

# Natural Soda LLC 2021 Project Status Report & Annual Plan of Development January 2022

Please note CONFIDENTIAL data sections of this document

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## **1.0 Introduction and Project Summary**

This 2021 Project Status Report and Annual Plan of Development is submitted to fulfill the requirements of BLM sodium leases, COC-00118326, COC-00118327, COC-0119986, and COC-37474 as stated in Federal Regulations 43 CFR, Subpart 3591 and 3592 and the Project Record of Decision dated January 20, 1987. This report is also submitted to the Colorado Division of Reclamation Mining and Safety (DRMS) to meet the requirements for an Annual Report per State permit number M-1983-194, and in part to meet the requirements contained in the EPA UIC Class III Area Permits: CO30358-00000 and CO32169-00000.

This report summarizes the Natural Soda LLC (NS) 2021 process operations, production activities, reclamation status, geotechnical and environmental monitoring results, as well as the status of surface facilities and wells. Proposed operations for 2022 will be described in this report, including drilling new production wells (17H-IR-E & 17H-1V), and one subsurface subsidence well (17H-1V-SSMW). In 2022, Plugging and Abandonment (P&A) operations will be undertaken. Groundwater monitor wells (GMWs) and water supply wells (WSWs) will be maintained.

## 2.0 Description of Project Area

### 2.1 Location and Regional Setting

The four NS federal sodium leases are located in the Piceance Creek Basin in Rio Blanco County in northwestern Colorado (Figure 1 and Figure 2). The sodium leases are located primarily between the Yellow Creek and Piceance Creek drainages, approximately 41 miles from Meeker, Colorado and 53 miles from Rifle, Colorado. The climate is semi-arid with annual precipitation averaging 12-14 inches. Precipitation generally occurs as snow from November to March and as rain during the remainder of the year. The vegetation is predominantly pinyon pine, sagebrush, Utah juniper, western wheatgrass, and needle-and-thread grass. The total area contained within the four sodium leases is 8,379 acres more or less. The principal area of operation is located in and around Section 26, T1S, R98W, 6<sup>th</sup> Principal Meridian. Figure 1 shows the NS leases and regional setting. Figure 2 shows sodium leases within the Piceance Creek Basin. Figure 3 and Figure 4 show the NS well locations and proposed well locations.





Figure 1: Natural Soda LLC Vicinity Map







Figure 2: Sodium Leases Map



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Figure 3: Plant and Well Location Map, Section 26 Detail.



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Figure 4: Plant and Well Location Map, Expanded View.



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### 2.2 Leasehold Status

The original four sodium leases were renewed by the BLM, in 2021 for a period of ten years. Annual rental and royalty payments have been submitted to the Mineral Management Service. The NS leases comprise approximately 8,379 acres. NS will be renewing the leases again in 2031 for an additional period of ten years.

## 3.0 Project Status

## 3.1 2021 Project Activities (Confidential)

### (See Figure 3 & Figure 4: Plant and Well Location Maps)

In 2021 NS produced 257,776 tons of sodium bicarbonate. This product was produced from the 12H, 13H, 14H, 15H, 16H, and 17H mining intervals. Routine boil outs were performed in 2021. During a 3-day outage in May, the original plant barren liquor tank was replaced with a new, larger stainless steel tank. Various short shutdowns were required for routine maintenance, equipment repair and/or replacement throughout the year.

### 3.1.1 Items of Significance (Confidential)

- NS renewed the four BLM sodium leases for another ten years.
- Four Groundwater Monitoring Wells (GMW) were drilled and completed to strengthen the continuous monitoring of groundwater aquifers within the NS leases; AG-2, BG-11, BG-10, and the PA-1.
- The 15H-IR-E production well 7.0-inch steel liner was shortened approximately 500 feet by way of a successful pullback and perforation operations occurred in March.
- Plug & Abandonment (P&A) operations occurred during 2021 to reduce redundancy and aged wells from the NS ground water monitoring program. The GMWs P&A'ed included the BG-5, BG-9, EX-2, MMC-IRI-9, and the MMC-IRI-8 wells.



#### Mining Mining Mining Mining Mining Mining Mining Interval Interval Interval Interval Interval Interval Interval Tons Mined in DVPW1 12H 13H 14H 15H 16H 17H 2021 31,570 30,012 53,401 51,619 80,341 10,834 0 Total **Tons Mined** 278,540 229,456 319,696 277,273 194,048 128,026 1,349 as of Dec 31, 2021

Table 1 Mining Interval Annual and Lifetime Production (Confidential)

3.1.2 Mining Interval Bicarbonate Production (Confidential)

NS made an adjustment to the lifetime mining intervals total tonnage allocations in late January and early February 2021. Based on updated modeling of the mining intervals, the formulas used in 2020 were found to over report the tons removed from the 15H and 16H mining intervals and underreported the mined tons from the 12H, 13H, 14H, and 17H mining interval totals. DVPW1 mining interval was not affected by these adjustments. NS made additions and subtractions (See Table 2) from the lifetime tons mined from the mining intervals to rectify this imbalance. Following these adjustments the total mining intervals lifetime tons were reset as reflected in Table 2 below.

### Table 2: Cavity Tonnage Mined Adjustment January/February 2021 (Confidential)

	Mining Interval 12H	Mining Interval 13H	Mining Interval 14H	Mining Interval 15H	Mining Interval 16H	Mining Interval 17H	Mining Interval DVPW1	Total
Total Tons Reported End of 2020	246,116	199,224	265,544	227,240	114,936	116,202	1,349	1,170,611
Tons Mined Jan 2021	3,004	1,065	3,519	4,687	5,260	4,462	0	21,997
Mined Interval Adjustment of Total Tons Feb 2021	855	220	751	-1,586	-1,230	990	0	0
Reset: Total Tons Mined as of Feb. 1, 2021	249,975	200,509	269,814	230,341	118,966	121,654	1,349	1,192,608



### 3.1.3 2021 Monthly Bicarbonate Summary (Confidential)

Table 3: Monthly Production, Sales, and Inventory Summary in Tons (Confidential)

Month	Beginning Inventory	Production	Sales	Ending Inventory
January	7,197	21,997	21,990	7,205
February	February 7,205		18,540	7,307
March	7,307	22,650	23,375	6,402
April	6,402	20,917	22,970	4,349
Мау	4,349	18,873	19,352	3,870
June	3,870	20,749	22,317	2,374
July	2,374	22,183	20,418	4,139
August	4,139	22,448	22,733	3,854
September	3,854	21,921	20,995	4,776
October	4,776	22,422	22,422 21,946	
November	5,252	22,377	21,422	6,207
December	6,207	22,761	23,069	5,910
TOTALS		257,776	259,127	



### 3.1.4 Regulatory Review (Confidential)

NS submitted routine Sundry Notices, monthly, quarterly, and annual reports to the appropriate agencies. The following summarizes other regulatory related activities:

### Bureau of Land Management (BLM)

- NS submitted the four lease renewal applications and fee's in December 2020, BLM approved and renewed the four leases for another 10 years in July 2021.
- An Application to Drill (APD) the BG-11 GMW (form 3160-3) was submitted to the BLM on January 15<sup>th</sup>, 2021. BLM approved the APD with Conditions of Approval on February 5<sup>th</sup> 2021. The BG-11 GMW was drilled and completed March 5th 2021. NS submitted the completion report and required documentation for the BLM on April 13, 2021.
- NS requested a Winter Range Variance with the BLM to P&A the BG-5, P&A BG-9, clean out WSW-3 & WSW-4, and to drill a new GMW BG-11 in late January and early February 2021. The variance was approved on January 19<sup>th</sup> by the BLM.
- The required BLM completion sundry notice documents were submitted for the BG-5 (12H-C) P&A operations on March 11, 2021.
- The required BLM completion sundry notice documents were submitted for the BG-9 (DS-5) P&A operations on March 23, 2021.
- NS reported an Undesirable Event to the BLM in March 2021, the event was due to a NS contracted truck driver having a medical issue causing him/her to drive off the road requiring the driver to be transported to a hospital. There was no spill of product or hazardous materials related to this incident.
- NS notified the BLM of pullback operations to be performed on the 15H-IR-E production well on February 22, 2021. The pullback operation was completed in March 2021. NS submitted the BLM 3160-5 completion form and documentation for the successful completion of the 15H-IR-E pullback operation April 7, 2021.
- On March 12, 2021 the BLM approved, with Conditions of Approval (COA), the 2020 APD application for three new upgradient groundwater monitor wells (AG-2, BG-10, and PA-1). On April 16, 2021, NS submitted required documents to complete the BLM COA requirements. The three new GMWs were drilled late summer 2021, the BLM required completion reports and documents were submitted to the BLM October 11<sup>th</sup> 2021.
- Notice of Intent to P&A the MMC-IRI-8, MMC-IRI-9 and EX-2 GMWs was submitted to BLM July 8<sup>th</sup>, 2021. NS P&A'ed the three wells during the summer of 2021. BLM required completion reports and documents were submitted to the BLM October 25<sup>th</sup>, 2021.

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- NS requested a Surety Bond Release and Replacement, for the purpose of changing bonding companies, on September 23, 2021. BLM approved the Surety Bond Release and Replacement on October 1, 2021.
- On December 15<sup>th</sup> 2021 NS submitted required COA documents for drilling the 17H-1V, 17H-IR-E production wells, and the 17H-1V-subsidence monitoring well (SSMW).

### United States Environmental Protection Agency (EPA)

- NS notified EPA February 2021 of the planned 15H-IR-E 7" liner pullback operation, the pullback was completed in March 2021 and NS notified the EPA of the successful operation April 2021.
- The 16H-1V, successful removal of temporary liner, and replacement with permanent 7-inch steel liner. Notification was sent to the EPA in April 2021.
- NS submitted a request for the addition of the 17H-IR-E production well to the UIC area Permit CO30358-00000, and for an extension to the 17H-1V permit deadline set to expire January 31, 2022. July 2, 2021 the EPA approved the addition of the 17H-IR-E production well to the UIC area permit. The 17H-1V permit deadline was extended to January 31, 2023.
- NS conducted routine, EPA mandated, MIT Part 1 pressure testing and/or Part 2 temperature logging in the following injection wells on the indicated dates, no anomalies were detected during any testing or logging and NS submitted all required documentation to the EPA.
  - o 16H-IR-E MIT P2 (initial): February 8, 2021
  - o 15H-I MIT P1 (5-year): June 16, 2021
  - o 15H-I MIT P2 (5-year): July 12-16, 2021
  - o DVPW MIT P1 (10-year): June 17, 2021
- September 23, 2021 NS requested from the EPA a FR Surety Bond Release and Replacement to change bonding companies. EPA approved this request on October 13, 2021.



### Colorado Division of Reclamation, Mining and Safety (DRMS)

- NS submitted Technical Revision (TR) #45 to drill and complete the BG-11 GMW on January 15, 2021. On January 26<sup>th</sup> DRMS requested additional information prior to approval of the TR. This information was provided by NS and the DRMS approved TR #45 on February 1, 2021.
- NS submitted required annual fees and reports for DRMS Permits M-1983-194 and M-1999-051.
- On March 2, 2021, DRMS notified NS that the 15H-IR-E pullback operation would require a TR. Following communication with NS the DRMS determined that a TR would not be necessary for pullback operations.
- The DRMS did not undertake a 1<sup>st</sup> quarter site visit due to DRMS protocols relating to Covid-19. Rather the DRMS inspected NS historic records during March 2021. The DRMS identified and requested clarifications or updates of documents in the DRMS online database. NS submitted clarification comments and documents allowing the DRMS to correct their database.
- NS submitted TR #46 for pad construction, drilling, and completion of three new upgradient water monitoring wells (AG-1, BG-10 and PA-1) on April 15, 2021. TR #46 was approved on April 23, 2021.
- The DRMS conducted a 2<sup>nd</sup> quarter on location inspection of NS on June 28, 2021. No issues or concerns were noted in this visit. The DRMS also inspected and photographed many of the fully reclaimed pads, and other recent interim reclamation activities.
- On July 22, 2021, following the 2<sup>nd</sup> Qtr DRMS site visit, NS sent correspondence to the DRMS requesting acknowledgement of the successful reclamation of MMC-IRI-2 pad, Pad D, Pad G, and Pad E. Agency recognition of these successfully reclaimed areas will release NS from continued management responsibilities for these locations, with the understanding that the areas will remain as part of the NS Lease.
- NS requested a Surety Bond Release and Replacement, for the purpose of changing bonding companies, on September 23, 2021. DRMS approved the Surety Bond Release and Replacement on October 7, 2021.
- On November 3, 2021, NS sent correspondence to the DRMS regarding proposed Groundwater Sampling Modifications to be implemented in January 2022. The DRMS requested a TR submission for this action. NS submitted TR #47 to the DRMS on November 22, 2021. The DRMS approved TR #47 on December 7<sup>th</sup> 2021.
- The DRMS conducted a 4th quarter inspection of NS site on November 5, 2021. No problems or violations were noted during this inspection.



### Colorado Division of Water Resources (DWR)

- In May 2020 the Dam Safety Branch of the DWR inspected the Larson Dam #2. The Engineer noted two required maintenance and repair items at the time of the inspection: 1) grade the crest to a uniform elevation with drainage to be directed toward the upstream slope and 2) clear and excavate the spillway. NS undertook the required construction activities in October of 2021. The crest was graded to a uniform 3% slope to promote drainage toward the reservoir, the surface had gravel base added and compacted/rolled to resist erosion. A final layer of gravel was added and compacted for additional durability. The spillway was cleared of all debris as required and a trench was dug out to extend the spillway drainage area to a location that did not erode the adjacent hillside. The hillside next to the spillway was graded to prevent erosion and limit dirt, silt, or other debris from clogging the spillway in the future. A full report with detailed photos of the construction activities was provided to DWR.
- The BG-11 GMW was permitted with the DWR as required in 2021.
- The AG-2, BG-10, and PA-1 GMWs were permitted with the DWR as required in 2021.
- NS submitted the required MMC-IRI-8 GMW P&A report to the DWR in November 2021.

### Colorado Department of Public Health & Environment (CDPHE)

- NS applied to the CDPHE for a renewal on June 6<sup>th</sup> of the Storm Water Discharge (WQCD CDPA) Permit COG501736.
- In 2021 NS complied with all reporting requirements for storm water and environmental emissions.

### **Rio Blanco County (RBC)**

- RBC did not require amendments to the existing Special Use Permit (SUP) 12-04 for the new GMWs drilled, P&A operations, or cleanout operations in 2021. Email notification of operations was sent to RBC in January and June with scheduled work and this sufficed for the SUP update.
- On December 6<sup>th</sup> 2021 NS submitted a Building Permit Application to RBC for a steel covered structure on a 360 square foot concrete slab located in the receiving area of the plant. On December 7<sup>th</sup> permit # BIND-0006-21 was issued for the project.
- NS requested a building permit in 2021 from RBC for the addition of an arched roof for the CONEX building structure (structure is identified as "MRO") outside the plant warehouse that is used to store equipment. RBC approved the request and issued building permit # BIND-0001-22.



## 3.2 Proposed 2022 Activities and Schedule (Confidential)

### 3.2.1 Processing (Confidential)

NS anticipates Sodium Bicarbonate production of approximately 245,000 tons in 2022. NS has planned capital projects to replace the #4 crystallizer in Train #1, as well as the installation of a new dryer cyclone in Train #2. Additionally, brief shut-downs for periodic boil-outs and routine maintenance activities will occur.

### 3.2.2 Well field (Confidential)

- NS anticipates limited production from the DVPW in 2022.
- NS will drill two new production wells to augment the 17H mining interval during the summer of 2022. These wells have been permitted and approved with all agencies. The 17H-1V slant production well will be drilled to intersect the existing 17H-I & R mining interval. The 17H-IR-E production well will be drilled to the east of the existing 17H-I & R production wells, with the goal of intersecting the 17H mining interval near the end of the 17H-I production liner.
- NS will drill a new subsurface subsidence monitor well on existing 16H-1V pad location during the summer of 2022. The 17H-1V-SSMW monitor well will be used to monitor for potential subsurface subsidence near the existing 17H and planned 18H mining intervals.
- NS plans to Plug and Abandon (P&A) the BG-1 GMW, DS-2 GMW, and the 90-1 (A-Groove) GMWs during the summer of 2022. These wells are aged and/or redundant, the continued use of these wells are not needed to support ground water monitoring.
- NS plans to P&A production well 16H-R(I) in the summer of 2022.

### 3.2.3 EPA Notification – Schedule of Planned Mechanical Integrity Test (MIT) (Confidential)

- Per EPA UIC Permit C030358-00000 requirements, the following routine injection well (initial, 5-year, or 10-year) MIT Part 1 pressure testing and MIT Part 2 temperature logging is planned for 2022 or the first quarter of 2023.
  - 12H-I (10-year): MIT P1 testing is planned for the first quarter of 2022
  - 16H-I (5-year): MIT P1 and P2 testing/logging may occur during the third and/or fourth quarters of 2022.
  - 17H-IR-E (initial): MIT P1 will be conducted, as appropriate, during well construction in 2022.

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- 17H-IR-E: MIT P2 baseline temp log will be run, as appropriate, during well construction, MIT P2 initial logs are required 60-90 days post EPA ATI.
- 17H-1V (initial): MIT Part 1 pressure test will be conducted, as appropriate, during well construction in 2022.
- 17H-1V MIT P2 baseline temp log will be run, as appropriate, during well construction, MIT P2 initial logs are required 60-90 days post EPA ATI.

## 3.2.4 EPA Notification – Schedule of Planned SSM Survey (Confidential)

• NS will next collect biennial surface subsidence monument surveys in 2023, in accordance with UIC Permit C030358-00000 requirements.

## 3.2.5 EPA Notification – Schedule of Planned SSMW Logging (GR/CCL) (Confidential)

- Per EPA UIC Permit C030358-00000 requirements; the following routine subsurface subsidence monitor well (SSMW) logging (GR/CCL) is planned for 2022 or the first quarter of 2023:
  - 17H-1V-SSMW initial GL/CCL logs should be collected, as appropriate, during well construction in 2022.
  - The 15H-SSMW CL/CCL logging target of 50% production (of the initial 15H mining interval) is not anticipated to occur until 2023. If production of 15H mining interval increases in 2022 and triggers the 15H-SSMW logging target, NS will log the well in 2022.



## 4.0 2021 Project Activities

## 4.1 On-Site Facilities and Process Description

### 4.1.1 General Arrangement

Figure 5 provides an overview of the process flow.

### 4.1.2 Lab Operation / Sanitation / ISO

In 2021, activities continued in the laboratory to provide analysis for process control, quality assurance, and regulatory requirements.

- Plant operators performed process control analyses.
- Chloride levels were monitored by both operations and laboratory personnel on all USP grades to ensure USP standards were met.
- The USP test for insoluble materials was conducted on a per lot basis by laboratory personnel and a filter test for insoluble materials was conducted on the dry product once per shift by operations.
- Pests were controlled with the use of two UV bug lights and rodent traps around the interior and exterior walls of the plant.
- GMP/ISO/Sanitation training was provided for all employees as required.
- A food safety audit for FSSC 22000 was conducted for which Natural Soda maintained GFSI certification.
- CDPHE, NSF, OMRI, Kosher, Halal, non-GMO, and ISO 9001 certifications were maintained.

### 4.1.3 Process, Utilities, Facilities

In 2021 NS undertook a capital project to replace the barren liquor tank. The barren tank replacement operation started May 2<sup>nd</sup>, and was completed and operational on May 6<sup>th</sup>. The product packaging facility was upgraded and upgrades to equipment and conveyers occurred between November 28<sup>th</sup> and December 9<sup>th</sup>. General maintenance and repairs of utilities, equipment and facilities were completed as needed during 2021.





Figure 5: General Flow Process



### 4.1.4 Wells Associated with the NS Project (Confidential)

The following well-field related activities occurred in 2021: Refer Figure 3 & Figure 4 Plant and Well Location Map.

- The 16H-1V slant production well was shut down briefly to remove and replace the temporary production liner. A permanent 7" steel liner and liner hanger system was installed during March of 2021.
- Cleanout operations occurred in January on the WSW-4 water supply well. Himes Drilling Company arrived on location the 25<sup>th</sup> of January, pulled the pump and tubing out of the well and began the air lifting process to clean out the well bore. Himes completed the clean out operations on January 29<sup>th</sup> with the reinstallation of the pump and tubing returning the water supply well to operational status.
- Cleanout operations occurred in February on the WSW-3 water supply well. Himes Drilling Company arrived on location the 15<sup>th</sup> of February, pulled the pump and tubing out of the well and began the air lifting process to clean out the well bore. Himes completed the clean out operations on February 18<sup>th</sup> with the reinstallation of the pump and tubing returning the water supply well to operational status.
- In December 2020, in coordination with BLM and DRMS, it was determined that the BG-9 (DS-5) should be P&A'ed. P&A operations were started and completed in February of 2021. The BG-9 casing was perforated and was cemented back to surface in multiple lifts to ensure a compete sealing of the well bore. The casing was cut off below surface, marked per agency requirements, and buried. Reclamation of the location was undertaken in spring of 2021.
- The BG-5 was noted to be experiencing water quality issues in November 2020. Following an investigation it was determined, in coordination with BLM and DRMS that the BG-5 well should be P&A'd. P&A operations were started and completed in February of 2021. The BG-5 casing was perforated and was cemented back to surface in multiple lifts to ensure a compete sealing of the well bore. The casing was cut off below surface, marked per agency requirements, and buried. Reclamation of the location was undertaken in spring of 2021.
- In coordination with the BLM and DRMS it was determined that new B-Groove Aquifer monitoring well (BG-11) would be drilled east of the BG-9 (DS-5) well on the 10-13 pad in 2021. NS completed the permitting process for the BG-11 GMW with drilling and completion operations started and completed during February 2021. The new BG-11 GMW began operation as a B-Groove Aquifer monitoring well in March 2021.
- NS P&A'ed three aging and redundant GMWs in the summer of 2021. The MMC-IRI-8 (Perched Aquifer) monitor well was P&A'ed in late August 2021. The MMC-IRI-9 was a hydrology well which was open to both the B-Groove and DS aquifers; this well was P&A'ed in late August 2021. The final well to be P&A'ed was the IRI-26-EX-2 GMW. IRI-26-EX-2 monitored only DS aquifer water levels at the time of P&A operations, the P&A operation was started in late August and completed early September 2021.

