</b>	<b>504</b>	umhos/cm	10.0	1		08/15/23 17:00	SM 2510 B		BEH0723
Iron	ND	mg/L	0.10	1		08/16/23 14:15	EPA 200.7		BEH0771
<b>Manganese</b>	<b>0.08</b>	mg/L	0.02	1		08/16/23 14:15	EPA 200.7		BEH0771
Ammonia (as N)	ND	mg/L	0.500	1		08/16/23 10:57	SM 4500-NH3 H		BEH0702
Nitrite Nitrogen as NO2N	ND	mg/L	0.4	1	1	08/15/23 19:48	EPA 300.0		BEH0726
<b>Nitrate Nitrogen as NO3N</b>	<b>7.3</b>	mg/L	0.1	1	10	08/15/23 19:48	EPA 300.0		BEH0726
pH	<b>6.9</b>	units	1.0	1		08/15/23 17:00	SM 4500-H+	H	BEH0723
<b>Total Filterable Solids (TDS)</b>	<b>365</b>	mg/L	10.0	1		08/16/23 15:09	SM 2540 C		BEH0718

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Account# 00-0025573  
Account Manager: Lisa Rubin  
Submitted By: Todd Waklee  
Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

Received: 08/15/2023 10:20  
Reported: 08/31/2023 10:10

**Sample: CO MW-2**  
**23H1313-02 (Water)**

Sampled: 8/14/2023 10:01  
Sampled By: Antonio Del-Tech

**Sample Results**  
**(Continued)**

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>1.84</b>	mmhos/cm	0.01	1		08/15/23 17:02	SM 2510 B		BEH0723
<b>Electrical Conductivity umhos</b>	<b>1840</b>	umhos/cm	10.0	1		08/15/23 17:02	SM 2510 B		BEH0723
Iron	ND	mg/L	0.10	1		08/16/23 14:16	EPA 200.7		BEH0771
<b>Manganese</b>	<b>0.02</b>	mg/L	0.02	1		08/16/23 14:16	EPA 200.7		BEH0771
Ammonia (as N)	ND	mg/L	0.500	1		08/16/23 10:58	SM 4500-NH3 H		BEH0702
Nitrite Nitrogen as NO2N	ND	mg/L	0.4	1	1	08/15/23 20:09	EPA 300.0		BEH0726
<b>Nitrate Nitrogen as NO3N</b>	<b>1.0</b>	mg/L	0.1	1	10	08/15/23 20:09	EPA 300.0		BEH0726
pH	<b>5.9</b>	units	1.0	1		08/15/23 17:02	SM 4500-H+	H	BEH0723
<b>Total Filterable Solids (TDS)</b>	<b>1420</b>	mg/L	10.0	1		08/16/23 15:09	SM 2540 C		BEH0718

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Account# 00-0025573  
Account Manager: Lisa Rubin  
Submitted By: Todd Waklee  
Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

Received: 08/15/2023 10:20  
Reported: 08/31/2023 10:10

**Sample: CO MW-3**  
**23H1313-03 (Water)**

Sampled: 8/14/2023 9:22  
Sampled By: Antonio Del-Tech

### Sample Results

(Continued)

Analyte	Result	Units	Reporting Limit	DIL	DW MCL	Date/Time Analyzed	Method	Notes	Batch
<b>Electrical Conductivity</b>	<b>0.69</b>	mmhos/cm	0.01	1		08/15/23 17:03	SM 2510 B		BEH0723
<b>Electrical Conductivity umhos</b>	<b>687</b>	umhos/cm	10.0	1		08/15/23 17:03	SM 2510 B		BEH0723
Iron	ND	mg/L	0.10	1		08/16/23 14:17	EPA 200.7		BEH0771
<b>Manganese</b>	<b>0.10</b>	mg/L	0.02	1		08/16/23 14:17	EPA 200.7		BEH0771
Ammonia (as N)	ND	mg/L	0.500	1		08/16/23 10:59	SM 4500-NH3 H		BEH0702
Nitrite Nitrogen as NO2N	ND	mg/L	0.4	1	1	08/15/23 20:29	EPA 300.0		BEH0726
<b>Nitrate Nitrogen as NO3N</b>	<b>0.3</b>	mg/L	0.1	1	10	08/15/23 20:29	EPA 300.0		BEH0726
pH	<b>6.5</b>	units	1.0	1		08/15/23 17:03	SM 4500-H+	H	BEH0723
<b>Total Filterable Solids (TDS)</b>	<b>560</b>	mg/L	10.0	1		08/16/23 15:09	SM 2540 C		BEH0718

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Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

Received: 08/15/2023 10:20  
Reported: 08/31/2023 10:10

### Quality Control

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0702</b>									
<b>Blank (BEH0702-BLK1)</b>									
Ammonia (as N)	ND	0.500	mg/L						
Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>Blank (BEH0702-BLK2)</b>									
Ammonia (as N)	ND	0.500	mg/L						
Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>LCS (BEH0702-BS1)</b>									
Ammonia (as N)	10.4	0.500	mg/L	9.990		104	90-110		
Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>LCS (BEH0702-BS2)</b>									
Ammonia (as N)	10.1	0.500	mg/L	9.990		101	90-110		
Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>Duplicate (BEH0702-DUP1)</b>									
Ammonia (as N)	ND	0.500	mg/L			ND			10
Source: 23H1173-02 Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>Duplicate (BEH0702-DUP2)</b>									
Ammonia (as N)	ND	0.500	mg/L			ND			10
Source: 23H1316-04 Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>Matrix Spike (BEH0702-MS1)</b>									
Ammonia (as N)	10.9	0.500	mg/L	9.990	ND	109	90-110		
Source: 23H1173-02 Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>Matrix Spike (BEH0702-MS2)</b>									
Ammonia (as N)	10.3	0.500	mg/L	9.990	ND	103	90-110		
Source: 23H1316-04 Prepared: 8/15/2023 Analyzed: 8/16/2023									
<b>Reference (BEH0702-SRM1)</b>									
Ammonia (as N)	5.94		mg/L	5.470		109	90-110		
Prepared: 8/15/2023 Analyzed: 8/16/2023									