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- In June 2021 a new pad was built in the southwest NS lease area to accommodate three new Upgradient GMWs. These wells include the AG-2 (A-Groove Aquifer), BG-10 (B-Groove Aquifer), and the PA-1 (Perched Aquifer). Due to the expansion of the NS mining areas near the southern portion of the NS Lease, some of these older monitor wells became redundant. These new upgradient GMWs will provide continued upgradient groundwater monitoring. Himes Drilling Co. was contracted to drill these wells and D&A, Inc. managed the operations. Drilling operations for the BG-10 began on July 20<sup>th</sup> and were completed on August 3<sup>rd</sup>. AG-2 drilling began August 4<sup>th</sup> and was completed by August 12<sup>th</sup>. PA-1 well drilling began August 17<sup>th</sup>, and was completed on August 21<sup>st</sup>. D&A mobilized to the location August 30<sup>th</sup> and equipped all three wells with nitrogen lift pumps and associated equipment. NS began sampling operation in these wells during September of 2021. The Upgradient pad location underwent interim reclamation construction activities in October to reduce land disturbance and pad seeding was completed in December of 2021.
- Approximately 500 feet of 1-inch PVC drop tube (for water leveling monitoring) was installed in the 90-3 GMW in September of 2021 to reduce problems with water level equipment becoming entangled with the sample pump equipment.
- The DS-2 well sampling equipment and pump were removed and replaced with a new nitrogen lift pump (NLP) system in July 2021.
- The DS-10 well sampling equipment and pump were removed and replaced with a new nitrogen lift pump (NLP) system in October 2021.
- NS cleaned out the DS-2 (DS aquifer) and the 90-4 (A-Groove aquifer) GMW's in August 2021. All sampling equipment was removed prior to clean out operations. Himes Drilling Co. airlifted both wells for multiple days to clean the wellbores. The 90-4 was returned to service post clean out operations. The DS-2 was found to have continued water quality issues following the clean out operation and the decision was made to P&A this older redundant well in 2022.

The current status of all wells associated with the NS Project is indicated in Table 4: List and Status of Wells Associated with NS.

### 4.1.5 Other Activities

Continuous water level monitoring of proximal DS aquifer monitor wells, using fluid level indicators (pressure transducers), provided real time data for the management of active production mining interval operations. Throughout the year, injection and recovery rates were adjusted to maintain monitoring well water levels near target zones.

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## Table 4: List and Status of Wells Associated with NS

Well Name	Initial Well Type	Current Well Status	Section	Town- ship	Range	Latitude (NAD 27)	Longitude (NAD 27)	Initial TD, (MD, ft)	Current TD, (MD, ft)	Comments
3M-TDR	Subsidence Monitoring	Subsidence Monitoring	26	1S	98W	39.928794934	108.362551397	1820	1820	No Longer Monitoring
4A-5M	Hydrology/Subsidence Monitoring	Plugged and Abandoned	26	1S	98W	39.929813477	108.365383461	1830	0	P&A June 2012 Currently Operates as TDR Well
12H-I	Horizontal-Injection	Horizontal- Production	25	1S	98W	39.929304000	108.348621000	4189.0	4189	TVD TD=~1985'
12H-R	Horizontal-Recovery	Horizontal- Recovery	25	1S	98W	39.929598000	108.348538000	2623.0	2623	TVD TD=~2007'
12H-IR	Horizontal-Production (Inj/Rec)	Horizontal- Production	26	1S	98W	39.929667896	108.363801054	3464.7	3464.7	TVD TD=-1972'
13H-R(I)	Horizontal-Production (Inj/Rec)	Horizontal- Production	25	1S	98W	39.929583170	108.348684400	2549	2549	TVD TD=~2013'
13H-IR	Horizontal-Production (Inj/Rec)	Horizontal- Production	26	1S	98W	39.930014690	108.363712457	3423.7	3423.7	TVD TD=-1964'
14H-R(I)	Horizontal Production (Inj/Rec)	Horizontal- Production	25	1S	98W	39.930265288	108.349763798	2819	2819	TVD TD=~1983'
14H-1V	Slant Production (Inj/Rec)	Slant Production (Rec)	26	1S	98W	39.931733549	108.35641781	2095.5	2095.5	
15H-I	Horizontal Injection	Horizontal- Injection	27	1S	98W	39.927281590	108.370834800	5477	5477	TVD TD=~1877'
15H-R(I)	Horizontal Production (Inj/Rec)	Horizontal- Production	34	1S	98W	39.927050806	108.370714984	2698	2698	TVD TD=~1850'
15H-1V	Slant Production (Inj/Rec)	Slant Production (Rec)	26	1S	98W	39.92797980	108.36112812	2079.1	2079.1	
15H-IR-E	Horizontal Production (Inj/Rec)	Horizontal Production	25	1S	98W	39.92778393	108.34898748	4032.4	4032.4	
15H-SSMW	Subsurface Subsidence Monitoring	Subsurface Subsidence Monitoring	26	1S	98W	39.927297800	108.367304200	1760.5	1760.5	
16H-I	Horizontal Injection	Horizontal- Injection	34	1S	98W	39.926332533	108.371061443	5425	5425	TVD TD=~1910'
16H-R(I)	Horizontal Production (Inj/Rec)	Horizontal- Production	34	1S	98W	39.926848404	108.371348247	2451	2451	TVD TD=~1856'
16H-1V	Slant Production (Inj/Rec)	Slant Production (Rec)	35	1S	98W	39.925742470	108.363769248	2086	2086	TVD TD= ~1945'
16H-IR-E	Horizontal Production (Inj/Rec)	Horizontal Production	25	1S	98W	39.927419470	108.349138051	4025	4011	TVD TD= ~1959'
17H-I	Horizontal-Injection	Horizontal- Injection	34	1S	98W	39.925807900	108.370279100	5378.9	5378.9	TVD TD=-1911'
17H-R	Horizontal-Recovery	Horizontal- Recovery	34	1S	98W	39.926171184	108.370365216	2431.7	2431.7	TVD TD=-1872'
17H-SSMW	Subsurface Subsidence Monitoring	Subsurface Subsidence Monitoring	35	1S	98W	39.925620961	108.367424479	1731.0	1720.6	
89-1	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.934818008	108.359830288	1989	1570	
89-2	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.934771572	108.359655360	1409	1389	
89-3	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.934959857	108.359876003	400	390	Periodic sampling issues
90-1	Water Supply	Hydrology Monitoring Well	26	1S	98W	39.930942569	108.362786046	1451	1451	Converted to A-Grv MW August 2015
WSW-2 (2010-26-198- 2C)	Core Hole	Water Supply	26	1S	98W	39.932913043	108.357000636	1964	1402	Cored July 2010
WSW-3	Water Supply	Water Supply	26	1S	98W	39.940837450	108.361799400	1440	1440	Drilled August 2014
WSW-4	Water Supply	Water Supply	26	1S	98W	39.940358200	108.348198508	1437	1437	Drilled August 2014
90-3	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.927659529	108.363196386	1577	1556	
90-4	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.927654857	108.363040763	1392	1371	Cleaned out to TD August 2021
AG-1	Core Hole 2014-25-198-J	Hydrology Monitoring Well	25	1S	98W	39.929116963	108.348465043	2061	1487	Cemented up to groundwater monitoring well level
AG-2	Hydrology Monitoring	Hydrology Monitoring Well	27	1S	98W	39.927814	108.375312	1275	1275	Drilled & Completed August 2021
BG-1	Hydrology Monitoring	Hydrology Monitoring	35	1S	98W	39.92620970	108.36612260	1911	1552	
BG-4	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.929278506	108.356901248	1999.5	1603	
BG-5 (12H-C)	Core Hole	Hydrology & Subsidence Monitoring Well	26	1S	98W	39.929138572	108.351120681	3005	1645	P&A'ed February 2021
BG-6 (2010- 26-198-6C)	Core Hole	Hydrology Subsidence Monitoring Well	26	1S	98W	39.931301816	108.354997679	1978	1577	



## Table 4: List and Status of Wells Associated with NS (continued)

Well Name	Initial Well Type	Current Well Status	Section	Town- ship	Range	Latitude (NAD 27)	Longitude (NAD 27)	Initial TD, (MD, ft)	Current TD, (MD, ft)	Comments
BG-7	Core Hole 2014-25-198-K	Hydrology Monitoring Well	25	1S	98W	39.928987896	108.432905289	1967	1593.1	Cemented up to groundwater monitoring well level
BG-9 (DS-5)	Core Hole	Hydrology Subsidence Monitoring Well	26	1S	98W	39.930335423	108.351403951	1973	1902	P&A'ed February 2021
BG-10	Hydrology Monitoring	Hydrology Monitoring Well	27	1S	98W	39.927930	108.375072	1461	1461	Drilled & Completed August 2021
BG-11	Hydrology Monitoring	Hydrology Monitoring Well	25	1S	98W	39.929399	108.348929	1685.5	1685.5	Drilled & Completed February 2021
DS-2 (97 DS2)	Hydrology Monitoring	Hydrology Monitoring Well	35	1S	98W	39.926217942	108.366158755	1854	1829	Cleaned out to TD August 2021
DS-3	Hydrology Monitoring	Hydrology Monitoring Well	26	1S	98W	39.929529067	108.360329121	2100	1874.5	Sample pump replaced with NLP in 2018
DVPW-1	Vertical Production	Vertical Production	26	1S	98W	39.929100000	108.357500000	2904.6	2904.6	Limited Production
DS-6	Core Hole	Hydrology Monitoring Well	35	1S	98W	39.926942000	108.362195000	2962.6	1870	Cemented up to groundwater monitoring well level
DS-7	Core Hole	Hydrology Subsidence Monitoring Well	26	1S	98W	39.932036903	108.362826421	1980	1875	Cemented up to groundwater monitoring well level
DS-8	Core Hole 2014-26-198-I	Hydrology Monitoring Well	26	1S	98W	39.932738295	108.355594975	2000	1881.7	Cemented up to groundwater monitoring well level
DS-9	Core Hole 2014-25-198-M	Hydrology Monitoring Well	25	1S	98W	39.927447860	108.340064803	1916.5	1842	Cemented up to groundwater monitoring well level
DS-10	Hydrology Subsidence Monitoring Well	Hydrology Subsidence Monitoring Well	35	1S	98W	39.92659671	108.35590409	1995	1925	
EX-2	Core Hole	Hydrology Monitoring Well	26	1S	98W	39.934857517	108.359996032	1980	1897	P&A'ed September 2021
MMC-IRI-1	Core Hole	Hydrology Monitoring Well	26	1S	98W	39.927580161	108.363115621	2981	397	Cemented up to groundwater monitoring well level
MMC-IRI-4	Core Hole	Hydrology Monitoring Well	23	1S	98W	39.942950000	108.355333333	3001	1411	Cemented up to groundwater monitoring well level
MMC-IRI-5	Core Hole	Hydrology Monitoring Well	23	1S	98W	39.943578031	108.355623039	2983	378	
MMC-IRI-6	Core Hole	Hydrology Monitoring Well	23	1S	98W	39.943733333	108.355316667	1878	1394	
MMC-IRI-7	Core Hole	Hydrology Monitoring Well	23	1S	98W	39.943516667	108.356033333	1880	1395	
MMC-IRI-8	Core Hole	Hydrology Monitoring Well	23	1S	98W	39.943450000	108.355833333	1880	489	P&A'ed August 2021
MMC-IRI-9	Core Hole	Hydrology Monitoring Well	34	1S	98W	39.920759982	108.383119038	2864	1710	P&A'ed August 2021
MMC-IRI-11	Core Hole	Hydrology Monitoring Well	25	1S	98W	39.931608050	108.336010982	2963	1550	Cemented up to groundwater monitoring well level
MWA-2	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.952825612	108.412403600	1200	1200	Rock School Well
MWB-2	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.953067253	108.412206500	1398	1398	Rock School Well
MWD-1	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.953094778	108.411828300	1731	1731	Rock School Well
MWD-2	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.952635000	108.412036900	1703	1703	Rock School Well
MWU-2	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.933370000	108.350210000	687	687	Rock School Well
O-GMW-A	Core Hole 2014-27-198-O	Hydrology Monitoring Well (Inactive)	27	1S	98W	39.934483259	108.383446479	1786	1294	Cemented up to groundwater monitoring well level
PA-1	Hydrology Monitoring	Hydrology Monitoring Well	27	1S	98W	39.927639	108.375175	435	435	Drilled & Completed August 2021
TH75-6A	Hydrology Monitoring	Hydrology Monitoring Well	14	1S	98W	39.964492958	108.353578053	1260	1260	USGS Well
TH75-6B	Hydrology Monitoring	Hydrology Monitoring Well	14	1S	98W	39.964807700	108.353045189	1755	1755	USGS Well
TH75-11A	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.952321958	108.409207410	1080	1080	USGS Well
TH75-11B	Hydrology Monitoring	Hydrology Monitoring Well	20	1S	98W	39.953286260	108.409494700	1498	1498	USGS Well
RS-96-20-1	Hydrology Monitoring	Inactive	20	1S	98W	39.95037676	108.41282630	2598	1717	OH Packer at 1295' Rock School Well





### 4.2 New Findings or Developments (Confidential)

- The BG-5, BG-9, EX-2, MMC-IRI-8, and MMC-IRI-9 GMWs were P&A'd in 2021.
- The WSW-4 and WSW-3 underwent clean out operations in 2021 to restore water supply capabilities.
- Four new Upgradient GMWs were drilled in 2021 to augment the NS aquifer sampling operations; AG-2 GMW, BG-10 GMW, BG-11 GMW, and the PA-1 GMWs.
- NS submitted a modification of the groundwater sampling plan within the NS lease. This modified plan was competed and approved in coordination with DRMS (TR #47), BLM, and EPA. The updates will add groundwater sampling and monitoring components for NS's newly constructed PA-1, AG-2, and BG-10 upgradient groundwater monitoring wells (GMWs). The groundwater monitoring program updates also take into account NS's extensive, forty years of historic and current sampling, monitoring, and aquifer characterization. The rationale for these changes was previously presented to the agencies in late 2021. Starting January 2022 NS will begin the sampling schedule per the NS Sampling and Analysis Plan (SAP), Figure 6 highlights the changes from 2021 sampling versus 2022 sampling.

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### Figure 6: NS GMWs Sampling/Monitoring Schedule – 2021 vs. 2022

Groundwater Sampling Color Ke y						
Sampling: Major & Minor Analytes (Laboratory, NS-1GW, 5 bottle), includes field parameters (Temp, pH, Conductivity)						
Sampling: Major Analytes (Laboratory, NS-2GW, 3 bottle), includes field parameters (Temp, pH, Conductivity)						
Sampling: Major Analytes (Laboratory, NS-2GW, 3 bottle) monthly, includes field parameters (Temp, pH, Conductivity) and an annual Major & Minor Analytes (Laboratory, NS-1GW, 5 bottle) sample						

Sampling: Field Parameters: Temp, pH, Conductivity and/or NS lab: Alkalinity, Chloride, & Conductivity

Aquifer 0	Color Key		Notes								
Perched	Historic Upper (Perched	wells currently equipped with WL continuous data loggers (WL CDL) are denoted with red font. NS may re									
A-Groove	& A-Groove)		mining conditions.								
B-Groove	Historic Lower	Well name with <b>bold f</b>	tly has more frequent								
DS	(B-Groove & DS)		water quality monitoring.								

Well Name	Aquifer	Current Groundwater Quality Monitoring Sample Frequency (verbiage) and Sample Type (color)	Current Potentiometric Water Level Monitor Frequency (verbiage)	Change in Monitoring (Yes/No)	Modified Groundwater Quality Monitoring Sample Frequency (verbiage) and Sample Type (color)	Modified Potentiometric Water Level Monitor Frequency (verbiage)
89-3	Perched	Quarterly	Quarterly	Yes	Annual	Quarterly
IRI-1	Perched	Quarterly	Quarterly	Yes	Annual	Quarterly
IRI-5	Perched	Annual	Quarterly	No	Annual	Quarterly
PA-1	Perched	Quarterly	Quarterly	Yes	Annual	Quarterly
89-2	A-Groove	Quarterly	Quarterly	No	Quarterly	Quarterly
90-1	A-Groove	Quarterly	Quarterly	Yes	Annual	Quarterly
90-4	A-Groove	Quarterly	Quarterly	No	Quarterly	Quarterly
AG-1	A-Groove	Annual	Annual	Yes	Quarterly	Quarterly
AG-2	A-Groove	Quarterly	Quarterly	Yes	Annual	Quarterly
IRI-4	A-Groove	Annual	Annual	Yes	Annual	Quarterly
89-1	B-Groove	Quarterly	Quarterly	No	Quarterly	Quarterly
90-3	B-Groove	Quarterly	Quarterly	No	Quarterly	Quarterly
BG-1	B-Groove	Quarterly	Quarterly	Yes	Monthly	Monthly
BG-4	B-Groove	Monthly	Monthly	Yes	Monthly	Monthly & WL CDL
BG-6	B-Groove	Monthly	Monthly	Yes	Monthly	Monthly & WL CDL
BG-7	B-Groove	Annual	Annual	No	Annual	Annual
BG-10	B-Groove	Quarterly	Quarterly	No	Quarterly	Quarterly
BG-11	B-Groove	Monthly	Monthly	Yes	Quarterly	Quarterly & WL CDL
IRI-6	B-Groove	Annual	Annual	No	Annual	Annual
IRI-11	B-Groove	na	Annual	No	na	Annual
DS-2	DS	Monthly	Monthly	Yes	Annual	Annual
DS-3	DS	Monthly	Monthly	Yes	Annual	Quarterly & WL CDL
DS-6	DS	Monthly	Monthly	Yes	Annual	Quarterly & WL CDL
DS-7	DS	Monthly	Monthly	Yes	Annual	Quarterly & WL CDL
DS-8	DS	Annual	Annual	No	Annual	Annual
DS-9	DS	Annual	Annual	No	Annual	Annual
DS-10	DS	Monthly	Monthly	Yes	Annual	Quarterly & WL CDL
IRI-7	DS	Annual	Annual	No	Annual	Annual
TH75-6B (USGS)	Lower (B & DS)	na	Annual	No	na	Annual
TH75-11B (USGS)	Lower (B & DS)	na	Annual	No	na	Annual
TH75-6A (USGS)	Upper (Pr & A)	na	Annual	No	na	Annual
TH75-11A (USGS)	Upper (Pr & A)	na	Annual	No	na	Annual
			Water Supply Wells			
		Monthly	na	No	Monthly	na
WSW-2	A-Groove	Quarterly	na	No	Quarterly	na
		Annual	na	No	Annual	na
		Monthly	na	No	Monthly	na
WSW-3	A-Groove	Quarterly	na	No	Quarterly	na
		Annual	na	No	Annual	na
		Monthly	na	No	Monthly	na
WSW-4	A-Groove	Quarterly	na	No	Quarterly	na
		Annual	na	No	Annual	na





## 4.3 2021 Operation Results (Confidential)

Mining and production activities were continuous in 2021. The following Table 5 provides a summary of mining and process results:

<u>2021</u>	Recovery	<u>Recovery</u>	<u>Assay</u>	<u>Assay</u>	Tons	<u>Tons</u>	<u>Tons</u>	Tons	Tons	<u>Tons</u>	<u>Tons</u>	Monthly		
<u>Month</u>	Avg GPM	Temp.	Bicarb g/l	NaCl g/l	Mining Interval #12H	Mining Interval #13H	Mining Interval #14H	Mining Interval #15H	Mining Interval #16H	Mining Interval #17H	Mining Interval DVPW1	Total Tons		
Jan-2021	1,893	192	207	18	3,004	1,065	3,519	4,687	5,260	4,462	0	21,997		
Feb-2021	1,808	189	203	17	2,658	916	3,829	4,067	4,881	2,126	0	18,477		
Mar-2021	1,946	189	202	16	2,987	3,173	4,922	4,788	5,078	1,702	0	22,650		
Apr-2021	1,895	189	206	16	4,788	2,575	4,197	3,522	5,618	219	0	20,917		
May-2021	1,661	188	205	16	105	4,765	3,920	2,563	6,022	1,498	0	18,873		
Jun-2021	1,893	187	204	16	2,511	4,603	3,447	2,594	6,768	827	0	20,749		
Jul-2021	1,916	185	207	17	5,075	68	3,931	5,095	8,015	0	0	22,183		
Aug-2021	1,927	188	207	16	6,008	0	4,772	2,790	8,877	0	0	22,448		
Sep-2021	2,011	185	207	14	4,434	352	5,010	4,507	7,619	0	0	21,921		
Oct-2021	1,942	190	208	14	0	4,447	4,766	5,770	7,439	0	0	22,422		
Nov-2021	1,924	191	211	15	0	3,796	5,348	6,226	7,007	0	0	22,377		
Dec-2021	1,911	190	209	15	0	4,254	5,740	5,009	7,758	0	0	22,761		
AVERAGE	1,894	189	206	16	2,631	2,501	4,450	4,302	6,695	903	0	21,481		
TOTAL					31,570	30,012	53,401	51,619	80,341	10,834	0	257,776		
		Re	covery - Mor	thly average	house flow ra	te and pregna	nt liquor temp	erature during	g process ope	rations.		-		
Key to above headings:		As	Assay - g/L sodium bicarbonate (as total bicarbonate) and sodium chloride in the pregnant liquor.											
		(Total bicarbonate = bicarbonate g/L + 1.58 x carbonate g/L)												
		То	Tons - Total monthly bicarbonate production from each mining interval.											
		Tei	mp Tempe	rature in degi	rees F recover	ed at the preg	nant liquor tar	nk.						
		Av	g GPM - Mon	thly average	injection flow	rate during pr	ocess operati	ons.						