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Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

Received: 08/15/2023 10:20

Reported: 08/31/2023 10:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0718</b>									
<b>Blank (BEH0718-BLK1)</b>									
Total Filterable Solids (TDS)	ND	10.0	mg/L		Prepared: 8/15/2023 Analyzed: 8/16/2023				
<b>LCS (BEH0718-BS1)</b>									
Total Filterable Solids (TDS)	22.5	10.0	mg/L	2000	Prepared: 8/15/2023 Analyzed: 8/16/2023	1.12	0-200		
<b>Duplicate (BEH0718-DUP1)</b>									
Total Filterable Solids (TDS)	2540	10.0	mg/L	2420	Prepared: 8/15/2023 Analyzed: 8/16/2023			4.84	10
<b>Duplicate (BEH0718-DUP2)</b>									
Total Filterable Solids (TDS)	310	10.0	mg/L	290	Prepared: 8/15/2023 Analyzed: 8/16/2023			6.67	10
<b>Reference (BEH0718-SRM1)</b>									
Total Filterable Solids (TDS)	320		mg/L	325.0	Prepared: 8/15/2023 Analyzed: 8/16/2023	98.5	90-110		
<b>Reference (BEH0718-SRM2)</b>									
Total Filterable Solids (TDS)	487		mg/L	495.0	Prepared: 8/15/2023 Analyzed: 8/16/2023	98.3	90-110		

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City of Ione  
1 East Main Street  
Ione, CA 95640

Account# 00-0025573  
Account Manager: Lisa Rubin  
Submitted By: Todd Waklee  
Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

Received: 08/15/2023 10:20  
Reported: 08/31/2023 10:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0723</b>									
<b>Blank (BEH0723-BLK1)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	5.4	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0723-BLK2)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	7.3	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Blank (BEH0723-BLK3)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	ND	0.01	mmhos/cm						
pH	6.7	1.0	units						
Electrical Conductivity umhos	ND	10.0	umhos/cm						
<b>Duplicate (BEH0723-DUP1)</b>									
Source: 23H0088-01									
Prepared & Analyzed: 8/15/2023									
pH	8.4	1.0	units		8.4		0.237	10	
Electrical Conductivity	1.25	0.01	mmhos/cm		1.26		0.748	10	
Electrical Conductivity umhos	1250	10.0	umhos/cm		1260		0.748	10	
<b>Duplicate (BEH0723-DUP2)</b>									
Source: 23H1361-04									
Prepared & Analyzed: 8/15/2023									
pH	7.5	1.0	units		7.5		0.266	10	
Electrical Conductivity	0.43	0.01	mmhos/cm		0.43		1.12	10	
Electrical Conductivity umhos	426	10.0	umhos/cm		431		1.12	10	
<b>Reference (BEH0723-SRM1)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	523		umhos/cm		538.0	97.1	90-110		
<b>Reference (BEH0723-SRM2)</b>									
Prepared & Analyzed: 8/15/2023									
pH	5.8		units		5.820	99.8	28178-101.7		
<b>Reference (BEH0723-SRM3)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	939		umhos/cm		1000	93.9	90-110		
Electrical Conductivity umhos	939		umhos/cm		1000	93.9	90-110		
<b>Reference (BEH0723-SRM4)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	941		umhos/cm		1000	94.1	90-110		
Electrical Conductivity umhos	941		umhos/cm		1000	94.1	90-110		
<b>Reference (BEH0723-SRM5)</b>									
Prepared & Analyzed: 8/15/2023									
Electrical Conductivity	950		umhos/cm		1000	95.0	90-110		
Electrical Conductivity umhos	950		umhos/cm		1000	95.0	90-110		

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**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0723 (Continued)</b>									
<b>Reference (BEH0723-SRM6)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEH0723-SRM7)</b>									
pH	4.0		units	4.000		100	97.5-102.5		
<b>Reference (BEH0723-SRM8)</b>									
pH	4.0		units	4.000		100	97.5-102.5		

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**Quality Control**  
(Continued)

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0726</b>									
<b>Blank (BEH0726-BLK1)</b>									
Prepared & Analyzed: 8/15/2023									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Nitrite Nitrogen as NO2N	ND	0.4	mg/L						
<b>Blank (BEH0726-BLK2)</b>									
Prepared & Analyzed: 8/15/2023									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Nitrite Nitrogen as NO2N	ND	0.4	mg/L						
<b>Blank (BEH0726-BLK3)</b>									
Prepared: 8/15/2023 Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N	ND	0.1	mg/L						
Nitrite Nitrogen as NO2N	ND	0.4	mg/L						
<b>LCS (BEH0726-BS1)</b>									
Prepared & Analyzed: 8/15/2023									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	102	90-110			
Nitrite Nitrogen as NO2N	5.3	0.4	mg/L	5.000	106	90-110			
<b>LCS (BEH0726-BS2)</b>									
Prepared: 8/15/2023 Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N	5.1	0.1	mg/L	5.000	103	90-110			
Nitrite Nitrogen as NO2N	5.4	0.4	mg/L	5.000	107	90-110			
<b>Duplicate (BEH0726-DUP1)</b>									
Source: 23H1316-01 Prepared & Analyzed: 8/15/2023									
Nitrate Nitrogen as NO3N	1.2	0.1	mg/L	1.3			2.91	10	
Nitrite Nitrogen as NO2N	ND	0.4	mg/L	ND				10	
<b>Duplicate (BEH0726-DUP2)</b>									
Source: 23H1449-10 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N	0.3	0.1	mg/L	0.3			1.21	10	
Nitrite Nitrogen as NO2N	ND	0.4	mg/L	ND				10	
<b>Matrix Spike (BEH0726-MS1)</b>									
Source: 23H1316-01 Prepared & Analyzed: 8/15/2023									
Nitrate Nitrogen as NO3N	6.4	0.1	mg/L	5.000	1.3	102	90-110		
Nitrite Nitrogen as NO2N	5.0	0.4	mg/L	5.000	ND	99.5	90-110		
<b>Matrix Spike (BEH0726-MS2)</b>									
Source: 23H1449-10 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N	5.5	0.1	mg/L	5.000	0.3	103	90-110		
Nitrite Nitrogen as NO2N	5.1	0.4	mg/L	5.000	ND	101	90-110		
<b>Reference (BEH0726-SRM1)</b>									
Prepared & Analyzed: 8/15/2023									
Nitrate Nitrogen as NO3N	10.4		mg/L	10.00		104	90-110		
Nitrite Nitrogen as NO2N	1.0		mg/L	1.000		102	90-110		
<b>Reference (BEH0726-SRM2)</b>									
Prepared: 8/15/2023 Analyzed: 8/16/2023									
Nitrate Nitrogen as NO3N	10.2		mg/L	10.00		102	90-110		
Nitrite Nitrogen as NO2N	1.0		mg/L	1.000		99.5	90-110		