Table 5: Mine and Process Data (Confidential)





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Figure 7 illustrates 2021 pregnant liquor analytical results along with monthly averages of sodium bicarbonate production (tons/day). Figure 8 represents monthly and cumulative annual production for 2021. NS produced and processed their sodium bicarbonate product throughout 2021.



Figure 7: Pregnant Assays and Production (Confidential)





## 4.4 Geotechnical Program (TDR and Geophysical Logging)

Historically NS monitored two long-time, historic time-domain-reflectometry (TDR) subsurface-subsidence monitor wells, the 4A-5M and 3M-TDR. The TDR monitoring results were reported to the BLM (monthly) and EPA (quarterly). There has been no indication of surface or subsurface subsidence near the 4A-5M or 3M-TDR wells since installation.

After having met the EPA requirement for three years of subsidence monitoring following cessation of mining, the monitoring of the 3M-TDR cables was halted in 2021.

In 2022 the 4A-5M TDR monitoring will cease, following the same EPA guidance. The 4A-5M monitors the 8H mining interval. The 8H wells were abandoned in May of 2019.

4A-5M Cable A (Figure 9), and Cable B (Figure 10) show the original September 2007 TDR measurement versus December 2021.



Figure 9: 4A-5M TDR Cable A, Sept 2007 vs. Dec 2021





Figure 10: 4A-5M TDR Cable B, Sept 2007 vs. Dec 2021

### 4.4.1 Subsurface Subsidence Geophysical Logging

NS conducted the final EPA mandated, subsurface subsidence logging, in the BG-9 (DS-5, 2010-26-198-1C) monitor well on January 31, 2021 prior to P&A operations.

### 4.4.2 Surface Subsidence Monitoring

A surface subsidence monument (SSM) survey of all SSMs above NS's area of operations was conducted in the second quarter of 2021. Results of the 2021 SSM survey are shown in Table 6 below. The next planed SSM survey of all SSM's will be conducted in the second quarter of 2023.

### 4.5 Water Well Pumpage

In 2021, approximately 83.49 million gallons of water was pumped from water supply wells WSW-2, WSW-3, and WSW-4 with an average of 159.9 gpm. The total pumpage from WSW-2 was 781,190 gallons, WSW-3 was 39.81 million gallons, and the total pumpage from WSW-4 was 42.89 million gallons.

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Surface Subsidence Monument (SSM)	Initial Monument Elevation (ft. AMSL)	2021 Monument Elevation (ft. AMSL)	Elevation Change (ft.)		
CP SODA BM	6634.90	6634.90	0.00		
CP CENTER SSM	6658.99	6658.92	-0.07		
CP NORTH SSM	6639.21	6639.16	-0.04		
CP EAST SSM	6669.52	6669.42	-0.10		
CP SOUTH SSM	6683.84	6683.77	-0.07		
CP WEST SSM	6669.77	6669.70	-0.08		
CP 6 SSM	6682.88	6682.84	-0.04		
CP 7 SSM	6706.52	6706.58	0.06		
CP 8 SSM	6691.65	6691.66	0.01		
CP 10 SSM	6687.41	6687.38	-0.03		
10H SSM	6712.95	6712.66	-0.29		
11H SSM	6705.81	6705.40	-0.41		
12H SSM	6695.86	6695.58	-0.27		
13H SSM	6684.47	6684.05	-0.43		
14H SSM	6675.20	6674.91	-0.29		
15X SSM	6694.41	6694.38	-0.02		
15H SSM	6702.35	6702.24	-0.11		
16H SSM	6713.03	6713.00	-0.03		
17H SSM	6719.06	6719.07	0.02		
12HA SSM	6661.41	6661.37	-0.04		
CP 11 SSM	6653.71	6653.64	-0.07		
CP 12 SSM	6702.11	6702.10	-0.01		
CP 13 SSM	6725.22	6725.24	0.02		

 Table 6: Surface Subsidence Monument (SSM) Elevation Monitoring

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## 5.0 Environmental Monitoring and Protection

## 5.1 Hydrology Monitoring

### 5.1.1 Introduction

NS's hydrology monitoring program concentrates on groundwater, as there are no perennial streams or springs located on the NS's sodium leases. The USGS stream gauging station-monitoring program is conducted, with NS support, to provide regional surface stream flow data on Yellow and Piceance Creeks.

The hydrology-monitoring plan is designed to determine impacts of NS's solution mining operations on underground sources of drinking water, as designated by the US EPA.

Refer to Figure 3 and Figure 4 for the locations of existing monitor wells. Groundwater analytical results are presented in Appendix A.

### 5.1.2 Stream Gauging Stations

NS contracts with the USGS to monitor surface waters for water quality and quantity. Monitoring was performed upstream and downstream relative to the NS mining operations and with respect to Yellow Creek and Piceance Creek at four existing stations with extensive historical data. Historical stream gauging data is reported in this document and discharge data is complete through the 2021 water year (WY) (October 2020 – September 2021).

The USGS surface water data are available to the public from the USGS web site at http://co.water.usgs.gov. Table 7 and Table 8 summarize key 2021 WY data for surface water near the NS site.

Data reported in Table 7 and Table 8 is compiled from the USGS web site. The Specific Conductance and Temp data included in the tables were generated by using USGS lab test results for each stream reported on the USGS web site during the 2021 WY.

A review of USGS stream water quality data indicated no significant change in stream water quality during 2021. The NS 2021 precipitation data showed a slight increase at the NS location in 2021 compared to 2020 (10.09" vs 9.79"). 2021 precipitation was approximately half that of 2018 (18.2") and 2019 (20.8"). The 2021 water year (WY) discharge (cfs) data in this area indicated a decrease in average stream discharge levels for the 6242 Corral Gulch, 6255 Yellow Creek, 6200 and 6222 Piceance Creek streams discharge. Precipitation and/or irrigation diversions may be affecting stream flow discharge levels. The USGS notes in the 2020 and 2021 year end water reports that the 6200 (Piceance Creek below Ryan Gulch) has diversions for irrigation upstream of the monitor station. The 6222 (Piceance Creek at White River) has diversions for irrigation of approximately 5,500 acres upstream from the monitor station. The 6255 (Yellow Creek near White River) has diversions to irrigate approximately 300 acres upstream from the monitor station. The 6242 (Corral Gulch near Rangely) which historically has been a low flow stream is not reported as having any diversions upstream from the monitoring station.

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The 2021 Specific Conductance data from USGS for all four stations was within the range values for the period of record. The four stream locations all had slight increases in Max Specific Conductance from 2020 to 2021 WY.

The 2021 water temperature values were within the range of historic data. Post review of the USGS data, no effect on stream water quality was noted due to the NS mining operations.

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2021 Project Status Report & Annual Plan of Development

<u>Station</u>			Average	Total Discharge 2021		Specific co				
	Discharge	Discharge	Total Discharge P of R			(µS/cm (	Temp (°c.)			
	P of R*	2021 WY**			P of R	2021 WY	P of R	2021 WY	P of R	2021 WY
	<u>cfs</u>	<u>cfs</u>	<u>ac ft/yr</u>	ac ft/yr	Max	Max	Min	Min	Max	Max
<u>6200</u>	25.10 (56 yrs)	5.94	18,151	4,300	2,800	2,100	600	1,610	26.3	24.4
6222	30.07 (55 yrs)	7.43	22,217	5,379	7,240	4,610	516	2,330	30.0	23.7
<u>6242</u>	1.47 (46 yrs)	0.18	1,065	130	1,760	1,440	312	1,260	24.0	16.3
6255	2.32 (43 yrs)	0.53	1,675	384	5,200	4,560	460	4,100	31.0	16.8
6200 Piceanc	e Creek below Ry	an Gulch		6242 Corral Gulch near Rangely						
6222 Piceanc	e Creek at White	River		6255 Yellow Creek near White River						
* P of R = Pe	riod of Record for	collection of da	ata.	**WY = Water Year (October-September).						
cfs = cubic fe	et per second, ave	erage annual fl	OW.	N/D = No data available at time of publication						

Table 7: Historical Comparison with 2021 Water Year Data

### Table 8: Yellow and Piceance Creek Discharge Data up to 2021 Water Year

Project Data Comparison														
Discharge for Water Years in cfs														
Station	2008	2009	2010	2011	2012	2013	2014	2015	<u>2016</u>	2017	2018	2019	2020	2021
6200	27.9	16.3	13.4	36.2	17.5	11.3	10.7	15.9	17.0	11.7	7.5	9.6	10.9	5.9
6222	36.2	20.8	17.6	41.7	19.2	11.8	13.0	19.7	21.2	15.5	8.9	11.6	12.4	7.4
6242	1.3	0.4	0.3	1.1	0.3	0.2	0.5	0.5	1.9	0.6	0.1	1.0	0.4	0.2
<u>6255</u>	1.1	1.0	0.9	1.3	1.2	1.1	1.2	1.3	1.3	1.7	0.8	1.6	0.9	0.5
	Maximum Specific C							nce (µS/ci	m @ 25°	C)				
Station	2008	2009	2010	2011	2012	<u>2013</u>	2014	<u>2015</u>	<u>2016</u>	2017	<u>2018</u>	<u>2019</u>	2020	2021
6200	1,460	1,620	2,020	1,460	1,610	1,930	2,040	1,770	1,840	2,120	1,700	1,740	1,590	2,100
6222	1,950	3,130	4,800	2,290	5,350	5,100	3,190	2,790	2,020	3,550	5,350	3,300	4,160	4,610
6242	1,350	1,320	1,460	1,280	1,480	1,430	1,400	1,330	1,170	1,280	1,490	1,480	1,260	1,440
6255	3,830	4,050	4,260	4,130	4,170	4,720	4,530	4,070	4,520	3,600	3,980	4,530	4,560	4,560
* P of R = Period of Record for collection of data. **WY = Water Y						Year (October-September). cfs = cubic feet per second, average annual flow.							ual flow.	
6200 Piceance Creek below Ryan Gulch						6242 Corral Gulch near Rangely								
6222 Piceance Creek at White River						6255 Yellow Creek near White River								
N/D No da	I/D No data available at time of publication.													





### 5.1.3 Monitoring Wells

Per regulatory requirements, dedicated groundwater monitoring wells have been constructed to monitor four water-bearing intervals identified as the Perched, A-Groove, B-Groove, and the Dissolution Surface Aquifers. The Dissolution Surface Aquifer has been exempted as an underground source of drinking water in the NS lease and permit areas. The DS Aquifer monitored by NS contains total dissolved solids (TDS) values in excess of 10,000 parts per million (PPM). These four aquifers are monitored at several locations across the solution mining area: up and down-gradient, remote down-gradient, and toward the east near the southeast portion of Section 26. Baseline and current groundwater monitoring data have been obtained from 1991 through present. Refer to Figure 3 and Figure 4 for well locations.

The Perched Aquifer is characteristically lower in TDS, conductivity, fluoride, SAR (sodium absorption ratio) and moderate to higher in sulfate and pH. The A-Groove and B-Groove Aquifers are similar in water quality with moderate TDS, conductivity, SAR, but higher fluoride. However, the B-Groove Aquifer generally has slightly higher levels of TDS, conductivity, SAR, and fluoride. The Dissolution Surface Aquifer is characterized by very high TDS and conductivity (30,000 to >100,000 ppm), higher SAR, magnesium, potassium, moderate pH, and a generally higher fluoride.

In 2021 the results of groundwater monitoring were analyzed for potential anomalies in order to prevent or mitigate potential negative impacts to the USDW's.

**Appendix A** contains detailed sampling results for all groundwater monitoring wells.

### 5.1.4 Storage and Evaporation Ponds

The NS storage and evaporation ponds have a secondary liner and are constructed to collect and direct any condensation or leakage to tubes for removal. Weekly collection and removal of leachate continued in 2021. Pond information is reported on a monthly basis.

### 5.1.5 Potentiometric Surface Maps (Confidential)

Using groundwater potentiometric elevations from NS groundwater monitoring wells and other NS wells, A-Groove and B-Groove Aquifer potentiometric surface maps have been plotted and have been included with this report in Appendix B (Confidential).

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# 6.0 Land Disturbance and Reclamation

# 6.1 Summary of 2021 Disturbance

NS created new disturbed acreage in 2021 by building one new pad with an access road (Up Gradient Well Location) and drilling three new GMWs; AG-2, BG-10, and the PA-1 wells. The BG-11 GMW was drilled on the existing 10H-13H pad resulting in no new disturbance. Interim reclamation activities occurred in 2021 on disturbed well pads and roads that reduced 2.66 acres from disturbed to interim reclaimed. An addition 0.44 acres of interim reclaimed well pads in 2021 was designated as undergoing final reclamation. The total disturbed acreage reported in 2020 was 102.59 acres. In 2021 the NS land disturbance increased to 103.68 acres as of December 2021. The total effected acreage of NS operations in 2021 is 108.25, which includes 4.57 acres that have been recognized as fully reclaimed by DRMS. Table 9 lists the disturbed acreage as of December 2021.

Process Area:	<u>Acres:</u>
Plant Site Disturbed	26.84
Plant Site Undergoing Interim Reclamation	4.46
Plant Site Undergoing Final Reclamation	0.00
Plant Site Successfully Reclaimed	0.00
Well Field:	
Roads Disturbed	2.49
Well Pads Disturbed	29.84
Roads/Misc. Undergoing Interim Reclamation	1.26
Well Pads Undergoing Interim Reclamation	15.32
Road/Misc. Undergoing Final Reclamation	4.18
Well Pads Undergoing Final Reclamation	19.29
Total Disturbance:	<u>103.68</u>
Road/Misc Recognized as Reclaimed by Agencies	0.00
Well Pads Recognized as Reclaimed by Agencies	4.57
Total Effected Acreage:	<u>108.25</u>

#### Table 9: Disturbed Acreage





# 6.2 Regulatory Compliance

## 6.2.1 Regulatory Activity

In 2021, all required reports were submitted in a timely manner. Required forms were submitted to the appropriate agencies regarding all activities pertaining to the new wells drilled & associated plugging and abandonment operations.

# 6.3 Reclamation Activity

# 6.3.1 Regrading & Scarification

In 2021 the 8H-I & R location was regraded and scarification occurred to reclaim the well pad to original contours in preparation of seeding. In October 2021 the newly built Up Gradient Location was regraded and scarification occurred to take the pad from disturbed to interim reclaimed status.

## 6.3.2 Seeding & Weed Control

All areas reseeded were completed with the BLM approved final seed mix in 2021. The 8H pad was seeded following reclamation regrading activity in November. Following interim regrading operations of the Up Gradient pad, the "pulled in" areas were seeded in November. P&A well pads: BG-5, BG-8 (DS-4), BG-9 (DS-5), IRI-MW-1, PW-1, PW-2, IRI-3, 93-2M, 2014 exploration well pads U and G were spot seeded at first winter snow cover in December.

Prior placed slash was stabilized on the DS-10 location in 2021 for interim reclamation compliance.

The NS 2021 noxious weed control program consisted of spraying the P&A'ed and reclaimed/interim reclaimed production well pads that contained the 7H, 8H, and 10H production wells. Active production well pads containing all wells for the mining intervals 12H, 13H, 14H, 15H, 16H, 17H, and DVPW wells were sprayed for weed control in 2021.

Annual vegetation monitoring continued in 2021 for the areas of study that are currently in final reclamation status. The report, *The 2021 Vegetation Monitoring Reclamation Status Report,* prepared by Mr. Rusty Roberts, can found in Appendix C.

# 6.3.3 Reclamation Fencing

Repair and maintenance activities were performed, as necessary, on existing fences in 2021. Fencing is utilized to keep livestock and wildlife out of the reclaimed areas. Barbed wire fencing was removed around the 4-3H(V) location.

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### 6.3.4 Precipitation

Perennial vegetation is an indicator of long-term precipitation, the "normal" precipitation for the NS site is 12-14 inches for the calendar year. The distribution of precipitation is important for proper reclamation. 2021 precipitation as measured at the NS plant was 10.09 inches. Table 10 provides a composite of precipitation from the NS mine site for the last 10 years.

Month/Year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	AVG
Jan	0.18	0.25	0.98	0.47	1.62	1.89	1.26	0.67	1.06	0.32	0.87
Feb	1.15	0.30	0.35	0.39	1.34	1.52	1.35	1.47	0.83	0.17	0.89
Mar	0.30	0.50	0.28	0.82	1.76	1.01	1.55	0.85	0.95	0.60	0.88
Apr	0.40	1.35	0.63	1.71	5.18	1.11	1.74	2.99	0.82	0.20	1.61
Мау	0.14	1.05	1.66	4.36	2.06	2.17	1.52	2.93	1.29	0.38	1.76
Jun	0.06	0.35	0.01	0.51	0.53	0.47	0.99	3.86	1.83	0.84	0.94
Jul	0.43	1.40	1.34	1.78	1.07	3.36	1.27	1.87	0.61	0.39	1.35
Aug	0.86	0.26	3.17	1.44	2.78	0.85	3.24	0.83	0.37	1.16	1.50
Sep	0.36	2.89	2.14	0.32	2.19	1.55	0.10	1.75	1.17	1.50	1.40
Oct	0.58	1.35	1.09	1.38	1.89	1.62	4.10	1.19	0.08	1.93	1.52
Nov	0.28	1.30	0.80	0.70	1.56	0.64	0.60	1.62	0.14	0.60	0.82
Dec	0.83	0.17	1.00	0.10	1.04	0.44	0.45	0.71	0.66	1.80	0.72
Annual Totals	5.57	11.17	13.45	13.97	23.02	16.63	18.17	20.75	9.79	10.09	14.26

Table 10: Annual Precipitation	in inches (10 Year)
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# 6.3.5 Vegetation Monitoring Results

A vegetation survey is undertaken annually on the NS lease to collect data from eight reclaimed pad sites. Seven of the locations are core hole locations (pad sites C, E, G, Q, U, IRI-3, and IRI-10) that are currently in final reclamation status and one former production well P&A location, the 93-2M. The dry conditions that occurred during the growing season in 2021 resulted in only minimal declines in total vegetation cover and composition of desirable species as compared to the values measured in 2020. Reclaimed sites achieving successful reclamation criteria in 2021 consisted of pad C, pad E, IRI-10, and pad Q. For details of the 2021 vegetation monitoring results, refer to Appendix C for the full *2021 Vegetation Monitoring Reclamation Status Report* prepared for NS by Mr. Rusty Roberts.

## 6.4 Deer Roadkill Study

Per the monitoring requirement from the BLM, NS compiled deer roadkill data throughout 2021 for vehicles traveling to and from the mine site. Two deer of unknown sex were reported as struck and killed in 2021. One elk of unknown sex was reported as struck in May and departing the area with no apparent injuries to the animal. One elk of unknown sex was reported as struck in August and departed the area with unknown injuries.

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### 6.5 Raptor Survey

On April 20, 2021 D&A, Inc. conducted a raptor breeding activity survey and inventory on behalf of NS in the pinion juniper habitat that is proximal to the 2021 upgradient groundwater monitoring well location, planned 2022 production wells (17H-1V & 17H-IR-E), and planned 2022 17H-1V-SSMW subsidence well drilling. A pedestrian survey, with the addition of call-playback techniques, was undertaken. The surveyed area included portions of sections 25, 26, 35, and 36 of T1S, R98W. The BLM WRFO assisted NS by identifying areas which may provide the most suitable raptor nesting habitat within the project area. No new or known nests were observed within the survey area during the survey. Two known raven nests first documented in 2014 were no longer present in 2021. One golden eagle was observed inside the survey area near the 12H-IR pad, the eagle was on the ground in a wooded area and appeared to be eating, it departed as surveyors approached. Surveyors followed the direction of the eagle's flight but the eagle had left the area. Weather conditions during the survey were optimal with full sun, light breeze and cool temperatures (40 – 55 degrees Fahrenheit). A report was written and submitted to the BLM following completion of the survey. The area surveyed in 2021 included the areas of the planned 2022 well field development activities, therefore, per BLM guidelines, no raptor survey will be conducted in 2022.