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Ranch: R5-1993-0240-002 Castle Oak Golf  
Course

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**Quality Control**  
**(Continued)**

Analyte	Result/Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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**Batch: BEH0726 (Continued)**

**Reference (BEH0726-SRM3)**

Nitrate Nitrogen as NO <sub>3</sub> N	10.2	mg/L	10.00		102	90-110
Nitrite Nitrogen as NO <sub>2</sub> N	1.0	mg/L	1.000		99.3	90-110

Prepared: 8/15/2023 Analyzed: 8/16/2023

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Course

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Reported: 08/31/2023 10:10

**Quality Control**  
**(Continued)**

Analyte	Result Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Batch: BEH0771</b>									
<b>Blank (BEH0771-BLK1)</b>									
Iron ND 0.10 mg/L Prepared: 8/15/2023 Analyzed: 8/16/2023									
Manganese ND 0.02 mg/L									
<b>Blank (BEH0771-BLK2)</b>									
Manganese ND 0.02 mg/L Prepared: 8/15/2023 Analyzed: 8/16/2023									
Iron ND 0.10 mg/L									
<b>LCS (BEH0771-BS1)</b>									
Manganese 6.86 0.02 mg/L 7.143 96.1 90-110 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Iron 6.81 0.10 mg/L 7.143 95.4 90-110									
<b>LCS (BEH0771-BS2)</b>									
Iron 6.79 0.10 mg/L 7.143 95.0 90-110 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Manganese 6.85 0.02 mg/L 7.143 95.8 90-110									
<b>Duplicate (BEH0771-DUP1)</b>									
Source: 23H1313-02 Iron 0.03 0.10 mg/L 0.03 9.03 15 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Manganese 0.02 0.02 mg/L 0.02 2.38 15									
<b>Matrix Spike (BEH0771-MS1)</b>									
Source: 23H1313-02 Iron 6.16 0.10 mg/L 7.143 0.03 85.9 90-110 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Manganese 6.16 0.02 mg/L 7.143 0.02 85.9 90-110									
<b>Matrix Spike (BEH0771-MS2)</b>									
Source: 23H1386-05 Iron 6.73 0.10 mg/L 7.143 ND 94.2 90-110 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Manganese 6.84 0.02 mg/L 7.143 0.07 94.8 90-110									
<b>Reference (BEH0771-SRM1)</b>									
Iron 1.88 mg/L 1.910 98.3 90-110 Prepared: 8/15/2023 Analyzed: 8/16/2023									
Manganese 1.37 mg/L 1.400 97.8 90-110									

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# SUBCONTRACT



08/15/23 10:20

23H1313

**Sending Laboratory:**

Dellavalle Laboratory Inc. After Hours Contact:  
1910 McKinley, Ste. 110 Susan Villagran  
Fresno, CA 93728-1298 559-530-1346  
Phone: (559) 233-6129 Martin James  
Fax: (559) 268-8174 559-940-2024  
  
Attn: Kaitlynn Shaw PO# 58817  
dataentry@dellavallelab.com

**Subcontracted Laboratory:**

BSK & Associates - Stanislaus  
687 N. Laverne  
Fresno, CA 93727  
Phone: (559) 497-2888  
Fax: 559 485-6935

Turnaround: Standard  Rush   
State Forms: Yes  No  Sys#

**Work Order: 23H1313****Project: R5-1993-0240-002****Analysis****Sample ID: 23H1313-01 Monitoring Well****Sampled: 8/14/2023 10:32AM**

Client Sample Name: CO MW-1

**Sampled By: Antonio Del-Tech****Comments**EPA 524 w/MTBE:SO  
As Dissolved:SO*Containers Supplied:***Sample ID: 23H1313-02 Monitoring Well****Sampled: 8/14/2023 10:01AM**

Client Sample Name: CO MW-2

**Sampled By: Antonio Del-Tech****Comments**EPA 524 w/MTBE:SO  
As Dissolved:SO*Containers Supplied:***Sample ID: 23H1313-03 Monitoring Well****Sampled: 8/14/2023 9:22AM**

Client Sample Name: CO MW-3

**Sampled By: Antonio Del-Tech****Comments**EPA 524 w/MTBE:SO  
As Dissolved:SO*Containers Supplied:*

8-16-23

Released By

Date

Received By

Date

Released By

Date

Received By

Date



08/15/23 10:20

23H1313

## DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Purchase Order No	23H1313	Bill To: Acct #	Cons #	No. Samples: 3	No of Bottles: 9 bottles + 3-sets of VOAs
Results Need By				<input type="checkbox"/> Drinking Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Ag Water <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Monitoring Well	
Name:	City of Ione				
Billing Address:	1 East Main Street				
City: Ione	State: CA	Zip: 95640			
Telephone:	209-274-2412				
Cell:					
Email:	twaklee@ione-ca.com				
COPY TO:	(1-1 Liter Plastic, Unpreserved) White per site				
	(1-250 mL Plastic w/H <sub>2</sub> SO <sub>4</sub> ) NH <sub>4</sub> -N Yellow per site				
REQUESTED BY:	(1-250 mL Plastic, Unpreserved) White BSK per site				
PROJECT:	(1-set of three VOAs w/HCl) Blue BSK per site				
Site:	Castle Oak Golf Course				
<input type="checkbox"/> Annually Dissolved General Mineral (No MBAS), Dissolved: As, B, K, NO <sub>2</sub> -N, NH <sub>4</sub> -N, TKN, TN, VOCs					
(1-1 Liter Plastic, Unpreserved) per site (1-250 mL Plastic, Unpreserved) As White BSK per site (1-250 mL Plastic w/H <sub>2</sub> SO <sub>4</sub> ) TKN Yellow per site (1-set of three VOAs w/HCl) Blue BSK per site					
<input type="checkbox"/> Co. Health Dept					
<input type="checkbox"/> RWQCB	<input checked="" type="checkbox"/> Copy of Chain				
<input type="checkbox"/> State Forms	<input checked="" type="checkbox"/> QA/QC Documents				