### 6.6 Other Observations

Elk, deer, coyotes, rabbits, bobcat, and fox were noted in and around the well-field throughout the year.

## 6.7 Waste Disposal

Common domestic solid waste was collected in containers and periodically transported to the Rio Blanco County landfill. Sewage from the plant was directed to a septic system with a leach drain field. Process water, including cooling tower blowdowns, boiler ditch, plant wash down, blow down from the boilers, and precipitation runoff, was directed to the process pond. A pump in the process storage pond allows NS to recycle the water to the barren system. The wastewater evaporation pond contains water from the cooling tower overflow and laboratory drains. Table 11 indicates hazardous waste that was generated and collected at the NS facilities. Hazardous waste was collected, contained safely, stored separately from day to day waste, and then disposed of properly by Clean Harbors, Inc., a certified hazardous waste handling/disposal company.

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Date Shipped	# of Containers / Type	Total Quantity	Contents / Waste	Weight:	Code & MGT Code	EPA Waste Code
	1 DF	500 P	NA3082, HAZARDOUS WASTE, LIQUID, N.O.S. (SILVER, CHROMIUM) , 9, PG III – CHLORIDE TEST WASTE	502 LBS	CCSS & H132	D007, D011
	1 CF	15 P	NONE, NON DOT REGULATED MATERIAL, N/A, NONE, (UNIVERSAL WASTE-LAMPS) – STRAIGHT FLUORESCENT TUBES FOR RECLAIM.	150 LBS	CFL1 & H039	NONE
February , 2021	1 DF	5 G	Labpack Aerosols For Incineration, Compressed gases	20 LBS	LCCRQ & H040	D003
	1 DF	55 G	Labpack Flammables For Incineration, Lab packs with no acute hazardous waste	68 LBS	LCCRD & H040	D001
	54 CF	1125 P	UN2794, BATTERIES, WET, FILLED WITH ACID, 8, NONE, (UNIVERSAL WASTE- BATTERIES)	486 LBS	LBLA & H141	None
December, 2021	2 DM	10 P	NA3082, HAZARDOUS WASTE, LIQUID, N.O.S. (SILVER, CHROMIUM) , 9, PG III – CHLORIDE TEST WASTE	0 LBS	CH95548/CCSS & H132	D007, D011
December, 2021	1 DF	5 G	UN1993, WASTE FLAMMABLE LIQUIDS, N.O.S. (ACETONE, ISOPROPANOL) , 3, PG II ACETONE WITH TERPENE PHENOLIC AND BLACK INK.	32 LBS	CH1791276/FB1 & H040	D001, F003
			Reported from Natural Soda by Mr. Gerry Deschaine 01/13/2022			

# Table 11: Hazardous Waste Disposal







# **Natural Soda LLC**

# 2021

# Appendix A Groundwater Analytical Results



Deremetere	No of	Llinh	Date	Low	Data	Averege	Unito
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	Samples 179	404.00	08/28/2013	66.00	09/14/1992	201.80	ma/l
	179	138.00	12/05/2012	3.00	06/26/1990	30.03	mg/l mg/l
Carbonate as CaCO3 Total Alkalinity as CaCO3	179	524.00	08/28/2012	66.00	09/14/1992	224.03	mg/l
Bromide	25	0.60	07/06/2000	0.05	10/22/1989	0.19	mg/l
Cation-Anion Balance	177	15.70		-13.00	12/16/2015		111 <u>9</u> /1 %
			06/14/2017			0.06 7.53	
Sum of Anions	<u>156</u> 157	12.60	08/28/2013	5.10	06/14/2017		meq/l
Sum of Cations Chemical Oxygen Demand	19	<u>11.80</u> 300.00	08/28/2013	<u>5.78</u> 10.00	09/14/1992	<u>7.49</u> 51.82	meq/l
Chloride			09/23/2010		10/22/1989		mg/l
	<u>179</u> 175	75.30	08/28/2013	4.00	09/27/1990	16.05	mg/l
Conductivity, Lab		1,210.00	08/28/2013	534.00	08/06/1992	724.99	µmhos
Fluoride	179	18.00	07/31/1991	0.02	04/19/2001	0.47	mg/l
Hardness as CaCO3	178	113.00	04/11/2006	27.00	03/30/1990	79.29	mg/l
Nitrate as N, dissolved	27	0.76	07/24/2002	0.02	12/05/2012	0.14	mg/l
Nitrate/Nitrite as N,	27	0.85	07/24/2002	0.03	07/18/1995	0.15	mg/l
Nitrite as N, dissolved	27	0.10	06/26/1991	0.01	06/25/2007	0.04	mg/l
Nitrogen, Ammonia	24	13.10	09/23/2010	0.11	07/12/1996	1.52	mg/l
Nitrogen, Organic	24	13.40	06/26/1991	0.10	07/18/1995	1.93	mg/l
Nitrogen, Total Kjeldahl	24	25.40	09/23/2010	0.20	07/21/1994	3.20	mg/l
pH, lab	178	11.50	12/19/1991	6.60	09/14/1992	8.59	units
Phosphate, total	22	155.00	06/25/2007	0.03	07/02/1998	11.12	mg/l
Phosphorus, total	24	2.33	09/23/2010	0.01	06/26/1991	0.23	mg/l
SAR in Water	168	15.92	03/30/1990	4.82	09/14/1992	6.83	none
Sulfate	179	296.00	03/30/1990	1.00	12/12/2008	126.47	mg/l
Sulfide	21	4.50	09/23/2010	0.03	07/02/1998	0.49	mg/l
Total Dissolved Solids	179	659.00	08/28/2013	329.00	06/14/2017	441.03	mg/l
Conductivity, Field	196	16,000.00	07/01/1990	500.00	02/24/1993	775.64	μmhos
• /							
pH. Field	197	10.23	07/19/2009	6.90	12/12/2018	8.68	units
pH, Field Temperature (°C), Field	<u>197</u> 107	<u>10.23</u> 21.10	07/19/2009 07/19/2009	<u>6.90</u> 6.40	12/12/2018 12/01/1990	<u>8.68</u> 12.14	units (°C)
Temperature (°C), Field	107	21.10	07/19/2009	6.40	12/01/1990	12.14	(°C)
Temperature (°C), Field Water Level, Field	107	21.10 341.00	07/19/2009 09/01/2011	6.40	12/01/1990	12.14 323.05	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	107 93 <b>No. of</b>	21.10	07/19/2009	6.40 315.00	12/01/1990 05/18/2021	12.14	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	107 93 No. of Samples	21.10 341.00 <b>High</b>	07/19/2009 09/01/2011 Date	6.40 315.00 Low	12/01/1990 05/18/2021 Date	12.14 323.05 Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	107 93 <b>No. of</b> Samples 26	21.10 341.00 <b>High</b> 2.12	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001	6.40 315.00 Low	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999	12.14 323.05 <b>Average</b> 0.42	(°C) Ft. <b>Units</b> mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	107 93 <b>No. of</b> <u>Samples</u> 26 25	21.10 341.00 <b>High</b> 2.12 0.04	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989	6.40 315.00 Low 0.03 0.0007	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012	12.14 323.05 Average 0.42 0.01	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	107 93 <b>No. of</b> <u>Samples</u> 26 25 25	21.10 341.00 High 2.12 0.04 0.69	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990	6.40 315.00 Low 0.03 0.0007 0.01	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989	12.14 323.05 Average 0.42 0.01 0.06	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	107 93 <b>No. of</b> <u>Samples</u> 26 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991	6.40 315.00 Low 0.03 0.0007 0.01 0.01	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	107 93 <b>No. of</b> <u>Samples</u> 26 25 25 25 25 25 179	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013	6.40 315.00 Low 0.03 0.0007 0.01 0.01 0.02	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	107 93 <b>No. of</b> <u>Samples</u> 26 25 25 25 25 179 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995	6.40 315.00 Low 0.03 0.0007 0.01 0.01 0.02 U	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	107 93 <b>No. of</b> 26 25 25 25 25 179 25 179	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990	6.40 315.00 Low 0.03 0.0007 0.01 0.01 0.02 U 4.50	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	107 93 <b>No. of</b> 26 25 25 25 25 179 25 179 25 179 26	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991	6.40 315.00 Low 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	107 93 <b>No. of</b> 26 25 25 25 25 179 25 179 25 179 26 26	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012	6.40 315.00 Low 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	107 93 <b>No. of</b> 26 25 25 25 25 179 25 179 25 179 26 26 26 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990	6.40 315.00 Low 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	107 93 <b>No. of</b> <b>Samples</b> 26 25 25 25 25 179 25 179 25 179 26 26 26 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009	6.40 315.00 <b>Low</b> 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01 0.02	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	107 93 <b>No. of</b> 26 25 25 25 25 179 25 179 26 26 26 26 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009 03/30/1990	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01 0.01 0.02 0.02	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	107 93 <b>No. of</b> 26 25 25 25 25 179 25 179 26 26 26 26 25 25 25 25 25 179	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009 03/30/1990 07/24/2002	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01 0.01 0.02 0.02 3.00	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 06/26/1991 06/26/1991 03/30/1990	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 179 26 26 26 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009 03/30/1990 07/24/2002 09/27/1990	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01 0.02 0.02 3.00 0.01	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 06/26/1991 06/26/1991 06/26/1991 03/30/1990 07/07/1999	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadrium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 179 26 26 26 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009 03/30/1990 07/24/2002 09/27/1990 10/22/1989	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01 0.02 0.02 3.00 0.01 0.01 0.02	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23 0.03 0.0006	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 179 26 26 26 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.01 0.02 0.02 3.00 0.01 0.02 0.02 3.00 0.01 0.01 0.001	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23 0.03 0.0006 0.07	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 08/19/2009 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.02 0.02 3.00 0.02 3.00 0.01 0.02 0.02 3.00 0.01 0.01 0.001 0.001 0.02	12/01/1990 05/18/2021 <b>Date</b> 07/07/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23 0.03 0.0006 0.07 0.02	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Barium, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02 10.00	07/19/2009 09/01/2011 <b>Date</b> 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989 01/31/1991	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.02 0.02 3.00 0.02 3.00 0.01 0.02 0.02 3.00 0.01 0.01 0.001 0.01 0.02 0.04	12/01/1990 05/18/2021 05/18/2021 10/22/1999 12/05/2012 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 07/12/1996 10/22/1989 04/28/1995	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.03 12.23 0.03 12.23 0.03 0.0006 0.07 0.02 1.18	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02 10.00 U	07/19/2009 09/01/2011 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989 01/31/1991 03/30/1990	6.40           315.00           Low           0.03           0.0007           0.01           0.01           0.02           U           4.50           0.01           0.01           0.02           0.01           0.02           0.01           0.02           0.02           0.02           0.02           0.02           0.02           0.01           0.02           0.01           0.02           0.04           0.001	12/01/1990 05/18/2021 05/18/2021 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 07/12/1996 10/22/1989 04/28/1995 09/27/1990	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.03 12.23 0.03 12.23 0.03 0.0006 0.07 0.02 1.18 0.002	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02 10.00 U 33.20	07/19/2009 09/01/2011 09/01/2011 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989 01/31/1991 03/30/1990	6.40 315.00 0.03 0.0007 0.01 0.01 0.02 U 4.50 0.01 0.01 0.02 0.02 3.00 0.01 0.02 3.00 0.01 0.02 0.02 3.00 0.01 0.01 0.01 0.02 0.04 0.04 0.001 4.80	12/01/1990 05/18/2021 05/18/2021 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 07/12/1996 10/22/1989 04/28/1995 09/27/1990 01/21/1992	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23 0.03 12.23 0.03 0.0006 0.07 0.02 1.18 0.002 15.53	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Barium, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02 10.00 U 33.20 236.00	07/19/2009 09/01/2011 09/01/2011 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989 06/26/1990 10/22/1989 01/31/1991 03/30/1990 07/27/2001 08/28/2013	6.40           315.00           Low           0.03           0.0007           0.01           0.01           0.02           U           4.50           0.01           0.01           0.02           0.01           0.02           0.02           3.00           0.01           0.02           3.00           0.01           0.02           3.00           0.01           0.02           0.04           0.001           4.80           96.00	12/01/1990 05/18/2021 05/18/2021 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 07/12/1996 10/22/1989 04/28/1995 09/27/1990 01/21/1992	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.03 12.23 0.03 12.23 0.03 0.0006 0.07 0.02 1.18 0.002 1.18 0.002 15.53 133.51	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	107 93 No. of Samples 26 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02 10.00 U 33.20 236.00 1.09	07/19/2009 09/01/2011 09/01/2011 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989 06/26/1990 10/22/1989 06/26/1990 10/22/1989 01/31/1991 03/30/1990 07/27/2001 08/28/2013 04/11/2006	6.40           315.00           Low           0.03           0.0007           0.01           0.01           0.02           U           4.50           0.01           0.01           0.01           0.01           0.01           0.02           3.00           0.01           0.02           3.00           0.01           0.02           0.04           0.001           4.80           96.00           0.17	12/01/1990 05/18/2021 05/18/2021 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 07/12/1996 10/22/1989 04/28/1995 09/27/1990 01/21/1992 09/14/1992 03/30/1990	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.04 0.03 12.23 0.03 0.0006 0.07 0.02 1.18 0.002 1.18 0.002 15.53 133.51 0.82	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Barium, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	107 93 <b>No. of</b> <b>Samples</b> 25 25 25 25 179 25 25 25 25 25 25 25 25 25 25 25 25 25	21.10 341.00 High 2.12 0.04 0.69 0.01 0.43 0.003 17.00 0.01 0.20 4.17 0.06 0.05 18.40 0.14 U 0.15 0.02 10.00 U 33.20 236.00	07/19/2009 09/01/2011 09/01/2011 07/27/2001 10/22/1989 03/30/1990 06/26/1991 08/28/2013 09/13/1995 09/27/1990 06/26/1991 12/05/2012 09/27/1990 03/30/1990 07/24/2002 09/27/1990 10/22/1989 06/26/1990 10/22/1989 06/26/1990 10/22/1989 01/31/1991 03/30/1990 07/27/2001 08/28/2013	6.40           315.00           Low           0.03           0.0007           0.01           0.01           0.02           U           4.50           0.01           0.01           0.02           0.01           0.02           0.02           3.00           0.01           0.02           3.00           0.01           0.02           3.00           0.01           0.02           0.04           0.001           4.80           96.00	12/01/1990 05/18/2021 05/18/2021 10/22/1989 06/26/1991 04/24/1991 12/05/2012 06/25/2007 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 03/30/1990 07/07/1999 06/26/1991 07/12/1996 10/22/1989 04/28/1995 09/27/1990 01/21/1992	12.14 323.05 <b>Average</b> 0.42 0.01 0.06 0.01 0.06 U 11.57 0.01 0.06 0.44 0.03 12.23 0.03 12.23 0.03 0.0006 0.07 0.02 1.18 0.002 1.18 0.002 15.53 133.51	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 12: 89-3 Annual Perched Aquifer