Sampled By:

Antonio / Del-Tech

1/2 SENDOUT

Description of Samples		Date Sampled	Time Sampled	Rec'd Temp °C	Field EC
1	CO MW-1	8/14/23	1032	3.3	
2	CO MW-2	8/14/23	1007	3.1	
3	CO MW-3	8/14/23	027	3.8	
4					

CHAIN OF CUSTODY				
Carrier	Signature	Company	Received Date/Time	Relinquished Date/Time
First		Del-Tech	8/14/23 9:22	8/14/23 1:00
Second		DLI	8/14/23 1:02	8/15/23 10:20
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a liquidated damage fee of 2% per month (annually, 24%) or \$5 00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved in mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Lisa will invoice

Signature  
 Sample received in cooler with ice (coolant)  
 Yes       No



08/15/23 10:20

23H1313

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>										
<input type="checkbox"/> Samples refrigerated before pick up					<input type="checkbox"/> Picked up samples placed in Ice chest					
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>					
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory										
<b>Type of Container(s) Received</b>		<b>Sample Number</b>								
		1	2	3	4	5	6	7	8	9
<b>Sample Containers for Internal (DLI) Use</b> <i>(Containers that go into the Lab)</i>										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic									
	250 mL HNO <sub>3</sub> (Red) Plastic									
	* pH Value									
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic	1	1	1						
	* pH Value	22	22	22						
	500 mL unpreserved (White) Plastic									
	1 L unpreserved (White) Plastic	1	1	1						
1 L unpreserved (BOD) (Purple) Plastic										
Special	500mL unpreserved (White) Glass									
	PO4-P Kit									
	Other:									
<b>Sample Containers for Subcontracted ("Send Out") Analyses</b> <i>(Containers that go in the Subcontract ("Send Out") Refrigerator)</i>										
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL unpreserved (White) Plastic	1	1	1						
	250 mL HNO <sub>3</sub> (Red) Plastic	1								
	250 mL H <sub>2</sub> SO <sub>4</sub> (Yellow) Plastic									
	500 mL HNO <sub>3</sub> (Red)									
	1 L unpreserved (White) Plastic									
	1 L unpreserved (BOD) (Purple) Plastic									
	1 L HNO <sub>3</sub> (Red)									
VOA Vials	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)									
	40mL AG VOA unpreserved (White) (Set of 3)									
	40 mL AG VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)									
	40 mL VOA, HCl (Blue) (Set of 3)	1	1	1						
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)									
Glass	250 mL AG unpreserved (White)									
	250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA									
	500 mL glass unpreserved (White)									
	500 mL AG HCl (Blue)									
	1 L AG unpreserved (White)									
	1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)									
	1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)									
	1 L AG HCl (Blue)									
Special	Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>									
	Cyanide - 500 mL NaOH									
	Asbestos - 1L P wrapped in foil (Set of 2)									
	Sulfide - 1 L AG or P NaOH + ZnAc									
	Chlorite/Bromate - 250 mL AG with EDA									
	HAA5 - 250mL AG Ammonium Chlorite									
	DO KIT									
	Other:									
Other:										



AGH2460

General Non-EDT

23H1313 R5-1993-0240-002

## Certificate of Analysis

City of Lone #25573/54  
Project: R5-1993-0240-002

Sample ID: AGH2460-01

Sampled By: Antonio - Del Tech

Sample Description: 23H1313-01 // CO MW-1

Sample Date - Time: 08/14/2023 - 10:32

Matrix: Water

Sample Type: Grab

## BSK Associates Laboratory Fresno

## Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic - Dissolved (1)	EPA 200.8	ND	2.0	ug/L	1	AGH1727	08/24/23	08/25/23	

## Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<b>Volatile Organics (SDWA Regulated) by GC-MS</b>									
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Benzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Styrene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Tetrachloroethylene (PCE)	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Toluene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	AGH1481	08/21/23	08/21/23	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Total 1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Total Xylenes	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	82 %	Acceptable range: 70-130 %						
Surrogate: Bromofluorobenzene	EPA 524.2	85 %	Acceptable range: 70-130 %						

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGH2460 FINAL 08292023 1404



AGH2460

General Non-EDT

23H1313 R5-1993-0240-002

## Certificate of Analysis

City of lone #25573/54  
Project: R5-1993-0240-002

Sample ID: AGH2460-02

Sampled By: Antonio - Del Tech

Sample Description: 23H1313-02 // CO MW-2

Sample Date - Time: 08/14/2023 - 10:01

Matrix: Water

Sample Type: Grab

## BSK Associates Laboratory Fresno

## Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic - Dissolved (1)	EPA 200.8	ND	2.0	ug/L	1	AGH1727	08/24/23	08/25/23	

## Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<b>Volatile Organics (SDWA Regulated) by GC-MS</b>									
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Benzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Styrene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Tetrachloroethylene (PCE)	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Toluene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Trichloroethylene (TCE)	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	AGH1481	08/21/23	08/21/23	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Total 1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Total Xylenes	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	80 %	Acceptable range: 70-130 %						
Surrogate: Bromofluorobenzene	EPA 524.2	84 %	Acceptable range: 70-130 %						

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AGH2460

General Non-EDT

23H1313 R5-1993-0240-002

## Certificate of Analysis

City of lone #25573/54  
Project: R5-1993-0240-002

Sample ID: AGH2460-03

Sampled By: Antonio - Del Tech

Sample Description: 23H1313-03 // CO MW-3

Sample Date - Time: 08/14/2023 - 09:22

Matrix: Water

Sample Type: Grab

## BSK Associates Laboratory Fresno

## Metals

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Arsenic - Dissolved (1)	EPA 200.8	ND	2.0	ug/L	1	AGH1727	08/24/23	08/25/23	

## Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
<b>Volatile Organics (SDWA Regulated) by GC-MS</b>									
1,1,1-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2,2-Tetrachloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2-Trichloro-1,2,2-trifluoroethane	EPA 524.2	ND	10	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1,2-Trichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,1-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2,4-Trichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichloroethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,2-Dichloropropane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
1,4-Dichlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Benzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Carbon Tetrachloride	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Chlorobenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
cis-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
cis-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Dichloromethane	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Ethylbenzene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
m,p-Xylenes	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Methyl-t-butyl ether	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
o-Xylene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Styrene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Tetrachloroethylene (PCE)	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Toluene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
trans-1,2-Dichloroethene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
trans-1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Trichloroethene (TCE)	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Trichlorofluoromethane	EPA 524.2	ND	5.0	ug/L	1	AGH1481	08/21/23	08/21/23	
Vinyl Chloride	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Total 1,3-Dichloropropene	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Total Xylenes	EPA 524.2	ND	0.50	ug/L	1	AGH1481	08/21/23	08/21/23	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	81 %	Acceptable range: 70-130 %						
Surrogate: Bromofluorobenzene	EPA 524.2	84 %	Acceptable range: 70-130 %						

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AGH2460 FINAL 08292023 1404



AGH2460

General Non-EDT

City of Lone #25573/54  
Project: R5-1993-0240-002

## BSK Associates Laboratory Fresno

## Metals Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed	Qual
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## EPA 200.8 - Quality Control

Batch: AGH1727

Prepared: 8/24/2023

Prep Method: Filtration - Metals

Analyst: AHS

## Blank (AGH1727-BLK1)

Arsenic - Dissolved (1) ND 2.0 ug/L 240 ND 97 85-115 1 20 08/25/23

## Blank Spike (AGH1727-BS1)

Arsenic - Dissolved (1) 230 2.0 ug/L 240 ND 97 85-115 1 20 08/25/23

## Blank Spike Dup (AGH1727-BSD1)

Arsenic - Dissolved (1) 230 2.0 ug/L 240 ND 96 85-115 1 20 08/25/23

## Matrix Spike (AGH1727-MS1), Source: AGH3171-01

Arsenic - Dissolved (1) 230 2.0 ug/L 240 ND 94 70-130 1 20 08/25/23

## Matrix Spike (AGH1727-MS2), Source: AGH3257-01

Arsenic - Dissolved (1) 250 2.0 ug/L 240 15 99 70-130 1 20 08/25/23

## Matrix Spike Dup (AGH1727-MSD1), Source: AGH3171-01

Arsenic - Dissolved (1) 230 2.0 ug/L 240 ND 96 70-130 2 20 08/25/23

## Matrix Spike Dup (AGH1727-MSD2), Source: AGH3257-01

Arsenic - Dissolved (1) 250 2.0 ug/L 240 15 100 70-130 1 20 08/25/23



AGH2460

General Non-EDT

**BSK Associates Laboratory Fresno**  
**Organics Quality Control Report**

City of lone #25573/54  
Project: R5-1993-0240-002

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed Qual
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**EPA 524.2 - Quality Control**

Batch: AGH1481

Prepared: 8/21/2023

Prep Method: EPA 524.2

Analyst: CMF

**Blank (AGH1481-BLK1)**

1,1,1-Trichloroethane	ND	0.50	ug/L						08/21/23
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L						08/21/23
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	10	ug/L						08/21/23
1,1,2-Trichloroethane	ND	0.50	ug/L						08/21/23
1,1-Dichloroethane	ND	0.50	ug/L						08/21/23
1,1-Dichloroethene	ND	0.50	ug/L						08/21/23
1,2,4-Trichlorobenzene	ND	0.50	ug/L						08/21/23
1,2-Dichlorobenzene	ND	0.50	ug/L						08/21/23
1,2-Dichloroethane	ND	0.50	ug/L						08/21/23
1,2-Dichloropropane	ND	0.50	ug/L						08/21/23
1,4-Dichlorobenzene	ND	0.50	ug/L						08/21/23
Benzene	ND	0.50	ug/L						08/21/23
Carbon Tetrachloride	ND	0.50	ug/L						08/21/23
Chlorobenzene	ND	0.50	ug/L						08/21/23
cis-1,2-Dichloroethene	ND	0.50	ug/L						08/21/23
cis-1,3-Dichloropropene	ND	0.50	ug/L						08/21/23
Dichloromethane	ND	0.50	ug/L						08/21/23
Ethylbenzene	ND	0.50	ug/L						08/21/23
m,p-Xylenes	ND	0.50	ug/L						08/21/23
Methyl-t-butyl ether	ND	0.50	ug/L						08/21/23
o-Xylene	ND	0.50	ug/L						08/21/23
Styrene	ND	0.50	ug/L						08/21/23
Tetrachloroethylene (PCE)	ND	0.50	ug/L						08/21/23
Toluene	ND	0.50	ug/L						08/21/23
trans-1,2-Dichloroethene	ND	0.50	ug/L						08/21/23
trans-1,3-Dichloropropene	ND	0.50	ug/L						08/21/23
Trichloroethene (TCE)	ND	0.50	ug/L						08/21/23
Trichlorofluoromethane	ND	5.0	ug/L						08/21/23
Vinyl Chloride	ND	0.50	ug/L						08/21/23
Total 1,3-Dichloropropene	ND	0.50	ug/L						08/21/23
Total Xylenes	ND	0.50	ug/L						08/21/23
Surrogate: 1,2-Dichlorobenzene-d4	40			50		79	70-130		08/21/23
Surrogate: Bromofluorobenzene	42			50		84	70-130		08/21/23