DAUB & ASSOCIATES, INC. 21. Frank Contraction



Parameters	No. of	High	Date	Low	Date	Avorado	Units
Wet Chemistry	Samples	підп	Dale	LOW	Dale	Average	Units
Bicarbonate as CaCO3	123	548.00	01/08/2015	0.00	08/01/1990	162.12	mg/l
Carbonate as CaCO3	123	300.00	10/25/1990	0.00	08/30/2008	117.49	mg/l
Total Alkalinity as CaCO3	123	900.00	08/01/1990	96.40	08/10/2021	294.81	mg/l
Bromide	26	1.60	07/21/1993	0.06	06/16/2011	0.29	mg/l
Cation-Anion Balance	120	63.90	08/14/2017	-16.00	03/13/2003	0.64	%
Sum of Anions	113	24.97	08/13/1990	5.00	08/10/2021	8.88	meq/l
Sum of Cations	113	50.00	08/14/2017	5.70	06/14/2011	9.33	meq/l
Chemical Oxygen Demand	19	300.00	09/21/2010	10.00	08/16/1994	46.25	mg/l
Chloride	123	400.00	04/24/1991	14.00	12/15/1992	53.39	mg/l
Conductivity, Lab	120	2,630.00	01/20/1992	347.00	08/10/2021	866.14	umhos
Fluoride	123	24.00	09/02/1998	1.70	04/20/1992	6.45	mg/l
Hardness as CaCO3	123	553.00	08/01/1990	2.00	06/23/2010	36.33	mg/l
Nitrate as N, dissolved	26	2.77	06/26/2002	0.02	06/28/2006	0.38	mg/l
Nitrate/Nitrite as N,	26	2.79	06/26/2002	0.02	06/28/2006	0.35	mg/l
Nitrite as N, dissolved	26	0.13	08/16/1996	0.03	08/01/1990	0.05	mg/l
Nitrogen, Ammonia	25	2.57	07/31/1991	0.01	06/09/1999	0.76	mg/l
Nitrogen, Organic	25	3.90	07/21/1992	0.23	06/16/2011	1.03	mg/l
Nitrogen, Total Kjeldahl	25	5.90	07/31/1991	0.50	06/16/2011	1.83	mg/l
pH, lab	120	11.30	07/31/1991	6.60	08/30/2008	9.56	units
Phosphate, total	24	155.00	06/28/2006	0.10	08/13/1990	18.35	mg/l
Phosphorus, total	24	1.41	09/21/2010	0.10	07/31/1991	0.26	
SAR in Water	115	76.00	08/14/2017	<u>0.03</u> 5.76	08/01/1990	21.25	mg/l
	123	243.00	12/15/1992	40.40	09/16/2019	75.69	none ma/l
Sulfate Sulfide	24	4.00	06/13/2001	0.03	06/02/1998	1.08	mg/l
	121						mg/l
Total Dissolved Solids		1,644.00	08/01/1990	328.00	08/10/2021	582.87	mg/l
Conductivity Field	101						
Conductivity, Field	181	3,500.00	08/01/1990	573.00	08/10/2021	1,145.74	<u>µmhos</u>
pH, Field	181	12.80	12/01/1990	6.04	08/30/2008	10.21	units
pH, Field Temperature (°C), Field	181 121	12.80 20.10	12/01/1990 05/16/2007	6.04 6.50	08/30/2008 12/12/2008	10.21 12.27	units (°C)
pH, Field	181	12.80	12/01/1990	6.04	08/30/2008	10.21	units
pH, Field Temperature (°C), Field Water Level, Field	181 121 95	12.80 20.10 387.19	12/01/1990 05/16/2007 08/14/2017	6.04 6.50 308.80	08/30/2008 12/12/2008 06/20/2017	10.21 12.27 380.50	units (°C) Ft.
pH, Field Temperature (°C), Field Water Level, Field Parameters	181 121 95 <b>No. of</b>	12.80 20.10	12/01/1990 05/16/2007	6.04 6.50	08/30/2008 12/12/2008	10.21 12.27	units (°C)
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals	181 121 95 No. of Samples	12.80 20.10 387.19 High	12/01/1990 05/16/2007 08/14/2017 Date	6.04 6.50 308.80	08/30/2008 12/12/2008 06/20/2017 Date	10.21 12.27 380.50 Average	units (°C) Ft. Units
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	181 121 95 <b>No. of</b> Samples 26	12.80 20.10 387.19 High 11.10	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996	6.04 6.50 308.80 Low	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009	10.21 12.27 380.50 Average 3.18	units (°C) Ft. <b>Units</b> mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	181 121 95 <b>No. of</b> Samples 26 26	12.80 20.10 387.19 High 11.10 0.01	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991	6.04 6.50 308.80 Low 0.06 0.0005	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023	units (°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995	6.04 6.50 308.80 Low 0.06 0.0005 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08	units (°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995	6.04 6.50 308.80 Low 0.06 0.0005 0.01 U	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U	units (°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 26 26 123	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015	6.04 6.50 308.80 Low 0.06 0.0005 0.01 U 0.00	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17	units (°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 26 123 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993	6.04 6.50 308.80 Low 0.06 0.0005 0.01 U 0.00 0.03	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03	units           (°C)           Ft.           Units           mg/l           mg/l           mg/l           mg/l           mg/l           mg/l           mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 123 26 123	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990	6.04 6.50 308.80 Low 0.06 0.0005 0.01 U 0.00 0.03 0.90	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 123 26 123 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990	6.04 6.50 308.80 Low 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 123 26 123 26 123 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 06/14/2000	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 123 26 123 26 123 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 06/14/2000 07/21/1993	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01 0.02	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 123 26 123 26 123 26 26 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 06/14/2000 07/21/1993	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01 0.02 0.05	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 123 26 123 26 123 26 26 26 26 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 06/14/2000 07/21/1993 07/21/1993 08/13/1990	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01 0.02 0.05 0.00	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 26 123 26 123 26 26 26 26 26 26 26 26 26 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 06/14/2000 07/21/1993 07/21/1993 08/13/1990 03/14/2000	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01 0.02 0.05 0.00 0.30	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 09/26/2001	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	181 121 95 <b>No. of</b> <b>Samples</b> 26 26 26 26 123 26 123 26 26 26 26 26 26 26 26 26 26 26 26 26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 06/14/2000 07/21/1993 07/21/1993 08/13/1990 03/14/2000 08/14/1995	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01 0.02 0.05 0.00 0.30 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 09/26/2001 08/30/2008	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	181           121           95           No. of           Samples           26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 06/14/2000 07/21/1993 07/21/1993 08/13/1990 03/14/2000 08/14/1995 08/14/1995	6.04 6.50 308.80 <b>Low</b> 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.01 0.02 0.05 0.00 0.30 0.01 U U	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 09/26/2001 08/30/2008 11/27/2012	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	181           121           95           No. of           Samples           26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.10	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 06/14/2000 07/21/1993 08/13/1990 03/14/2000 08/14/1995 08/01/1990	6.04 6.50 308.80 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.02 0.05 0.00 0.05 0.00 0.30 0.01 U 0.01 U 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	181           121           95           No. of           Samples           26 <td>12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.10 0.02</td> <td>12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 06/14/2000 07/21/1993 08/13/1990 03/14/2000 08/14/1995 08/14/1995 08/01/1990 10/25/1990</td> <td>6.04 6.50 308.80 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.02 0.05 0.00 0.05 0.00 0.30 0.01 U 0.01 0.01 0.01</td> <td>08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/16/1996</td> <td>10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.04 0.01</td> <td>units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l</td>	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.10 0.02	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 06/14/2000 07/21/1993 08/13/1990 03/14/2000 08/14/1995 08/14/1995 08/01/1990 10/25/1990	6.04 6.50 308.80 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.02 0.05 0.00 0.05 0.00 0.30 0.01 U 0.01 0.01 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/16/1996	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.04 0.01	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	181           121           95           No. of           Samples           26      <	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.37 0.0002 0.10 0.02 146.00	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 03/14/2000 08/13/1990 03/14/2000 08/14/1995 08/01/1990 10/25/1990 08/01/1990	6.04 6.50 308.80 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.02 0.05 0.00 0.05 0.00 0.30 0.01 U 0.01 0.01 U 0.01 0.01 0.01 0.01	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/16/1996 04/24/1991	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.04 0.01 7.50	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	181           121           95           No. of           Samples           26	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.37 0.0002 0.10 0.02 146.00 0.004	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 03/14/2000 08/14/1995 08/14/1995 08/14/1995 08/01/1990 10/25/1990 08/01/1990	6.04 6.50 308.80 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.02 0.05 0.00 0.03 0.00 0.01 0.02 0.05 0.00 0.01 U 0.01 0.01 0.01 0.01 0.01 0.	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/16/1996 04/24/1991 08/13/1990	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.04 0.01 7.50 0.003	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	181           121           95           No. of           Samples           26           123	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.37 0.0002 0.10 0.02 146.00 0.004 99.30	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 01/08/2015 07/21/1993 08/01/1990 08/01/1990 03/14/2000 08/14/1995 08/14/1995 08/01/1990 10/25/1990 08/01/1991 08/01/1991	6.04 6.50 308.80 0.06 0.0005 0.01 U 0.00 0.03 0.90 0.01 0.02 0.05 0.00 0.03 0.01 0.02 0.05 0.00 0.30 0.01 U 0.01 0.01 0.01 0.01 1.00 0.002 6.90	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/10/1996 04/24/1991 08/13/1990 09/04/2020	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.05 2.57 0.09 U 0.04 0.01 7.50 0.003 29.15	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	181           121           95           No. of           Samples           26           123           26           123           26           123	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.10 0.37 0.0002 0.10 0.02 146.00 0.004 99.30 1,110.00	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 08/14/1995 07/21/1993 08/01/1990 06/14/2000 07/21/1993 08/13/1990 03/14/2000 08/14/1995 08/01/1990 10/25/1990 08/01/1991 08/01/1991 08/14/1995 08/14/2017	6.04         6.50         308.80         Low         0.06         0.0005         0.01         0.00         0.03         0.90         0.01         0.02         0.05         0.00         0.30         0.01         0.02         0.01         0.01         0.01         0.02         0.01         0.02         6.90         124.00	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/16/1996 04/24/1991 08/13/1990 09/04/2020 05/18/2021	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.05 2.57 0.09 U 0.04 0.01 7.50 0.003 29.15 196.50	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	181         121         95         No. of         Samples         26         123         23         123	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.20 14.10 0.19 31.20 0.37 0.0002 0.37 0.0002 0.37 0.0002 0.10 0.02 146.00 0.004 99.30 1,110.00 2.45	12/01/1990 05/16/2007 08/14/2017 08/14/2017 08/14/2017 08/14/1996 07/31/1991 08/14/1995 08/14/1995 08/01/1990 08/01/1990 08/14/2000 08/14/1995 08/14/1995 08/01/1990 08/01/1990 07/31/1991 08/14/1995 08/14/2017 08/14/2017	6.04         6.50         308.80         Low         0.06         0.0005         0.01         0.00         0.03         0.90         0.01         0.02         0.05         0.00         0.30         0.01         0.02         0.01         0.01         0.02	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/10/1996 04/24/1991 08/13/1990 09/04/2020 05/18/2021 05/24/1994	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.05 2.57 0.09 U 0.04 0.01 7.50 0.003 29.15 196.50 0.30	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	181           121           95           No. of           Samples           26           123           26           123           26           123	12.80 20.10 387.19 High 11.10 0.01 0.29 0.003 0.39 0.03 223.00 0.02 0.20 14.10 0.10 0.19 31.20 0.37 0.0002 0.10 0.37 0.0002 0.10 0.02 146.00 0.004 99.30 1,110.00	12/01/1990 05/16/2007 08/14/2017 <b>Date</b> 08/16/1996 07/31/1991 08/14/1995 08/14/1995 08/14/1995 07/21/1993 08/01/1990 06/14/2000 07/21/1993 08/13/1990 03/14/2000 08/14/1995 08/01/1990 10/25/1990 08/01/1991 08/01/1991 08/14/1995 08/14/2017	6.04         6.50         308.80         Low         0.06         0.0005         0.01         0.00         0.03         0.90         0.01         0.02         0.05         0.00         0.30         0.01         0.02         0.01         0.01         0.01         0.02         0.01         0.02         6.90         124.00	08/30/2008 12/12/2008 06/20/2017 <b>Date</b> 07/29/2009 11/27/2012 11/27/2012 11/27/2012 11/27/2012 10/25/1990 07/21/1993 06/23/2010 08/16/1996 08/01/1990 07/21/1992 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/30/2008 11/27/2012 06/16/1997 08/16/1996 04/24/1991 08/13/1990 09/04/2020 05/18/2021	10.21 12.27 380.50 <b>Average</b> 3.18 0.0023 0.08 U 0.17 0.03 10.90 0.01 0.04 3.20 0.07 0.05 2.57 0.09 U 0.04 0.05 2.57 0.09 U 0.04 0.01 7.50 0.003 29.15 196.50	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 13: IRI-1 Annual Perched Aquifer

DAUB & ASSOCIATES, INC. 21. Frank Contraction



Devenetere	No of	Lliash	Data	Low	Data	A	Linite
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	327.00	06/30/2009	2.00	12/18/1991	183.65	ma/l
Bicarbonate as CaCO3 Carbonate as CaCO3	61 61	284.00	12/18/1991	0.00	06/14/2008	76.07	mg/l mg/l
Total Alkalinity as CaCO3	61	406.00	03/25/1992	181.00	05/29/2002	252.00	mg/l
Bromide	31	1.00	08/22/1991	0.00	08/12/1992	0.21	mg/l
Cation-Anion Balance	58	17.30	06/14/2008	-10.20	05/26/2004	0.21	%
Sum of Anions	53	15.77	06/16/1992	8.43	12/19/1995	9.91	meq/l
Sum of Cations	53	15.25	06/16/1992	7.90	05/26/2004	10.13	meg/l
Chemical Oxygen Demand	28	181.00	11/02/2015	0.00	05/29/2002	53.56	mg/l
Chloride	61	420.00	06/16/1992	9.00	12/19/1995	20.90	mg/l
Conductivity, Lab	61	1,500.00	06/16/1992	795.00	08/12/1991	975.49	μmhos
Fluoride	61	0.90	09/16/1991	0.00	06/30/1995	0.29	mg/l
Hardness as CaCO3	61	182.00	06/14/2008	1.00	12/20/1993	33.83	mg/l
Nitrate as N, dissolved	32	12.50	05/29/2002	0.00	08/12/1992	1.03	mg/l
Nitrate/Nitrite as N,	32	12.50	05/29/2002	0.00	08/12/1992	0.91	mg/l
Nitrite as N, dissolved	32	0.06	09/14/1992	0.00	08/12/1992	0.02	mg/l
Nitrogen, Ammonia	32	0.87	06/23/1994	0.08	05/21/2007	0.28	mg/l
Nitrogen, Organic	32	80.00	05/15/1998	0.00	03/09/2020	5.10	mg/l
Nitrogen, Total Kjeldahl	32	80.00	05/15/1998	0.20	03/09/2020	4.60	mg/l
pH, lab	61	11.90	06/28/1993	2.40	06/16/1992	9.21	units
Phosphate, total	30	155.00	07/29/2009	0.06	05/29/2002	5.81	mg/l
Phosphorus, total	32	1.87	06/18/1996	0.00	05/29/2002	0.20	mg/l
SAR in Water	52	90.44	01/20/1994	7.50	06/30/2002	22.27	none
SAN III Water Sulfate	61	290.00	03/25/1992	148.00	03/22/1996	203.74	mg/l
Sulfide	31	6.60	03/09/2020	0.05	06/14/2008	0.56	mg/l
Total Dissolved Solids	60	1,090	06/16/1992	504	04/21/1994	630	mg/l
Conductivity, Field	74	9,880	05/21/2007	715	12/19/1995	1,172	µmhos
pH, Field	74	12.00	08/12/1992	6.33	06/14/2008	9.86	units
Temperature (°C), Field	34	17	06/14/2008	9.70	11/01/2002	12	(°C)
	55	248.06	06/15/2010	228 20	03/08/2021	2/1 02	E+
Water Level, Field	55	248.06	06/15/2010	238.20	03/08/2021	241.02	Ft.
Parameters	No. of	248.06 High	06/15/2010 Date	238.20 Low	03/08/2021 Date	241.02 Average	Ft. Units
Parameters Metals	No. of Samples	High	Date	Low	Date	Average	Units
Parameters Metals Aluminum, dissolved	No. of Samples 31	<b>High</b> 10.00	<b>Date</b> 08/22/1992	<b>Low</b>	<b>Date</b> 05/29/2003	<b>Average</b> 1.17	Units mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved	No. of Samples 31 31	High 10.00 0.01	Date 08/22/1992 06/18/1996	Low 0.04 0.0003	Date 05/29/2003 05/26/2004	Average 1.17 0.0017	Units mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	No. of Samples 31 31 31	High 10.00 0.01 0.27	Date 08/22/1992 06/18/1996 05/21/2007	Low 0.04 0.0003 0.01	Date 05/29/2003 05/26/2004 05/26/2004	Average 1.17 0.0017 0.04	Units mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	No. of Samples 31 31 31 31 31	High 10.00 0.01 0.27 0.01	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992	Low 0.04 0.0003 0.01 U	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992	Average 1.17 0.0017 0.04 U	Units mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	No. of Samples 31 31 31 31 31 61	High 10.00 0.01 0.27 0.01 0.11	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005	Low 0.04 0.0003 0.01 U 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997	Average 1.17 0.0017 0.04 U 0.07	Units mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	No. of Samples 31 31 31 31 61 31	High 10.00 0.01 0.27 0.01 0.11 0.01	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992	Low 0.04 0.0003 0.01 U 0.02 U	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016	Average 1.17 0.0017 0.04 U 0.07 U	Units mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	No. of Samples 31 31 31 61 31 61 31 61	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008	Low 0.04 0.0003 0.01 U 0.02 U 1.00	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992	Average 1.17 0.0017 0.04 U 0.07 U 7.07	Units mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	No. of Samples 31 31 31 61 31 61 31 61 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01	Units mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	No. of Samples 31 31 31 61 31 61 31 61 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	No. of Samples 31 31 31 61 31 61 31 61 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.01	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992 08/22/1992 03/22/2016	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.01 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992 03/22/2016 10/03/2012	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.01 0.02 0.02 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 31 31 61	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992 03/22/2016 10/03/2012 06/30/2009	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.01 0.01 0.02 0.02 0.02 0.30	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 06/30/1995	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992 03/22/2016 10/03/2012 06/30/2009 08/22/1992	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.01 0.02 0.02 0.02 0.02 0.30 0.01	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 06/30/1995 08/22/1997	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992 03/22/2016 10/03/2012 06/30/2009 08/22/1992 08/22/1992	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.30 0.01 U	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 06/30/1995 08/22/1997 08/12/1991	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.05 0.03 4.58 0.02 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 61 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03	Date 08/22/1992 06/18/1996 05/21/2007 08/22/1992 11/21/2005 08/22/1992 06/14/2008 08/22/1992 06/25/2019 08/22/1992 03/22/2016 10/03/2012 06/30/2009 08/22/1992 08/22/1992 08/22/1992 06/14/2008	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.30 0.01 U 0.01 0.01	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 06/30/1995 08/22/1997 08/12/1991 06/18/1996	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 61 35 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           08/22/1992           06/30/2009           08/22/1992           06/14/2008           07/29/2009	Low 0.04 0.0003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.30 0.01 U 0.01 0.01 0.01 0.01 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 06/30/1995 08/22/1997 08/12/1991 06/18/1996 08/22/1992	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02 0.03	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	No. of Samples 31 31 31 31 61 31 61 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04 22.00	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           08/22/19	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.30 0.01 U 0.01 0.01 0.01 0.02 0.02 0.30 0.01 0.02 0.02 0.30 0.01	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 06/30/1995 08/22/1997 08/12/1991 06/18/1996 08/22/1992 06/25/2019	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02 U 0.02 0.03 7.35	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 61 35 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04 22.00 0.0010	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/12/1991	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.30 0.01 U 0.01 0.01 0.01 0.02 0.02 0.30 0.01 U 0.02 0.70 U	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 06/30/1995 08/22/1997 08/12/1991 06/18/1996 08/22/1992 06/25/2019 08/22/1992	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.03 4.58 0.02 U 0.02 U 0.02 0.03 7.35 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	No. of Samples 31 31 31 31 61 31 61 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04 22.00 0.0010 74.00	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.30 0.01 U 0.01 0.01 0.02 0.02 0.02 0.02 0.30 0.01 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 06/23/1994 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 06/18/1996 08/22/1992 06/25/2019 08/22/1992 03/21/2017	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02 U 0.02 0.03 7.35 U 18.27	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 61 35 31 31 31 31 61 31 31 31 31 31 31 31 60 31 60 31 60 60 60	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04 22.00 0.0010 74.00 336.00	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/16/1992	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.01 U 0.01 0.01 0.02 0.01 U 0.02 0.02 0.02 0.01 U 0.02 0.02 0.02 0.01 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 06/18/1996 08/22/1992 06/25/2019 08/22/1992 03/21/2017 05/26/2004	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02 U 0.02 0.03 7.35 U 18.27 208.58	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Marganese, dissolved Marcury, dissolved Marganese, dissolved Marcury, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	No. of Samples 31 31 31 31 61 31 61 31 31 31 31 31 31 31 31 31 31 31 31 31	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04 22.00 0.0010 74.00 336.00 1.30	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/16/1992           06/30/2009	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 U 0.01 0.01 0.02 0.01 U 0.02 0.02 0.02 0.02 0.01 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.0	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 06/18/1996 08/22/1992 06/25/2019 08/22/1992 03/21/2017 05/26/2004 06/16/1992	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02 0.03 7.35 U 18.27 208.58 0.49	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	No. of Samples 31 31 31 61 31 61 31 31 31 31 31 61 35 31 31 31 31 61 31 31 31 31 31 31 31 60 31 60 31 60 60 60	High 10.00 0.01 0.27 0.01 0.11 0.01 63.60 0.02 0.04 7.30 0.12 0.06 9.10 0.07 0.0001 0.03 0.04 22.00 0.0010 74.00 336.00	Date           08/22/1992           06/18/1996           05/21/2007           08/22/1992           11/21/2005           08/22/1992           06/14/2008           08/22/1992           06/25/2019           08/22/1992           06/25/2019           08/22/1992           03/22/2016           10/03/2012           06/30/2009           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/14/2008           07/29/2009           12/18/1991           08/22/1992           06/16/1992	Low 0.04 0.003 0.01 U 0.02 U 1.00 0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.01 U 0.01 0.01 0.02 0.01 U 0.02 0.02 0.02 0.01 U 0.02 0.02 0.02 0.01 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02	Date 05/29/2003 05/26/2004 05/26/2004 08/22/1992 08/22/1997 03/22/2016 06/16/1992 06/23/1994 05/26/2004 08/12/1991 05/26/2004 08/12/1991 05/26/2004 08/12/1991 06/18/1996 08/22/1992 06/25/2019 08/22/1992 03/21/2017 05/26/2004	Average 1.17 0.0017 0.04 U 0.07 U 7.07 0.01 0.02 0.65 0.05 0.03 4.58 0.02 U 0.02 U 0.02 0.03 7.35 U 18.27 208.58	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 14: IRI-5 Annual Perched Aquifer

DAUB & ASSOCIATES, INC.



Daramatore	No. of	High	Date		Date	Avorago	Units
Parameters Wet Chemistry	Samples	пign	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	4	496	08/21/2021	395	09/03/2021	437	mg/l
Carbonate as CaCO3	4	124	09/10/2021	55	08/21/2021	80	mg/l
Total Alkalinity as CaCO3	4	551	08/21/2021	479	09/03/2021	517	mg/l
Bromide	3	<u> </u>	08/21/2021	U	09/10/2021	Ŭ	mg/l
Cation-Anion Balance	4	2.60	09/03/2021	-2.60	11/12/2021	0.60	%
Sum of Anions	4	20.00	08/21/2021	19.00	09/03/2021	19.75	meq/l
Sum of Cations	4	21.00	08/21/2021	19.00	11/12/2021	20.00	meg/l
Chemical Oxygen Demand	3	48.00	08/21/2021	20.00	09/03/2021	34.00	mg/l
Chloride	4	13	09/03/2021	7	08/21/2021	11	mg/l
Conductivity, Lab	4	1,690	09/10/2021	1,630	09/03/2021	1,663	μmhos
Fluoride	4	Ú	08/21/2021	Ú	09/10/2021	Ú	mg/l
Hardness as CaCO3	4	619.00	08/21/2021	470.00	11/12/2021	530.50	mg/l
Nitrate as N, dissolved	3	UH	08/21/2021	UH	09/10/2021	UH	mg/l
Nitrate/Nitrite as N,	3	UH	08/21/2021	UH	09/10/2021	UH	mg/l
Nitrite as N, dissolved	3	UH	08/21/2021	UH	09/10/2021	UH	mg/l
Nitrogen, Ammonia	3	0.43	09/10/2021	0.27	08/21/2021	0.37	mg/l
Nitrogen, Organic	3	0.55	09/10/2021	0.22	09/03/2021	0.38	mg/l
Nitrogen, Total Kjeldahl	3	0.98	09/10/2021	0.29	08/21/2021	0.63	mg/l
pH, lab	4	8.80	09/03/2021	8.40	11/12/2021	8.65	units
Phosphate, total	3	1.02	09/03/2021	0.45	08/21/2021	0.65	mg/l
Phosphorus, total	3	0.33	09/03/2021	0.15	08/21/2021	0.21	mg/l
SAR in Water	4	4	11/12/2021	3.20	08/21/2021	4	none
Sulfate	4	439	08/21/2021	407	09/10/2021	425	mg/l
Sulfide	3	UH	08/21/2021	U	09/10/2021	U	mg/l
Total Dissolved Solids	4	1,190	08/21/2021	1,120	09/03/2021	1,145	mg/l
Conductivity, Field	3	1,633	09/03/2021	1,611	11/12/2021	1,619	µmhos
pH, Field	3	8.60	09/03/2021	8.41	11/12/2021	8.50	units
pH, Field Temperature (°C), Field	3 3	8.60 16.30	09/03/2021 09/10/2021	8.41 12.60	11/12/2021 11/12/2021	8.50 14.87	units (°C)
pH, Field	3	8.60	09/03/2021	8.41	11/12/2021	8.50	units
pH, Field Temperature (°C), Field Water Level, Field	3 3 3	8.60 16.30 305.20	09/03/2021 09/10/2021 11/12/2021	8.41 12.60 305.10	11/12/2021 11/12/2021 09/03/2021	8.50 14.87 305.13	units (°C) Ft.
pH, Field Temperature (°C), Field Water Level, Field Parameters	3 3 3 No. of	8.60 16.30	09/03/2021 09/10/2021	8.41 12.60	11/12/2021 11/12/2021	8.50 14.87	units (°C)
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals	3 3 3 No. of Samples	8.60 16.30 305.20 High	09/03/2021 09/10/2021 11/12/2021 Date	8.41 12.60 305.10 <b>Low</b>	11/12/2021 11/12/2021 09/03/2021 Date	8.50 14.87 305.13 Average	units (°C) Ft. Units
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	3 3 3 No. of Samples 3	8.60 16.30 305.20 High U	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021	8.41 12.60 305.10 Low	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021	8.50 14.87 305.13 <b>Average</b> U	units (°C) Ft. Units mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	3 3 3 No. of Samples 3 3	8.60 16.30 305.20 High U 0.01	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021	8.41 12.60 305.10 Low U 0.00	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021	8.50 14.87 305.13 <b>Average</b> U 0.01	units (°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3	8.60 16.30 305.20 High U 0.01 0.02	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021 09/03/2021	8.41 12.60 305.10 Low U 0.00 0.01	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02	units (°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021 09/03/2021 08/21/2021	8.41 12.60 305.10 Low U 0.00 0.01 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U	units (°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4	8.60 16.30 305.20 High U 0.01 0.02 U 0.10	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 Low U 0.00 0.01 U 0.09	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/03/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10	units (°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 3 4 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 Low U 0.00 0.01 U 0.09 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 3 4 3 4	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 3 4 3 4 3 4 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 11/12/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 4 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 4 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 3 4 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U	09/03/2021 09/10/2021 11/12/2021 <b>Date</b> 08/21/2021 09/10/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U U 0.13 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lead, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U 43.80 U U 0.13 U 0.08	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.20 U 0.11	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 4	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U U 0.13 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lead, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U U 0.13 U 0.13 U 0.08 87.60	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.20 U 0.11 95.50	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 4 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U U 0.13 U 0.13 U 0.08 87.60 0.05	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.20 U 0.11 95.50 0.13	units (°C) Ft. Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	3 3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 4 3 3 3 3 3 3 3 3 4 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21 U	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U U 0.13 U 0.13 U 0.08 87.60 0.05 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/03/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.20 U 0.11 95.50 0.13 U 0.02 U 0.02 U	units (°C) Ft. Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved	3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21 U 0.03	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 <b>Low</b> U 0.00 0.01 U 0.09 U 43.80 U 43.80 U U 0.13 U 0.08 87.60 0.05 U 0.02	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.20 U 0.11 95.50 0.13 U 0.02	units (°C) Ft. Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	3 3 3 3 <b>Samples</b> 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21 U 0.03 U 0.03 U	09/03/2021 09/10/2021 11/12/2021 08/21/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021	8.41 12.60 305.10 Low U 0.00 0.01 U 0.09 U 43.80 U 0.13 U 0.13 U 0.08 87.60 0.05 U 0.02 U	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021 08/21/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/03/2021 09/10/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.20 U 0.11 95.50 0.13 U 0.02 U 0.02 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	3 3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21 U 0.03 U 0.21 U 0.03 U 15.10 0.00011 32.50	09/03/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021 08/21/2021	8.41 12.60 305.10 U 0.00 0.01 U 0.09 U 43.80 U 43.80 U U 0.13 U 0.08 87.60 0.05 U 0.05 U 0.02 U 2.20 0.00011 21.90	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.11 95.50 0.13 U 0.02 U 0.13 U 0.02 U 10.65 0.00016 25.25	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	3 3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21 U 0.03 U 0.12 105.00 0.21 U 0.03 U 15.10 0.00011 32.50 210	09/03/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021	8.41 12.60 305.10 Low U 0.00 0.01 U 0.09 U 43.80 U 43.80 U 0.09 U 43.80 U 0.09 U 43.80 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.00 0.01 U 0.09 U 0.09 U 0.03 U 0.05 U 0.02 U 0.03 0.02 U 0.02 U 0.00 0.02 U 0.02 U 0.00011 2.200 0.00011 21.900 183	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.11 95.50 0.13 U 0.20 U 0.11 95.50 0.13 U 0.02 U 10.65 0.00016 25.25 200	units (°C) Ft. Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magaesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	3 3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U 0.10 U 74.80 U 0.30 U 0.12 105.00 0.21 U 0.03 U 0.21 U 0.03 U 15.10 0.00011 32.50 210 2.56	09/03/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021 08/21/2021	8.41 12.60 305.10 U 0.00 0.01 U 0.09 U 43.80 U 43.80 U U 0.13 U 0.08 87.60 0.05 U 0.05 U 0.02 U 2.20 0.00011 21.90	11/12/2021 11/12/2021 09/03/2021 09/03/2021 08/21/2021 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.10 U 0.20 U 0.11 95.50 0.13 U 0.02 U 0.13 U 0.02 U 0.13 0.02 U 0.13 0.02 0.13 0.02 0.13 0.02 0.13 0.02 0.13 0.02 0.13 0.02 0.13 0.02 0.13 0.20 0.13 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.2	units (°C) Ft. Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	3 3 3 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8.60 16.30 305.20 High U 0.01 0.02 U 0.10 U 74.80 U U 0.30 U 0.12 105.00 0.21 U 0.03 U 0.12 105.00 0.21 U 0.03 U 15.10 0.00011 32.50 210	09/03/2021 09/10/2021 11/12/2021 09/10/2021 09/10/2021 09/03/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021 08/21/2021 09/03/2021	8.41 12.60 305.10 Low U 0.00 0.01 U 0.09 U 43.80 U 43.80 U 0.09 U 43.80 U 0.09 U 43.80 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.09 U 0.00 0.01 U 0.09 U 0.09 U 0.03 U 0.05 U 0.02 U 0.03 0.02 U 0.02 U 0.00 0.02 U 0.02 U 0.00011 2.200 0.00011 21.900 183	11/12/2021 11/12/2021 09/03/2021 <b>Date</b> 09/10/2021	8.50 14.87 305.13 <b>Average</b> U 0.01 0.02 U 0.10 U 54.95 U U 0.20 U 0.11 95.50 0.13 U 0.20 U 0.11 95.50 0.13 U 0.02 U 10.65 0.00016 25.25 200	units (°C) Ft. Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m

#### Table 15: PA-1 Quarterly Perched Aquifer

DAUB & ASSOCIATES, INC. AT THE CONTRACTOR



Devenue atomo		Llink	Data	1	Data	<b>A</b>	Unite
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry Bicarbonate as CaCO3	Samples	903.00	10/10/0000	41.00	01/30/1997	E17 10	ma/l
	187		12/12/2008			517.10	mg/l
Carbonate as CaCO3	187	566.00	01/30/1997	8.00	11/28/1990	90.41	mg/l
Total Alkalinity as CaCO3	187 27	926.00 3.00	12/12/2008	160.00	10/25/1990	605.82	mg/l
Bromide			06/26/1990	0.05	07/01/1997	0.44	mg/l
Cation-Anion Balance	178	63.40	04/14/2005	-28.80	08/02/2006	0.54	%
Sum of Anions	161	20.10	12/12/2008	11.66	11/28/1990	14.15	meq/l
Sum of Cations	161	67.50	04/14/2005	7.80	08/02/2006	14.43 80.23	meq/l
Chemical Oxygen Demand	24	220.00	09/22/2010	10.00	08/02/2006		mg/l
Chloride	186	118.00	10/22/1989	2.00	04/24/1991	19.38	mg/l
Conductivity, Lab	184	1,760.00	12/12/2008	1,000.00	05/20/1993	1,257.88	µmhos
Fluoride	187	30.00	12/19/1991	1.90	06/26/1991	21.42	mg/l
Hardness as CaCO3	181	375.00	05/21/2018	0.40	10/25/1990	11.10	mg/l
Nitrate as N, dissolved	28	5.76	08/10/2008	0.02	07/18/1995	0.53	mg/l
Nitrate/Nitrite as N,	28	6.26	08/10/2008	0.02	07/18/1995	0.56	mg/l
Nitrite as N, dissolved	28	0.50	08/10/2008	0.01	03/30/1990	0.13	mg/l
Nitrogen, Ammonia	26	3.77	08/10/2008	0.54	06/15/1992	1.30	mg/l
Nitrogen, Organic	26	14.60	09/27/1990	0.10	06/15/1992	4.37	mg/l
Nitrogen, Total Kjeldahl	26	15.40	09/27/1990	0.60	06/15/1992	5.49	mg/l
pH, lab	183	9.70	12/20/1994	8.00	07/18/1995	8.92	units
Phosphate, total	22	155.00	06/25/2007	0.06	07/02/1998	10.79	mg/l
Phosphorus, total	27	0.46	06/26/1990	0.01	08/17/1993	0.08	mg/l
SAR in Water	144	345.00	04/14/2005	0.21	05/21/2018	57.30	none
Sulfate	187	445.00	06/26/1990	2.49	05/21/2018	40.76	mg/l
Sulfide	23	2.40	07/24/2002	0.02	07/15/2004	0.45	mg/l
Total Dissolved Solids	187	2,040.00	04/14/2005	494.00	10/25/1990	785.18	mg/l
Conductivity, Field	233	1,980.00	12/12/2008	620.00	03/16/1994	1,222.92	μmhos
pH, Field	233	10.00	08/22/1991	6.80	03/10/2015	9.08	units
Temperature (°C), Field	113	17.40	07/01/2002	8.10	02/08/2021	12.21	(°C)
Water Level, Field	99	545.20	06/25/2014	463.95	04/01/2003	496.34	Ft.
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples						
Aluminum, dissolved	26	0.70	10/22/1989	0.03	07/01/1997	0.12	mg/l
Arsenic, dissolved	26	0.04	06/26/1991	0.0030	06/15/1992	0.0109	mg/l
Barium, dissolved	26	0.23	07/15/2004	0.01	08/02/2006	0.04	mg/l
Beryllium, dissolved	26	0.01	06/26/1990	U	12/27/1990	U	mg/l
Boron, dissolved	180	1.48	04/14/2005	0.19	08/02/2006	0.37	mg/l
Cadmium, dissolved	26	0.01	06/26/1990	U	12/03/2012	U	mg/l
Calcium, dissolved	179	141.00	05/21/2018	0.30	04/27/2004	2.32	mg/l
Chromium, dissolved	26	0.07	07/30/2003	0.01	06/26/1990	0.04	mg/l
Copper, dissolved	26	0.01	06/26/1990	U	12/03/2012	U	mg/l
Iron, dissolved	26	0.80	10/22/1989	0.01	07/18/1995	0.13	mg/l
Lead, dissolved	26	0.05	10/22/1989	0.02	06/26/1990	0.03	mg/l
Lithium, dissolved	26	0.13	07/15/2004	0.02	06/26/1990	0.05	mg/l
Magnesium, dissolved	179	9.10	12/12/2008	0.20	04/27/2004	1.24	mg/l
Magnesiam, dissolved	25	0.14	07/30/2003	0.01	06/26/1990	0.06	mg/l
Mercury, dissolved	26	0.0006	06/15/1992	0.0001	06/26/1990	U U	mg/l
Molybdenum, dissolved	26	0.13	10/22/1989	0.001	07/12/1996	0.05	mg/l
Nickel, dissolved	26	0.52	07/30/2003	0.02	10/22/1989	0.19	mg/l
Potassium, dissolved	180	12.50	05/21/2018	0.50	06/10/2020	1.36	mg/l
Selenium, dissolved	26	0.009	09/27/1990	0.001	06/26/1990	1.30	mg/l
Selenium, dissolved Silica, dissolved	180	27.70	01/09/2001	2.00	12/10/2019	12.68	
							mg/l
Sodium, dissolved Strontium, dissolved	180 180	<u>1,530.00</u> 1.34	04/14/2005	9.20	05/21/2018	321.91	mg/l
		1.34	12/12/2008	0.03	04/27/2004	0.20	mg/l
				11	00/07/1000	11	m ~ /l
Vanadium, dissolved Zinc, dissolved	26 26	0.01	06/26/1990 07/29/2009	U 0.01	09/27/1990 06/26/1990	U 0.02	mg/l mg/l

#### Table 16: 89-2 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC. 



	NI (		<b>.</b>	•	<b>.</b>	•	
Parameters Wet Chemistry	No. of Samples	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	107	16,300.00	02/24/2020	170.00	06/12/1990	3,545.97	mg/l
Carbonate as CaCO3	107	6,530.00	12/13/2016	9.00	04/27/2004	583.74	mg/l
Total Alkalinity as CaCO3	107	18,700.00	02/24/2020	477.00	04/16/2002	4,099.62	mg/l
Bromide	23	0.10	01/31/1991	0.08	07/31/2009	0.10	mg/l
Cation-Anion Balance	104	30.70	12/13/2016	-14.70	02/27/2017	-0.92	%
Sum of Anions	104	566.00	02/24/2020	11.49	02/24/1992	130.33	meq/l
Sum of Cations	104	516.00	08/17/2021	11.50	09/27/1990	122.23	meg/l
Chemical Oxygen Demand	19	191.00	06/29/2016	10.00	10/22/2002	61.30	mg/l
Chloride	106	6,950.00	08/17/2021	10.00	01/31/1991	1,600.59	mg/l
Conductivity, Lab	105	40,600.00	08/17/2021	1,075.00	01/31/1991	10,539.19	μmhos
Fluoride	107	51.90	02/24/2020	1.40	04/27/2004	19.05	mg/l
Hardness as CaCO3	107	98.00	11/06/2014	4.00	09/09/2015	41.11	mg/l
Nitrate as N, dissolved	23	3.99	01/31/1991	0.02	09/27/1990	0.70	mg/l
Nitrate/Nitrite as N,	23	4.00	01/31/1991	0.02	09/27/1990	0.60	mg/l
Nitrite as N, dissolved	23	0.02	09/27/1990	0.02	01/31/1991	0.02	mg/l
Nitrogen, Ammonia	22	5.10	08/21/2015	0.08	09/27/1990	1.03	mg/l
Nitrogen, Organic	22	2.50	06/29/2016	0.00	01/31/1991	0.53	mg/l
Nitrogen, Total Kjeldahl	22	7.10	06/29/2016	0.04	09/27/1990	1.43	mg/l
pH, lab	105	12.80	01/27/2016	6.30	07/25/2002	8.76	units
Phosphate, total	19	11.00	06/29/2016	0.06	06/28/2007	1.35	mg/l
Phosphorus, total	22	3.40	06/29/2016	0.00	06/28/2007	0.38	mg/l
SAR in Water	102	1,600.00	12/13/2016	25.30	08/04/2008	232.93	none
Sulfate	102	933.00	09/09/2015	10.00	10/04/2011	90.83	mg/l
Sulfide	23	12.00	10/19/2000	0.07	10/22/2002	4.14	mg/l
Total Dissolved Solids	107	29,700.00	08/17/2021	700.00	07/21/1994	6,858.68	mg/l
Conductivity, Field	323	37,620.00	02/24/2020	1,122.70	05/04/2010	4,404.68	μmhos
pH, Field	108	12.50	04/13/2016	7.00	12/11/2018	8.49	units
Temperature (°C), Field	80	24.40	07/28/2011	7.50	03/04/2013	17.70	(°C)
Water Level, Field	26	549.12	10/15/2015	531.00	04/21/2016	538.35	
	20	040.12	10/10/2010	001.00	04/21/2010	000.00	1
Parameters	No. of	High	Date	Low	Date	Average	Units
Parameters Metals	No. of Samples	High	Date	Low	Date	Average	Units
Metals	Samples	<b>High</b> 0.05		<b>Low</b>		<b>Average</b> 0.05	
Metals Aluminum, dissolved		0.05	06/12/1990		06/28/2007		mg/l
Metals	Samples 23	_	06/12/1990 08/21/2015	0.04	06/28/2007 10/26/2004	0.05	mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	Samples 23 23	0.05 0.05	06/12/1990	0.04 0.0008	06/28/2007 10/26/2004 01/31/1991	0.05	mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved	Samples           23           23           23           23	0.05 0.05 1.77	06/12/1990 08/21/2015 11/06/2014	0.04 0.0008 0.02	06/28/2007 10/26/2004	0.05 0.01 0.47	mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	Samples           23           23           23           23           23           23	0.05 0.05 1.77 0.01	06/12/1990 08/21/2015 11/06/2014 06/12/1990	0.04 0.0008 0.02 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990	0.05 0.01 0.47 0.01	mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	Samples           23           23           23           23           107	0.05 0.05 1.77 0.01 18.40 0.01	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990	0.04 0.0008 0.02 0.01 0.25 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990	0.05 0.01 0.47 0.01 3.04	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	Samples 23 23 23 23 23 107 23	0.05 0.05 1.77 0.01 18.40	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021	0.04 0.0008 0.02 0.01 0.25	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	Samples 23 23 23 23 107 23 107 23 105	0.05 0.05 1.77 0.01 18.40 0.01 12.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015	0.04 0.0008 0.02 0.01 0.25 0.01 0.00	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017	0.05 0.01 0.47 0.01 3.04 0.01 4.82	mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	Samples 23 23 23 23 107 23 105 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.01 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 09/27/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	Samples 23 23 23 23 107 23 107 23 105 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.01 0.02 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.02 0.49 19.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.01 0.02 0.02 0.02 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.01 0.23 0.02 0.18	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	Samples 23 23 23 107 23 105 23 23 23 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.02 0.02 0.49	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.01 0.02 0.02 0.02 0.01 2.00	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.02 0.49 19.00 0.08	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 11/06/2014 10/04/2011 10/30/2003	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.02 0.01 2.00 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/22/2010 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnese, dissolved Molybdenum, dissolved	Samples 23 23 23 107 23 105 23 23 23 23 23 23 107 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.0004	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 11/06/2014 10/04/2011 10/30/2003 06/12/1990	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.01 2.00 0.01 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/22/2010 06/12/1990 09/15/2007	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02 0.002 0.002 0.004	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	Samples 23 23 23 107 23 105 23 23 23 23 23 107 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.0004 0.05	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 11/06/2014 11/06/2014 10/04/2011 10/30/2003 06/12/1990	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.02 0.01 2.00 0.01 0.01	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/22/2010 06/12/1990 09/15/2007 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02 0.002	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.0004 0.05 0.02 746.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 11/06/2014 10/04/2011 10/30/2003 06/12/1990 06/12/1990 12/13/2016	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.01 2.00 0.01 0.001 0.02 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/22/2010 06/12/1990 09/15/2007 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02 0.002 0.002 0.04 0.02 28.83	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	Samples 23 23 23 107 23 105 23 23 23 23 23 107 23 23 23 23 23 107 23 23 23 107 23 23 107 23 23 107 23 23 107 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.020 0.49 19.00 0.08 0.004 0.05 0.02 746.00 0.0014	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 10/04/2011 10/30/2003 06/12/1990 06/12/1990 12/13/2016 08/21/2015	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.01 2.00 0.01 0.02 0.01 0.02 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 09/27/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/27/2010 06/12/1990 09/15/2007 06/12/1990 07/18/2000	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02 0.002 0.002 0.04 0.02 28.83 0.0011	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.02 0.49 19.00 0.08 0.004 0.05 0.02 746.00 0.0014 40.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 10/04/2011 10/30/2003 06/12/1990 06/12/1990 12/13/2016 08/21/2015 09/09/2015	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.01 2.00 0.01 0.02 0.01 0.02 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/27/2010 06/12/1990 09/15/2007 06/12/1990 07/18/2000 06/12/1990 07/18/2001	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02 0.002 0.002 0.002 0.04 0.02 28.83 0.0011 12.73	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Chromium, dissolved Chromium, dissolved Lron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	Samples 23 23 23 107 23 105 23 23 23 23 23 107 23 23 23 23 107 23 23 107 23 23 107 23 23 107 23 107 23 107 23 107 23 107 23 105 23 105 23 23 107 23 23 107 23 23 23 23 23 23 107 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.004 0.05 0.02 746.00 0.0014 40.00 11,700.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 10/04/2011 10/30/2003 06/12/1990 06/12/1990 12/13/2016 08/21/2015 09/09/2015 08/17/2021	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.01 2.00 0.01 0.02 0.01 0.02 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 07/18/2000 06/12/1990	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.23 0.02 0.18 7.97 0.02 0.002 0.002 0.04 0.02 28.83 0.0011 12.73 2,710.17	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	Samples 23 23 23 23 107 23 105 23 23 23 23 23 23 23 23 23 23 23 23 23	0.05 0.05 1.77 0.01 18.40 0.01 12.00 0.02 0.01 3.00 0.02 0.49 19.00 0.08 0.02 0.49 19.00 0.08 0.004 0.05 0.02 746.00 0.0014 40.00	06/12/1990 08/21/2015 11/06/2014 06/12/1990 08/17/2021 06/12/1990 08/21/2015 09/28/2006 06/12/1990 08/21/2015 06/12/1990 11/06/2014 10/04/2011 10/30/2003 06/12/1990 06/12/1990 12/13/2016 08/21/2015 09/09/2015	0.04 0.0008 0.02 0.01 0.25 0.01 0.00 0.01 0.02 0.02 0.01 2.00 0.01 0.02 0.01 0.02 0.02	06/28/2007 10/26/2004 01/31/1991 06/12/1990 06/12/1990 05/17/2017 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 06/12/1990 09/27/2010 06/12/1990 09/15/2007 06/12/1990 07/18/2000 06/12/1990 07/18/2001	0.05 0.01 0.47 0.01 3.04 0.01 4.82 0.01 0.01 0.23 0.02 0.18 7.97 0.02 0.002 0.002 0.002 0.04 0.02 28.83 0.0011 12.73	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 17: 90-1 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC. 21 3 A CONTRACTOR