**Blank Spike (AGH1481-BS1)**

1,1,1-Trichloroethane	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
1,1,2,2-Tetrachloroethane	9.2	0.50	ug/L	10	ND	92	70-130		08/21/23
1,1,2-Trichloro-1,2,2-trifluoroethane	9.7	10	ug/L	10	ND	97	70-130		08/21/23
1,1,2-Trichloroethane	9.3	0.50	ug/L	10	ND	93	70-130		08/21/23
1,1-Dichloroethane	9.6	0.50	ug/L	10	ND	96	70-130		08/21/23
1,1-Dichloroethene	9.9	0.50	ug/L	10	ND	99	70-130		08/21/23
1,2,4-Trichlorobenzene	9.4	0.50	ug/L	10	ND	94	70-130		08/21/23
1,2-Dichlorobenzene	9.1	0.50	ug/L	10	ND	91	70-130		08/21/23

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AGH2460 FINAL 08292023 1404



AGH2460

General Non-EDT

City of lone #25573/54  
Project: R5-1993-0240-002

## BSK Associates Laboratory Fresno

## Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Date Limit Analyzed Qual
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## EPA 524.2 - Quality Control

Batch: AGH1481

Prepared: 8/21/2023

Prep Method: EPA 524.2

Analyst: CMF

## Blank Spike (AGH1481-BS1)

1,2-Dichloroethane	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
1,2-Dichloropropane	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
1,4-Dichlorobenzene	9.2	0.50	ug/L	10	ND	92	70-130		08/21/23
Benzene	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
Carbon Tetrachloride	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
Chlorobenzene	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
cis-1,2-Dichloroethene	9.2	0.50	ug/L	10	ND	92	70-130		08/21/23
cis-1,3-Dichloropropene	9.4	0.50	ug/L	10	ND	94	70-130		08/21/23
Dichloromethane	10	0.50	ug/L	10	ND	103	70-130		08/21/23
Ethylbenzene	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
m,p-Xylenes	20	0.50	ug/L	20	ND	98	70-130		08/21/23
Methyl-t-butyl ether	18	0.50	ug/L	20	ND	92	70-130		08/21/23
o-Xylene	9.6	0.50	ug/L	10	ND	96	70-130		08/21/23
Styrene	9.6	0.50	ug/L	10	ND	96	70-130		08/21/23
Tetrachloroethylene (PCE)	9.5	0.50	ug/L	10	ND	95	70-130		08/21/23
Toluene	9.4	0.50	ug/L	10	ND	94	70-130		08/21/23
trans-1,2-Dichloroethene	9.9	0.50	ug/L	10	ND	99	70-130		08/21/23
trans-1,3-Dichloropropene	9.3	0.50	ug/L	10	ND	93	70-130		08/21/23
Trichloroethylene (TCE)	9.4	0.50	ug/L	10	ND	94	70-130		08/21/23
Trichlorofluoromethane	9.4	5.0	ug/L	10	ND	94	70-130		08/21/23
Vinyl Chloride	9.8	0.50	ug/L	10	ND	98	70-130		08/21/23
Surrogate: 1,2-Dichlorobenzene-d4	41			50		82	70-130		08/21/23
Surrogate: Bromofluorobenzene	43			50		87	70-130		08/21/23

## Blank Spike Dup (AGH1481-BSD1)

1,1,1-Trichloroethane	9.2	0.50	ug/L	10	ND	92	70-130	3	30	08/21/23
1,1,2,2-Tetrachloroethane	9.2	0.50	ug/L	10	ND	92	70-130	0	30	08/21/23
1,1,2-Trichloro-1,2,2-trifluoroethane	9.5	10	ug/L	10	ND	95	70-130	2	30	08/21/23
1,1,2-Trichloroethane	9.0	0.50	ug/L	10	ND	90	70-130	3	30	08/21/23
1,1-Dichloroethane	9.3	0.50	ug/L	10	ND	93	70-130	3	30	08/21/23
1,1-Dichloroethene	9.6	0.50	ug/L	10	ND	96	70-130	3	30	08/21/23
1,2,4-Trichlorobenzene	9.1	0.50	ug/L	10	ND	91	70-130	4	30	08/21/23
1,2-Dichlorobenzene	8.9	0.50	ug/L	10	ND	89	70-130	2	30	08/21/23
1,2-Dichloroethane	9.1	0.50	ug/L	10	ND	91	70-130	4	30	08/21/23
1,2-Dichloropropane	9.2	0.50	ug/L	10	ND	92	70-130	4	30	08/21/23
1,4-Dichlorobenzene	9.0	0.50	ug/L	10	ND	90	70-130	3	30	08/21/23
Benzene	9.2	0.50	ug/L	10	ND	92	70-130	3	30	08/21/23
Carbon Tetrachloride	9.1	0.50	ug/L	10	ND	91	70-130	3	30	08/21/23
Chlorobenzene	9.2	0.50	ug/L	10	ND	92	70-130	3	30	08/21/23
cis-1,2-Dichloroethene	8.9	0.50	ug/L	10	ND	89	70-130	4	30	08/21/23
cis-1,3-Dichloropropene	9.1	0.50	ug/L	10	ND	91	70-130	3	30	08/21/23
Dichloromethane	9.8	0.50	ug/L	10	ND	98	70-130	5	30	08/21/23
Ethylbenzene	9.2	0.50	ug/L	10	ND	92	70-130	3	30	08/21/23

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

AGH2460 FINAL 08292023 1404



AGH2460

General Non-EDT

## BSK Associates Laboratory Fresno

City of lone #25573/54  
Project: R5-1993-0240-002

## Organics Quality Control Report

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD Limit	Date Analyzed	Qual
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## EPA 524.2 - Quality Control