<b></b>	<b>N C</b>		<u> </u>		_ <u> </u>		
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	1 000 00	10/14/0001	45.00	00/00/0000	700.41	···· //
Bicarbonate as CaCO3	127	1,830.00	12/14/2021	45.00	06/26/2002	780.41	mg/l
Carbonate as CaCO3	127	693.00	06/26/2002	10.00	12/16/2003	91.77	mg/l
Total Alkalinity as CaCO3	127	2,510.00	12/14/2021	142.00	09/28/2006	862.02	mg/l
Bromide	30	16.00	06/16/1997	0.29	08/01/1990	5.56	mg/l
Cation-Anion Balance	124	11.90	06/23/2010	-68.80	08/15/2017 08/01/1990	-2.29	%
Sum of Anions Sum of Cations	124	153.40	05/24/1994 02/27/1997	34.16		83.99 80.97	meq/l
Chemical Oxygen Demand	<u>124</u> 22	143.00 840.00	08/16/1994	10.00 10.00	08/15/2017 08/16/1996	192.50	meg/l
Chloride	127		05/24/1994	700.00			mg/l
	127	4,690.00 14,100.00	02/21/1994	309.00	08/01/1990 05/27/2015	2,409.16	mg/l
Conductivity, Lab Fluoride	124	23.70	02/21/1994	5.50	06/14/2008	8,366.13 12.56	µmhos
Hardness as CaCO3	127		02/21/1994	25.00	08/15/2017	85.01	mg/l
Nitrate as N, dissolved	29	204.00	06/26/2002	0.02			mg/l
	29	0.08 0.09	06/16/2011	0.02	06/28/2006 06/28/2006	0.05	mg/l
Nitrate/Nitrite as N, Nitrite as N, dissolved	29	0.09	06/16/2011	0.02	01/29/1991	0.08	mg/l
	29	3.30	08/10/2008	0.01	08/13/1990	1.88	mg/l
Nitrogen, Ammonia Nitrogen, Organic	28				07/21/1990		mg/l mg/l
Nitrogen, Total Kjeldahl	28	<u>10.10</u> 12.10	03/14/2008	0.40		3.39	
	20 124		03/14/2008		06/14/2000	5.03	mg/l
pH, lab	26	9.10		7.70	09/14/2004 08/14/1995	8.57 17.00	units
Phosphate, total		155.00	06/28/2006	0.06			mg/l
Phosphorus, total	28	0.11	08/13/1990	0.02	07/31/1991	0.06	mg/l
SAR in Water	124	4,950.00	06/24/2003	19.00	08/15/2017	130.04	none
Sulfate	126	2,310.00	06/15/2014	4.00	12/16/2004	70.78	mg/l
Sulfide	23	5.80	06/26/2002	0.02	08/10/2008	1.18	mg/l
Total Dissolved Solids	127	8,270.00	02/27/1997	2,110.00	08/15/2017	4,902.59	mg/l
Conductivity, Field	185	13,600.00	11/17/1993	2,900.00	08/01/1990	8,504.50	<u>µmhos</u>
pH, Field	180	9.53	07/29/2009	7.30	10/09/2019	8.54	units
Temperature (°C), Field	128 104	22.10 549.00	07/10/2018	7.40 516.40	12/15/2005 10/01/1990	12.28	(°C)
Water Level, Field	104	549.00	12/14/2021	516.40	10/01/1990	538.32	Ft.
		010100	,, _0				-
Parameters	-						Units
Parameters Metals	No. of	High	Date	Low	Date	Average	Units
Metals	No. of Samples	High	Date	Low	Date	Average	
Metals Aluminum, dissolved	No. of Samples 29	<b>High</b> 0.80	<b>Date</b> 06/16/2005	<b>Low</b>	<b>Date</b> 09/21/2010	Average	mg/l
Metals Aluminum, dissolved Arsenic, dissolved	No. of Samples 29 29	High 0.80 0.05	Date 06/16/2005 01/29/1991	Low 0.03 0.00	Date 09/21/2010 06/28/2006	Average 0.28 0.01	mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	No. of Samples 29 29 29 29	High 0.80 0.05 1.56	Date 06/16/2005 01/29/1991 03/14/2008	Low 0.03 0.00 0.09	Date 09/21/2010 06/28/2006 08/01/1990	Average 0.28 0.01 0.85	mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	No. of Samples 29 29 29 29 29	High 0.80 0.05 1.56 U	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020	Low 0.03 0.00 0.09 U	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020	Average 0.28 0.01 0.85 U	mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	No. of Samples 29 29 29 29 29 29 29 127	High 0.80 0.05 1.56 U 1.29	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992	Low 0.03 0.00 0.09 U 0.10	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996	Average 0.28 0.01 0.85 U 0.33	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	No. of Samples 29 29 29 29 29 29 127 29	High 0.80 0.05 1.56 U 1.29 0.03	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993	Low 0.03 0.00 0.09 U 0.10 0.03	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993	Average 0.28 0.01 0.85 U 0.33 0.03	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	No. of Samples 29 29 29 29 29 127 29 127	High 0.80 0.05 1.56 U 1.29	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004	Low 0.03 0.00 0.09 U 0.10	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996	Average 0.28 0.01 0.85 U 0.33	mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	No. of Samples 29 29 29 29 127 29 127 29 127 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	No. of Samples 29 29 29 29 127 29 127 29 127 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	No. of Samples 29 29 29 29 127 29 127 29 127 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 29 29 29 127 29 127 29 127 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	No. of Samples 29 29 29 127 29 127 29 127 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	No. of Samples 29 29 29 127 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	No. of Samples 29 29 29 127 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 28 127 28	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	No. of Samples 29 29 29 127 29 127 29 127 29 29 29 29 29 29 29 29 29 28 127 28 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	No. of Samples 29 29 29 127 29 127 29 127 29 29 29 29 29 29 29 28 127 28 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	No. of Samples 29 29 29 127 29 127 29 29 29 29 29 29 29 29 28 127 28 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13 U	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	No. of Samples 29 29 29 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U 10.00	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020 07/31/1991	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13 U 1.37	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020 12/14/2020	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U 2.99	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	No. of Samples 29 29 29 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U 10.00 0.003	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020 07/31/1991 01/29/1991	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13 U 1.37 0.001	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020 12/14/2020 08/13/1990	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U 2.99 0.002	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	No. of Samples 29 29 29 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U 10.00 0.03 63.00	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020 07/31/1991 01/29/1991 12/16/2004	Low 0.03 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13 U 1.37 0.001 2.10	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020 12/14/2020 08/13/1990 04/20/1992	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U 2.99 0.002 12.21	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Silica, dissolved	No. of Samples 29 29 29 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U 10.00 0.03 63.00 3,180.00	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020 07/31/1991 01/29/1991 12/16/2004 02/27/1997	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13 U 1.37 0.001 2.10 220.00	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020 12/14/2020 08/13/1990 04/20/1992 08/15/2017	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U 2.99 0.002 12.21 1,857.06	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Silica, dissolved Strontium, dissolved	No. of Samples 29 29 29 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U 10.00 0.03 63.00 3,180.00 8.17	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020 07/31/1991 01/29/1991 12/16/2004 02/27/1997 02/21/1994	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.002 0.13 U 1.37 0.001 2.10 220.00 0.30	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020 12/14/2020 08/13/1990 04/20/1992 08/15/2017 08/15/2017	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U 2.99 0.002 12.21 1,857.06 3.08	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	No. of Samples 29 29 29 29 127 29 127 29 29 29 29 29 29 29 29 29 29 29 29 29	High 0.80 0.05 1.56 U 1.29 0.03 45.00 U 0.08 1.67 U 0.10 37.00 0.15 0.002 0.37 U 10.00 0.03 63.00 3,180.00	Date 06/16/2005 01/29/1991 03/14/2008 05/08/2020 07/21/1992 07/21/1993 12/16/2004 05/08/2020 06/24/2004 10/25/1990 05/08/2020 06/16/1997 02/21/1994 10/25/1990 09/15/2007 08/13/1990 05/08/2020 07/31/1991 01/29/1991 12/16/2004 02/27/1997	Low 0.03 0.00 0.09 U 0.10 0.03 3.00 U 0.08 0.07 U 0.02 3.90 0.01 0.0002 0.13 U 1.37 0.001 2.10 220.00	Date 09/21/2010 06/28/2006 08/01/1990 05/08/2020 11/20/1996 07/21/1993 11/20/1996 05/08/2020 06/24/2004 09/21/2010 05/08/2020 08/13/1990 08/15/2017 09/21/2010 08/14/1995 10/25/1990 05/08/2020 12/14/2020 08/13/1990 04/20/1992 08/15/2017	Average 0.28 0.01 0.85 U 0.33 0.03 10.55 U 0.08 0.39 U 0.04 14.22 0.05 0.0009 0.24 U 2.99 0.002 12.21 1,857.06	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 18: 90-4 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC. AT THE CONTRACTOR



Devenenteve	No. of	Llinda	Data	1	Data	A	L lucito
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	Samples 11	1,410	06/03/2020	198	02/10/2015	654	mg/l
Carbonate as CaCO3	11	273	01/29/2015	53	11/04/2014	194	mg/l
Total Alkalinity as CaCO3	11	1,670	06/03/2020	377	02/10/2015	849	mg/l
Bromide	11	2.38	04/22/2019	0.17	01/29/2015	1.27	mg/l
Cation-Anion Balance	11	0.00	12/15/2015	-6.70	02/10/2015	-3.18	%
Sum of Anions	11	45.00	06/11/2019	15.00	12/15/2015	25.45	meq/l
Sum of Cations	11	42.00	06/11/2019	14.00	02/10/2015	23.73	meg/l
Chemical Oxygen Demand	11	37.00	12/15/2015	10.00	06/11/2019	19.11	mg/l
Chloride	11	435	06/11/2019	92	11/04/2014	210	mg/l
Conductivity, Lab	11	3,800	06/11/2019	1,430	11/04/2014	2,320	μmhos
Fluoride	11	17.50	06/03/2020	5.47	06/19/2018	9.72	mg/l
Hardness as CaCO3	11	80.00	06/11/2019	13.00	06/19/2018	37.12	mg/l
Nitrate as N, dissolved	11	0.02	01/29/2015	U	11/04/2014	U	mg/l
Nitrate/Nitrite as N,	11	0.03	01/29/2015	0.00	11/04/2014	U	mg/l
Nitrite as N, dissolved	11	0.01	01/29/2015	0.00	11/04/2014	0.01	mg/l
Nitrogen, Ammonia	11	1.51	09/28/2017	0.47	04/05/2016	0.84	mg/l
Nitrogen, Organic	11	0.50	01/29/2015	0.10	04/05/2016	0.28	mg/l
Nitrogen, Total Kjeldahl	11	1.90	09/28/2017	0.60	04/05/2016	1.05	mg/l
pH, lab	11	9.70	01/29/2015	8.70	11/04/2014	9.29	units
Phosphate, total	11	1.02	06/03/2020	0.06	06/19/2018	0.38	mg/l
Phosphorus, total	11	0.33	06/03/2020	0.02	06/19/2018	0.12	mg/l
SAR in Water	11	59	06/03/2020	20.00	11/04/2014	39	none
Sulfate	11	210	02/10/2015	27.40	06/03/2020	101	mg/l
Sulfide	11	6.20	06/03/2020	0.04	11/04/2014	2.22	mg/l
Total Dissolved Solids	11	2,400	06/11/2019	843	12/15/2015	1,376	mg/l
Conductivity, Field	9	4,062	04/22/2019	1,432	04/05/2016	2,513	µmhos
pH, Field	9	9.64	06/19/2018	8.44	04/22/2019	8.97	units
Temperature (°C), Field	u u						
	9	22.22	06/19/2018	16.10	11/20/2018	18.53	(°C)
Water Level, Field	9	581.90	09/28/2017	569.40	05/18/2021	575.20	Ft.
Water Level, Field	9	581.90	09/28/2017	569.40	05/18/2021	575.20	Ft.
Water Level, Field Parameters	9 <b>No. of</b>						
Water Level, Field Parameters Metals	9 No. of Samples	581.90 High	09/28/2017 Date	569.40 Low	05/18/2021 Date	575.20 Average	Ft. Units
Water Level, Field Parameters Metals Aluminum, dissolved	9 No. of Samples 11	581.90 <b>High</b> U	09/28/2017 Date 06/03/2020	569.40 Low U	05/18/2021 Date 11/04/2014	575.20 Average	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	9 <b>No. of</b> Samples 11 11	581.90 High U 0.0038	09/28/2017 Date 06/03/2020 11/04/2014	569.40 Low U 0.0004	05/18/2021 Date 11/04/2014 02/10/2015	575.20 Average U 0.0011	Ft. Units mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	9 No. of Samples 11 11 11	581.90 <b>High</b> U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019	569.40 Low U 0.0004 0.01	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015	575.20 Average	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	9 No. of Samples 11 11 11 11	581.90 High U 0.0038 0.41	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020	569.40 Low U 0.0004 0.01 U	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014	575.20 Average U 0.0011 0.12 U	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	9 No. of Samples 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020	569.40 Low U 0.0004 0.01	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015	575.20 Average U 0.0011 0.12	Ft. Units mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	9 No. of Samples 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020	569.40 Low U 0.0004 0.01 U 0.21 U	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	9 No. of Samples 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020	569.40 Low U 0.0004 0.01 U 0.21	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015	575.20 Average U 0.0011 0.12 U 0.49	Ft. Units mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 11/04/2014	569.40 Low U 0.0004 0.01 U 0.21 U 1.30	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016	575.20 Average U 0.0011 0.12 U 0.49 U 3.63	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 11/04/2014 06/03/2020	569.40 Low U 0.0004 0.01 U 0.21 U 1.30 U	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U U U U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 11/04/2014 06/03/2020 06/03/2020	569.40 Low U 0.0004 0.01 U 0.21 U 1.30 U U U U U	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U U U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U U 0.28	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 11/04/2014 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020	569.40 Low U 0.0004 0.01 U 0.21 U 1.30 U U 0.03	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U 0.49 U 3.63 U U U 0.25	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Boron, dissolved         Cadmium, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Iron, dissolved         Lead, dissolved         Lithium, dissolved         Magnesium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U U 0.28 17.10	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 09/28/2017 06/03/2020 06/11/2019	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.03 U 0.12 2.40	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/19/2018	575.20 Average U 0.0011 0.12 U 0.49 U 0.49 U 3.63 U U 0.25 U 0.25 U 0.17 6.80	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U 0.28 17.10 0.08	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.03 U 0.12 2.40 0.01	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.25 U 0.17 6.80 0.03	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Boron, dissolved         Cadmium, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Lead, dissolved         Lithium, dissolved         Magnesium, dissolved         Manganese, dissolved         Mercury, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U 0.28 17.10 0.08 U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/11/2019 06/11/2019 11/04/2014 06/03/2020	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.12 2.40 0.01 U	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.25 U 0.17 6.80 0.03 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U 0.86 U 0.28 17.10 0.08 U 0.19	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/11/2019 06/11/2019 11/04/2014 06/03/2020 06/19/2018	569.40 Low 0.0004 0.01 U 0.21 U 0.21 U 0.03 U 0.03 U 0.12 2.40 0.01 U 0.01 U 0.01 0.01	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U 0.49 U 3.63 U U 0.25 U 0.25 U 0.17 6.80 0.03 U 0.13	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U 0.86 U 0.28 17.10 0.08 U 0.28 17.10 0.08 U 0.19 U	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 06/11/2019 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2020	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.12 2.40 0.01 U 0.06 U	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014	575.20 Average U 0.0011 0.12 U 0.49 U 0.49 U 0.49 U 0.25 U 0.25 U 0.17 6.80 0.03 U 0.13 U	Ft. 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 mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 1.07 U 7.80 U U 0.86 U 0.28 17.10 0.28 17.10 0.28 17.10 0.08 U 0.19 U U 11.30	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 06/11/2019 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2020 06/19/2018	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.12 2.40 0.01 U 0.01 U 0.06 U 1.50	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/11/2019	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U 0.25 U 0.25 U 0.17 6.80 0.03 U 0.13 U 6.23	Ft. 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 mg/l mg/l mg/l mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Beryllium, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Lead, dissolved         Lead, dissolved         Magnesium, dissolved         Marganese, dissolved         Marcury, dissolved         Molybdenum, dissolved         Nickel, dissolved         Potassium, dissolved         Selenium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U U 0.86 U U 0.28 17.10 0.28 17.10 0.28 17.10 0.08 U U 0.19 U 11.30 0.0134	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2021	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.12 2.40 0.01 U 0.01 U 0.06 U 1.50 0.0002	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/11/2019 09/28/2017	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.17 6.80 0.03 U 0.13 U 0.13 U 6.23 0.0005	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Beryllium, dissolved         Cadmium, dissolved         Calcium, dissolved         Calcium, dissolved         Chromium, dissolved         Lead, dissolved         Lead, dissolved         Magnesium, dissolved         Marganese, dissolved         Marcury, dissolved         Molybdenum, dissolved         Nickel, dissolved         Potassium, dissolved         Selenium, dissolved         Selenium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U U 0.86 U U 0.28 17.10 0.08 U 0.28 17.10 0.08 U 0.19 U 0.19 U 11.30 0.0134 13.90	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/11/2019 06/11/2019 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2021 11/04/2014	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.12 2.40 0.01 U 0.01 U 0.06 U 1.50 0.0002 0.20	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2013	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.17 6.80 0.03 U 0.13 U 0.13 U 6.23 0.0005 6.76	Ft. Units mg/l
Water Level, Field           Parameters           Metals           Aluminum, dissolved           Arsenic, dissolved           Barium, dissolved           Beryllium, dissolved           Boron, dissolved           Cadmium, dissolved           Calcium, dissolved           Calcium, dissolved           Chromium, dissolved           Lead, dissolved           Lead, dissolved           Magnesium, dissolved           Marganese, dissolved           Mercury, dissolved           Molybdenum, dissolved           Nickel, dissolved           Selenium, dissolved           Selenium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U U 0.86 U U 0.86 U 0.28 17.10 0.08 U 0.28 17.10 0.08 U 0.19 U 0.19 U 11.30 0.0134 13.90 924	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2021 11/04/2014 05/18/2021 11/04/2014	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.01 U 0.01 U 0.01 U 0.03 U 0.01 0.01 0 0.21 0 0 0 0 0 0 0 0 0 0 0 0 0	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2015 02/10/2015 02/10/2015	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.17 6.80 0.03 U 0.13 U 0.13 U 0.13 U 6.23 0.0005 6.76 514	Ft. Units mg/I
Water Level, Field           Parameters           Metals           Aluminum, dissolved           Arsenic, dissolved           Barium, dissolved           Beryllium, dissolved           Boron, dissolved           Cadmium, dissolved           Calcium, dissolved           Calcium, dissolved           Chromium, dissolved           Lead, dissolved           Lead, dissolved           Magnesium, dissolved           Marganese, dissolved           Molybdenum, dissolved           Nickel, dissolved           Potassium, dissolved           Selenium, dissolved           Sodium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U 0.86 U 0.28 17.10 0.08 U 0.28 17.10 0.08 U 0.19 U 11.30 0.0134 13.90 924 1.93	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2020	569.40 Low U 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.03 U 0.03 U 0.12 2.40 0.01 U 0.06 U 1.50 0.0002 0.20 303 0.23	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2015 02/10/2015 02/10/2015 12/15/2015	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.25 U 0.17 6.80 0.03 U 0.13 U 6.23 0.0005 6.76 514 0.78	Ft. Units mg/l
Water Level, Field           Parameters           Metals           Aluminum, dissolved           Arsenic, dissolved           Barium, dissolved           Beryllium, dissolved           Boron, dissolved           Cadmium, dissolved           Calcium, dissolved           Calcium, dissolved           Chromium, dissolved           Lead, dissolved           Lead, dissolved           Magnesium, dissolved           Marganese, dissolved           Mercury, dissolved           Molybdenum, dissolved           Nickel, dissolved           Selenium, dissolved           Selenium, dissolved	9 No. of Samples 11 11 11 11 11 11 11 11 11 11 11 11 11	581.90 High U 0.0038 0.41 U 1.07 U 7.80 U U 0.86 U U 0.86 U 0.28 17.10 0.08 U 0.28 17.10 0.08 U 0.19 U 0.19 U 11.30 0.0134 13.90 924	09/28/2017 Date 06/03/2020 11/04/2014 04/22/2019 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 06/11/2019 11/04/2014 06/03/2020 06/19/2018 06/03/2020 06/19/2018 06/03/2021 11/04/2014 05/18/2021 11/04/2014	569.40 Low 0.0004 0.01 U 0.21 U 1.30 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.01 U 0.01 U 0.01 U 0.03 U 0.01 0.01 0 0.21 0 0 0 0 0 0 0 0 0 0 0 0 0	05/18/2021 Date 11/04/2014 02/10/2015 12/15/2015 11/04/2014 02/10/2015 11/04/2014 04/05/2016 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/19/2018 04/05/2016 11/04/2014 11/04/2014 11/04/2014 06/19/2015 02/10/2015 02/10/2015	575.20 Average U 0.0011 0.12 U 0.49 U 3.63 U U 0.25 U 0.17 6.80 0.03 U 0.13 U 0.13 U 0.13 U 6.23 0.0005 6.76 514	Ft. Units mg/l