Batch: AGH1481

Prepared: 8/21/2023

Prep Method: EPA 524.2

Analyst: CMF

## Blank Spike Dup (AGH1481-BSD1)

m,p-Xylenes	19	0.50	ug/L	20	ND	95	70-130	3	30	08/21/23
Methyl-t-butyl ether	18	0.50	ug/L	20	ND	90	70-130	2	30	08/21/23
o-Xylene	9.3	0.50	ug/L	10	ND	93	70-130	3	30	08/21/23
Styrene	9.4	0.50	ug/L	10	ND	94	70-130	3	30	08/21/23
Tetrachloroethene (PCE)	9.2	0.50	ug/L	10	ND	92	70-130	2	30	08/21/23
Toluene	9.1	0.50	ug/L	10	ND	91	70-130	3	30	08/21/23
trans-1,2-Dichloroethene	9.5	0.50	ug/L	10	ND	95	70-130	4	30	08/21/23
trans-1,3-Dichloropropene	9.1	0.50	ug/L	10	ND	91	70-130	3	30	08/21/23
Trichloroethene (TCE)	9.1	0.50	ug/L	10	ND	91	70-130	3	30	08/21/23
Trichlorofluoromethane	9.2	5.0	ug/L	10	ND	92	70-130	3	30	08/21/23
Vinyl Chloride	9.5	0.50	ug/L	10	ND	95	70-130	4	30	08/21/23
Surrogate: 1,2-Dichlorobenzene-d4	41			50		82	70-130			08/21/23
Surrogate: Bromofluorobenzene	43			50		86	70-130			08/21/23



City of Ione  
1 East Main Street  
Ione, CA 95640

Account# 00-0025573  
Account Manager: Lisa Rubin  
Submitted By:  
Ranch: R5-1993-0240-002

Received: 08/15/2023 10:20  
Reported: 08/29/2023 11:09

### Samples in this Report

Lab ID	Sample	Matrix	Sampled By	Crop	Date Sampled
23H1310-01	CO MW-1	Monitoring Well	Antonio Del-Tech		8/14/2023 10:32
23H1310-02	CO MW-2	Monitoring Well	Antonio Del-Tech		8/14/2023 10:01
23H1310-03	CO MW-3	Monitoring Well	antonio Del-Tech		8/14/2023 9:22

Default Cooler      Temperature on Receipt °C: 8.8  
Containers Intact  
COC/Labels Agree  
Received On Ice

A handwritten signature in black ink that reads "Scott M. Friedland".

Laboratory Director/Technical Manager

ELAP Certification #1595  
A2LA Certification #6440.02

The results in this report apply to the samples as received and were analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. Dellavalle Laboratory, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



AGH2022

Bacti Testing

23H1310 - R5-1993-0240-002

## Certificate of Analysis

City of lone #25573/54  
Project: R5-1993-0240-002

Sample ID: AGH2022-01

Sampled By: Antonio - Del Tech

Sample Description: 23H1310-01 // CO MW-1

Sample Date - Time: 08/14/2023 - 10:32

Matrix: Water

Sample Type: Routine

BSK Associates Laboratory Fresno  
Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
<b>Coliform by 3x5 MTF</b>								
Total Coliform	SM 9221B	<1.8	1.8	MPN/100 mL	AGH1063	08/15/23 14:37	08/15/23 14:37	HT1.0



AGH2022

Bacti Testing

23H1310 - R5-1993-0240-002

## Certificate of Analysis

Sample ID: AGH2022-02

Sampled By: Antonio - Del Tech

Sample Description: 23H1310-02 // CO MW-2

City of lone #25573/54  
Project: R5-1993-0240-002

Sample Date - Time: 08/14/2023 - 10:01

Matrix: Water

Sample Type: Routine

BSK Associates Laboratory Fresno  
Microbiology

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
<b><u>Coliform by 3x5 MTF</u></b>								
Total Coliform	SM 9221B	<1.8	1.8	MPN/100 mL	AGH1063	08/15/23 14:37	08/15/23 14:37	HT1.0

**AGH2022****Bacti Testing**

23H1310 - R5-1993-0240-002

**Certificate of Analysis**City of lone #25573/54  
Project: R5-1993-0240-002**Sample ID:** AGH2022-03**Sampled By:** Antonio - Del Tech**Sample Description:** 23H1310-03 // CO MW-3**Sample Date - Time:** 08/14/2023 - 09:22**Matrix:** Water**Sample Type:** Routine**BSK Associates Laboratory Fresno**  
**Microbiology**

Analyte	Method	Result	RL	Units	Batch	Prepared	Analyzed	Qual
<b><u>Coliform by 3x5 MTF</u></b>								
Total Coliform	SM 9221B	2	1.8	MPN/100 mL	AGH1063	08/15/23 14:37	08/15/23 14:37	HT1.0



08/14/23 14:08

23H1310

## DELLAVALLE LABORATORY, INC.

1910 W. McKinley Avenue, Suite 110 • Fresno, CA 93728

www.dellavallelab.com 559 233-6129 • 800 228-9896 • Fax 559 268-8174

Purchase Order No	25573	54	No. Samples: 3	No of Bottles: 3
Bill To:	Acct #	Cons #	<b>Water Type:</b> <input type="checkbox"/> Drinking Water <input type="checkbox"/> Wastewater <input type="checkbox"/> Ag Water <input type="checkbox"/> Groundwater <input checked="" type="checkbox"/> Monitoring Well	
Results Need By			Other: _____	
Name:	City of Ione		<b>Analysis and Bottles Required: (Please indicate Analysis)</b>	
Billing Address:	1 East Main Street		<b>Total Coliform, MPN (3x5 MTF; SM 9221B)</b>	
City: Ione	State: CA	Zip: 95640	<b>No E. coli</b>	
Telephone:	209-274-2412			
Cell:				
Email:	twaklee@ione-ca.com		(1-100 mL Sterile Plastic w/Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ) Green bsk per site	
COPY TO:	agedney@ione-ca.com			
	jdoersen@ione-ca.com		Quarterly	
REQUESTED BY:	Todd Waklee		<input type="checkbox"/> Co. Health Dept	
PROJECT:	R5-1993-0240-002		<input type="checkbox"/> RWQCB <input checked="" type="checkbox"/> Copy of Chain	
Site:	Castle Oak Golf Course		<input type="checkbox"/> State Forms <input checked="" type="checkbox"/> QA/QC Documents	

Sampled By:

Antonia Ione-Tech

## Description of Samples

	Date Sampled	Time Sampled	Rec'd Temp °C	Field EC
1 CO MW-1	8/14/23	1032	5.8	
2 CO MW-2	8/14/23	1001	0.4	
3 CO MW-3	8/14/23	922	6.4	
4				

## CHAIN OF CUSTODY

Carrier	Signature	Company	Received Date/Time	Relinquished Date/Time
First	<i>Abby L. Rubin</i>	DPL-Tech	8/14/23 3:00	8/14/23 1:00
Second	<i>Abby L. Rubin</i>	DPL	8/14/23 7:00	8/15/23 10:20
Third				
Fourth				

I guarantee that as the client, or on behalf of client named, I have the authority to contract the above requested services. Should it be found that I do not have such authority, I agree to be personally liable for all costs and, if there should be action against me for this breach, reasonable attorneys' fees. It is understood that payment is expected to be cash with samples unless terms have been previously arranged. Terms are net 30 days, overdue accounts will be charged a liquidated damage fee of 2% per month (annually 24%) or \$5 00 per month whichever is greater. If payment is not made when due and a legitimate dispute exists concerning the product or services of Dellavalle Laboratory, Inc., it will be submitted to mediation under the Rules and Procedures of Creative Alternative to Litigation, Inc. (cal). If the dispute is not resolved by mediation, then the dispute will be submitted to binding arbitration through cal under its Rules and Procedures. The parties will equally bear the costs of mediation/arbitration. If, however, the mediator declares that no legitimate dispute exists, then debtor will pay all mediation and arbitration costs, and in the event of arbitration, reasonable attorneys' fees of Dellavalle Laboratory.

Lisa will invoice

Signature

Sample received in cooler with ice (coolant)

 Yes  No



08/15/23 10:20

23H1310

<b>Shipping Information:</b> Shipped In <input type="checkbox"/> Picked-Up <input checked="" type="checkbox"/> Walk In <input type="checkbox"/> DLI Sampler <input type="checkbox"/> Other <input type="checkbox"/>																																																																																																																																																																																																									
<b>Container:</b> Ice Chest <input checked="" type="checkbox"/> Box <input type="checkbox"/> None <input type="checkbox"/>					<b>Refrigerant:</b> Wet Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/>																																																																																																																																																																																																				
<b>Samples Preserved with HNO<sub>3</sub> or H<sub>2</sub>SO<sub>4</sub> were:</b> <input type="checkbox"/> Received Preserved <input type="checkbox"/> Preserved Upon Receipt at Laboratory																																																																																																																																																																																																									
Type of Container(s) Received	Sample Number																																																																																																																																																																																																								
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<b>Sample Containers for Internal (DLI) Use</b> (Containers that go into the Lab)																																																																																																																																																																																																									
Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)																																																																																																																																																																																																								
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	Other:																																																																																																																																																																																																								
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Plastics	100 mL sterile plastic Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)	1	1	1	1	1	1	1	1	1																																																																																																																																																																																															
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VOA Vials	1 L HNO <sub>3</sub> (Red)																																																																																																																																																																																																								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA (EPA531)																																																																																																																																																																																																								
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (EPA547)																																																																																																																																																																																																								
	40mL AG VOA unpreserved (White) (Set of 3)																																																																																																																																																																																																								
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	40mL VOA, H <sub>3</sub> PO <sub>4</sub> (Set of 3)																																																																																																																																																																																																								
	40 mL VOA, HCl (Blue) (Set of 3)																																																																																																																																																																																																								
Glass	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)										250 mL AG unpreserved (White)										250 mL AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										250 mL AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> + MCAA										500 mL glass unpreserved (White)										500 mL AG HCl (Blue)										Special	1 L AG unpreserved (White)										1 L AG H <sub>2</sub> SO <sub>4</sub> (Yellow)										1 L AG Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green)										1 L AG HCl (Blue)										Cr <sup>6+</sup> - 50mL Plastic w/Borate/HCO <sub>3</sub> /CO <sub>3</sub>										Cyanide - 500 mL NaOH										Asbestos - 1L P wrapped in foil (Set of 2)										Sulfide - 1 L AG or P NaOH + ZnAc										Chlorite/Bromate - 250 mL AG with EDA										HAA5 - 250mL AG Ammonium Chlorite										DO KIT										Other:										Other:									
	40 mL VOA, Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (Green) (Set of 3)																																																																																																																																																																																																								
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# SUBCONTRACT



08/15/23 10:20

23H1310

**Sending Laboratory:**

Dellavalle Laboratory Inc.  
1910 McKinley, Ste. 110  
Fresno, CA 93728-1298  
Phone: (559) 233-6129  
Fax: (559) 268-8174  
  
Attn: Kaitlynn Shaw  
dataentry@dellavallelab.com

After Hours Contact:  
Susan Villagran  
559-530-1346  
Martin James  
559-940-2024  
  
PO# 58803

**Subcontracted Laboratory:**

BSK & Associates - Stanislaus  
687 N. Laverne  
Fresno, CA 93727  
Phone: (559) 497-2888  
Fax: 559 485-6935

Turnaround: Standard  Rush   
State Forms: Yes  No  Sys#       

**Work Order: 23H1310****Project: R5-1993-0240-002****Analysis****Sample ID: 23H1310-01 Monitoring Well****Sampled: 8/14/2023 10:32AM**

Client Sample Name: CO MW-1

**Sampled By: Antonio Del-Tech****Comments**

Coli 3x5 Total Coli:SO

*Containers Supplied:***Sample ID: 23H1310-02 Monitoring Well****Sampled: 8/14/2023 10:01AM**

Client Sample Name: CO MW-2

**Sampled By: Antonio Del-Tech****Comments**

Coli 3x5 Total Coli:SO

*Containers Supplied:***Sample ID: 23H1310-03 Monitoring Well****Sampled: 8/14/2023 9:22AM**

Client Sample Name: CO MW-3

**Sampled By: antonio Del-Tech****Comments**

Coli 3x5 Total Coli:SO

*Containers Supplied:**OK to run out of hold time*

Released By

Date

Received By

Date

Released By

Date

Received By

Date

**End of Report**