#### Table 19: AG-1 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC.



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	nign	Dale	LOW	Dale	Average	Units
Bicarbonate as CaCO3	4	441	08/17/2021	308	11/12/2021	357	mg/l
Carbonate as CaCO3	4	283	11/12/2021	80	08/17/2021	190	mg/l
Total Alkalinity as CaCO3	4	592	11/12/2021	513	09/03/2021	547	mg/l
Bromide	3	<u> </u>	08/17/2021	U U	09/10/2021	U U	mg/l
Cation-Anion Balance	4	3.20	09/03/2021	-3.00	11/12/2021	0.05	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Sum of Anions	4	17.00	09/10/2021	13.00	08/17/2021	15.50	/o meq/l
Sum of Cations	4	17.00	09/10/2021	13.00	08/17/2021	15.50	mea/l
Chemical Oxygen Demand	3	35.00	09/03/2021	25.00	09/10/2021	29.33	mg/l
Chloride	4	33.00	09/10/2021	16	08/17/2021	29.33	
Conductivity, Lab	4	1,620	11/12/2021	1,220	08/17/2021	1,428	mg/l
	4		09/03/2021	9.31	09/10/2021	9.85	µmhos
Fluoride Hardness as CaCO3		10.40	09/03/2021				mg/l
	4 3	60.00		40.00	09/03/2021	51.50	mg/l
Nitrate as N, dissolved		UH	08/17/2021	UH	09/10/2021	UH	mg/l
Nitrate/Nitrite as N,	3	UH	08/17/2021	UH	09/10/2021	UH	mg/l
Nitrite as N, dissolved	3	UH	08/17/2021	UH	09/10/2021	UH	mg/l
Nitrogen, Ammonia	3	0.91	09/03/2021	0.39	08/17/2021	0.69	mg/l
Nitrogen, Organic	3	0.59	09/10/2021	0.31	09/03/2021	0.46	mg/l
Nitrogen, Total Kjeldahl	3	1.36	09/10/2021	0.88	08/17/2021	1.15	mg/l
pH, lab	4	9.80	09/10/2021	8.90	08/17/2021	9.43	units
Phosphate, total	3	1.45	09/03/2021	0.39	08/17/2021	1.04	mg/l
Phosphorus, total	3	0.47	09/03/2021	0.13	08/17/2021	0.34	mg/l
SAR in Water	4	23	09/03/2021	15.00	08/17/2021	20	none
Sulfate	4	190	11/12/2021	82.60	08/17/2021	155	mg/l
Sulfide	3	2.73	09/10/2021	0.10	08/17/2021	1.55	mg/l
Total Dissolved Solids	4	971	09/10/2021	735	08/17/2021	889	mg/l
Conductivity, Field	7	1,561	09/10/2021	1,020	08/11/2021	1,232	μmhos
pH, Field	7	9.71	09/03/2021	7.44	08/11/2021	8.46	units
Temperature (°C), Field	7	00.40	00/11/0001	10.10		10.00	(00)
$\Gamma$ remperature (°C), rield	7	28.10	08/11/2021	12.40	11/12/2021	19.99	(°C)
Water Level, Field	3	<u>28.10</u> 369.80	08/11/2021	12.40 368.70	09/03/2021	369.13	(°C) Ft.
			11/12/2021				Ft.
Water Level, Field	3	369.80	11/12/2021	368.70	09/03/2021	369.13	Ft.
Water Level, Field Parameters	3 <b>No. of</b>	369.80	11/12/2021	368.70	09/03/2021	369.13	Ft.
Water Level, Field Parameters Metals	3 No. of Samples	369.80 High	11/12/2021 Date	368.70 Low	09/03/2021 Date	369.13 Average	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved	3 No. of Samples 3	369.80 <b>High</b> 0.09	11/12/2021           Date           08/17/2021	368.70 Low 0.09	09/03/2021 Date 08/17/2021	369.13 Average	Ft. Units mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	3 No. of Samples 3 3	369.80 High 0.09 0.45	11/12/2021           Date           08/17/2021           09/10/2021	368.70 Low 0.09 0.06	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021	369.13 Average 0.09 0.23	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	3 No. of Samples 3 3 3	369.80 High 0.09 0.45 0.07	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021	369.13 Average 0.09 0.23 0.05	Ft. Units mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	3 No. of Samples 3 3 3 3 3 4	369.80 High 0.09 0.45 0.07 U	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           09/10/2021           09/10/2021	368.70 Low 0.09 0.06 0.02 U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 08/17/2021	369.13 Average 0.09 0.23 0.05 U	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	3 No. of Samples 3 3 3 3 3 4 3	369.80 High 0.09 0.45 0.07 U 0.26 U	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           09/10/2021           08/17/2021           08/17/2021           09/10/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	3 No. of Samples 3 3 3 3 4 3 4 3 4	369.80 High 0.09 0.45 0.07 U 0.26	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25	09/03/2021 <b>Date</b> 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021	369.13 Average 0.09 0.23 0.05 U 0.25	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	3 No. of Samples 3 3 3 3 4 3 4 3 4 3 4 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 0.25 U 7.52 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	3 No. of Samples 3 3 3 3 4 4 3 4 3 4 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U U	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U U U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U U U U	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	3 No. of Samples 3 3 3 3 4 4 3 4 3 4 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U U 0.30	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U U U 0.17	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U U 0.25	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	3 No. of Samples 3 3 3 3 4 4 3 4 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 11.30 U U 0.30 U	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U U 0.17 U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/03/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U U 0.25 U U 0.25 U U U 0.25 U U U 0.25 U U U 0.25 U U U 0.25 U U U 0.25 U U U 0.25 U U 0.25 U U 0.25 U	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	3 No. of Samples 3 3 3 3 4 4 3 4 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 11.30 U U 0.30 U 0.11	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U U 0.17 U 0.07	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/03/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.21 0.25 0.05 0.23 0.05 0.23 0.05 0.23 0.05 0.23 0.05 0.25 0	Ft.           Units           mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Boron, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Iron, dissolved         Lead, dissolved         Lithium, dissolved         Magnesium, dissolved	3 No. of Samples 3 3 3 3 4 4 3 4 3 3 3 3 3 3 3 3 4	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 11.30 U U 0.30 U 0.11 8.79	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           10/03/2021           11/12/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U U 0.17 U 0.07 6.73	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.23 0.05 0.23 0.05 0.23 0.05 0.23 0.05 0.23 0.05 0.23 0.05 0.23 0.25 0.55 0.55 0.55 0.5	Ft.           Units           mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Boron, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Iron, dissolved         Lead, dissolved         Lithium, dissolved         Magnesium, dissolved	3 No. of Samples 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 4 3 3 3 4 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U U 0.30 U 0.30 U 0.11 8.79 0.058	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U U 0.17 U 0.17 U 0.07 6.73 U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/03/2021 09/03/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.	Ft.           Units           mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Beryllium, dissolved         Cadmium, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Iron, dissolved         Lead, dissolved         Lithium, dissolved         Magnesium, dissolved         Manganese, dissolved	3 No. of Samples 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 4 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 11.30 U U 0.30 U 0.30 U 0.11 8.79 0.058 U	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.10 7.88 0.05 U 0.05 U	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	3 No. of Samples 3 3 3 3 4 4 3 3 3 3 3 3 3 3 4 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U U 0.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U 0.22	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/03/2021 09/03/2021 09/03/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U 0.55 U	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	3 No. of Samples 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U 0.22 U U	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 0.10 7.88 0.05 U 0.50 U 0.50 U 0.55 U	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	3 No. of Samples 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U 30.30	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           09/10/2021           08/17/2021           09/10/2021           08/17/2021           09/10/2021           08/17/2021           09/03/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U 0.22 U 1.24	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.50 U 0.25 U 0.25 U 0.50 U 0.25 U	Ft.           Units           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	3 No. of Samples 3 3 3 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U 30.30 0.0028	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U 0.22 U 1.24 0.00025	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.50 U 0.20 0.10 0.50 U 0.20 0.10 0.50 U 0.00119 0.00119 0.00119	Ft.           mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	3 No. of Samples 3 3 3 4 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U 30.30 0.0028 13.40	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U 0.22 U 1.24 0.00025 6.40	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.261 0.00119 9.03	Ft.           Units           mg/l           mg/l
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Beryllium, dissolved         Cadmium, dissolved         Cadmium, dissolved         Cadmium, dissolved         Chromium, dissolved         Copper, dissolved         Lead, dissolved         Lead, dissolved         Magnesium, dissolved         Magnesium, dissolved         Molybdenum, dissolved         Nickel, dissolved         Potassium, dissolved         Selenium, dissolved         Selenium, dissolved	3 No. of Samples 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U 30.30 0.0028 13.40 342	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U 0.07 6.73 U 0.22 U 1.24 0.00025 6.40 271	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.261 0.00119 9.03 316	Ft.           mg/l           mg/l     <
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Silica, dissolved Strontium, dissolved	3 No. of Samples 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U 30.30 0.0028 13.40 342 1.07	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021           09/03/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U U 0.22 U 1.24 0.00025 6.40 271 0.77	09/03/2021  Date  08/17/2021 08/17/2021 08/17/2021 09/10/2021 00/10/2021 00/1	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.50 U 0.20 0.25 U 0.25 U 0.50 0.50 0.316 0.9119 9.03 316 0.911	Ft.           mg/l           mg/l     <
Water Level, Field         Parameters         Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Beryllium, dissolved         Cadmium, dissolved         Cadmium, dissolved         Cadmium, dissolved         Chromium, dissolved         Copper, dissolved         Lead, dissolved         Lead, dissolved         Magnesium, dissolved         Magnesium, dissolved         Molybdenum, dissolved         Nickel, dissolved         Potassium, dissolved         Selenium, dissolved         Selenium, dissolved	3 No. of Samples 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3	369.80 High 0.09 0.45 0.07 U 0.26 U 11.30 U 0.30 U 0.30 U 0.11 8.79 0.058 U 0.69 U 30.30 0.0028 13.40 342	11/12/2021           Date           08/17/2021           09/10/2021           09/10/2021           08/17/2021	368.70 Low 0.09 0.06 0.02 U 0.25 U 4.84 U 0.17 U 0.17 U 0.07 6.73 U 0.07 6.73 U 0.22 U 1.24 0.00025 6.40 271	09/03/2021 Date 08/17/2021 08/17/2021 08/17/2021 09/10/2021	369.13 Average 0.09 0.23 0.05 U 0.25 U 7.52 U 0.25 U 0.261 0.00119 9.03 316	Ft.           mg/l           mg/l     <

#### Table 20: AG-2 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC. AT THE CONTRACTOR



Devenetere	No of	Link	Data	1.000	Data	Average	Linite
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	Samples 60	1,250.00	03/22/1993	34.00	09/08/1993	277.59	mg/l
Carbonate as CaCO3	60	870.00	03/22/1993	24.00	06/30/2009	259.68	mg/l
Total Alkalinity as CaCO3	60	2,120.00	03/22/1993	176.00	06/14/2008	494.27	mg/l
Bromide	31	2.70	11/29/2011	0.07	05/26/2000	0.62	mg/l
Cation-Anion Balance	58	13.30	11/06/2014	-9.10	03/22/2016	1.84	<u>%</u>
Sum of Anions	58	19.49	09/16/1991	9.50	05/29/2003	13.20	 meq/l
Sum of Cations	58	18.34	09/16/1991	9.50	05/26/2004	13.77	meg/l
Chemical Oxygen Demand	29	1,300.00	05/29/2002	15.00	03/27/2018	433.56	mg/l
Chloride	60	252.00	06/14/2008	21.00	12/20/1993	113.08	mg/l
Conductivity, Lab	59	3,320.00	09/15/1992	1,010.0	05/29/2003	1,515.4	μmhos
Fluoride	60	27.00	12/19/1995	2.20	09/15/1992	9.24	mg/l
Hardness as CaCO3	60	962.00	03/22/1993	0.00	01/19/1994	33.89	mg/l
Nitrate as N, dissolved	31	3.89	06/14/2008	0.02	09/15/1992	0.43	mg/l
Nitrate/Nitrite as N,	31	3.90	06/14/2008	0.02	09/15/1992	0.33	mg/l
Nitrite as N, dissolved	31	0.05	11/06/2014	0.01	06/18/1996	0.02	mg/l
Nitrogen, Ammonia	31	21.30	09/08/1993	0.34	08/23/2017	3.62	mg/l
Nitrogen, Organic	31	104.00	05/29/2002	0.20	08/23/2017	17.23	mg/l
Nitrogen, Total Kjeldahl	31	106.00	05/29/2002	0.40	04/22/2019	19.28	mg/l
pH, lab	59	11.90	06/16/1992	8.60	06/30/2009	10.18	units
Phosphate, total	31	155.00	07/29/2009	0.03	05/26/1999	6.50	mg/l
Phosphorus, total	31	2.95	09/27/1990	0.01	05/26/1999	0.24	mg/l
SAR in Water	51	190.00	11/14/1997	3.83	03/25/1992	64.43	none
Sulfate	60	360.00	09/16/1991	0.80	02/26/1997	31.18	mg/l
Sulfide	31	29.00	03/22/2016	0.02	09/15/1992	4.48	mg/l
Total Dissolved Solids	59	2,752.00	03/22/1993	578.00	09/27/1990	847.31	mg/l
Conductivity, Field	78	3,910.00	07/29/2009	694.00	06/01/2005	1,578.4	μmhos
							μιιιίου
	1					10.64	units
pH, Field	77	12.90	09/13/1995	7.78	09/16/2019	10.64	units (°C)
pH, Field Temperature (°C), Field	77 38	12.90 22.50	09/13/1995 06/01/2005	7.78 7.00	09/16/2019 07/01/1991	12.45	units (°C) Ft.
pH, Field	77	12.90	09/13/1995	7.78	09/16/2019		(°C)
pH, Field Temperature (°C), Field	77 38	12.90 22.50 487.40	09/13/1995 06/01/2005	7.78 7.00	09/16/2019 07/01/1991	12.45	(°C)
pH, Field Temperature (°C), Field Water Level, Field	77 38 62	12.90 22.50	09/13/1995 06/01/2005 03/08/2021	7.78 7.00 409.63	09/16/2019 07/01/1991 11/01/1990	12.45 432.77	(°C) Ft.
pH, Field Temperature (°C), Field Water Level, Field Parameters	77 38 62 <b>No. of</b>	12.90 22.50 487.40	09/13/1995 06/01/2005 03/08/2021	7.78 7.00 409.63	09/16/2019 07/01/1991 11/01/1990	12.45 432.77	(°C) Ft.
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals	77 38 62 No. of Samples	12.90 22.50 487.40 High	09/13/1995 06/01/2005 03/08/2021 Date	7.78 7.00 409.63 Low	09/16/2019 07/01/1991 11/01/1990 Date	12.45 432.77 Average	(°C) Ft. Units
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	77 38 62 No. of Samples 31	12.90 22.50 487.40 High 1.35	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009	7.78 7.00 409.63 Low	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017	12.45 432.77 <b>Average</b> 0.22	(°C) Ft. <b>Units</b> mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	77 38 62 <b>No. of</b> <b>Samples</b> 31 31	12.90 22.50 487.40 High 1.35 0.0095	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019	12.45 432.77 Average 0.22 0.003	(°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	77 38 62 <b>No. of</b> <b>Samples</b> 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993	12.45 432.77 <b>Average</b> 0.22 0.003 0.05	(°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	77 38 62 <b>No. of</b> <b>Samples</b> 31 31 31 31 60 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U	(°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	77 38 62 No. of Samples 31 31 31 31 60 31 60 31 60	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22	(°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U	(°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U 4.16 0.01 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U 4.16 0.01 0.03 3.12	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/30/1995 06/23/1994	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U 4.16 0.01 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/30/1995 06/23/1994 03/08/2021	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Barium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31 31 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 60 31 60 31 60 31 31 60 31 31 60 31 31 60 31 31 60 31 31 60 60 31 31 60 31 31 60 31 31 60 31 31 60 60 31 31 60 60 31 60 31 60 60 31 60 60 60 60 60 60 60 60 60 60	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/30/1995 06/23/1994 03/08/2021 05/24/2005	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U 4.16 0.01 0.03 3.12 0.14	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/30/1995 06/23/1994 03/08/2021	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.59 0.0007	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 11/06/2014 07/30/1991	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.01 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/30/1995 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.06 0.0004	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.59 0.0007 0.13	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.06 0.0004 0.05	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005 09/15/1992	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.02 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2001 03/22/2016	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.06 0.0004 0.05 0.01	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03 39.00	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005 09/15/1992 03/22/1993	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.02 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2001 03/22/2016 03/08/2021	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.06 0.0004 0.005 0.01 5.89	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	77 38 62 No. of Samples 31 31 31 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03 39.00 0.001	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 11/06/2014 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005 09/15/1992 03/22/1993 07/30/1991	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.02 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2011 03/22/2016 03/08/2021 03/27/2018	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.07 1.41 0.06 0.0004 0.0004 0.05 0.01 5.89 0.0008	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03 39.00 0.001 44.60	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005 09/15/1992 03/22/1993 07/30/1991 06/16/1992	7.78 7.00 409.63 Low 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.02 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2001 03/22/2016 03/08/2021 03/27/2018 03/09/2020	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.07 1.41 0.07 1.41 0.06 0.0004 0.0004 0.05 0.01 5.89 0.0008 15.89	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03 39.00 0.001 44.60 567.00	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005 09/15/1992 03/22/1993 07/30/1991 06/16/1992 03/22/1993	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2011 03/22/2016 03/08/2021 03/27/2018 03/09/2020 03/25/1992	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.07 1.41 0.07 1.41 0.06 0.0004 0.0004 0.05 0.01 5.89 0.0008 15.89 303.55	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03 39.00 0.001 44.60 567.00 5.10	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 09/27/1990 11/06/2014 09/27/1990 09/27/1990 09/27/1990 09/27/1990 09/27/1990 09/27/1990 09/27/1990 09/27/1990 03/22/1993 03/22/1993 03/22/1993	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2011 03/22/2016 03/08/2021 03/27/2018 03/09/2020 03/25/1992 04/21/1994	12.45 432.77 Average 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.07 1.41 0.07 1.41 0.06 0.0004 0.005 0.01 5.89 0.0008 15.89 303.55 0.32	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	77 38 62 No. of Samples 31 31 31 60 31 60 31 31 31 31 31 31 31 31 31 31	12.90 22.50 487.40 High 1.35 0.0095 0.20 U 0.47 U 27.50 0.02 0.04 65.10 0.63 0.17 5.00 0.63 0.17 5.00 0.59 0.0007 0.13 0.03 39.00 0.001 44.60 567.00	09/13/1995 06/01/2005 03/08/2021 <b>Date</b> 11/06/2014 08/23/2017 07/29/2009 09/27/1990 12/20/1993 09/27/1990 06/30/2009 11/06/2014 07/29/2009 11/06/2014 09/15/2010 09/27/1990 09/27/1990 09/27/1990 11/06/2014 07/30/1991 05/24/2005 09/15/1992 03/22/1993 07/30/1991 06/16/1992 03/22/1993	7.78 7.00 409.63 <b>Low</b> 0.03 0.0004 0.00 U 0.04 U 0.20 0.01 0.01 0.01 0.02 0.02 0.02 0.02	09/16/2019 07/01/1991 11/01/1990 <b>Date</b> 08/23/2017 04/22/2019 09/08/1993 06/18/1995 03/09/2020 06/18/1996 11/14/1997 06/23/1994 07/30/1991 06/23/1994 03/08/2021 05/24/2005 07/29/2009 09/27/1990 05/09/2011 03/22/2016 03/08/2021 03/27/2018 03/09/2020 03/25/1992	12.45 432.77 <b>Average</b> 0.22 0.003 0.05 U 0.22 U 4.16 0.01 0.03 3.12 0.14 0.07 1.41 0.07 1.41 0.07 1.41 0.07 1.41 0.06 0.0004 0.0004 0.05 0.01 5.89 0.0008 15.89 303.55	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 21: IRI-4 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC. 2019 Jan Contraction of the Contraction



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	riigii	Date	LOW	Dale	Average	Units
Bicarbonate as CaCO3	Janpies	528.00	10/05/2014	528.00	10/05/2014	528.00	mg/l
Carbonate as CaCO3	1	51.40	10/05/2014	51.40	10/05/2014	51.40	mg/l
Total Alkalinity as CaCO3	1	579.00	10/05/2014	579.00	10/05/2014	579.00	mg/l
Bromide	1	U 579.00	10/05/2014	U U	10/05/2014	U U	mg/l
Cation-Anion Balance	1	-3.70	10/05/2014	-3.70	10/05/2014	-3.70	- mg/i %
Sum of Anions	1	14.00	10/05/2014	14.00	10/05/2014	14.00	 meq/l
Sum of Cations	1	13.00	10/05/2014	13.00	10/05/2014	13.00	meq/l
Chemical Oxygen Demand	1	U	10/05/2014	13.00 U	10/05/2014	13.00 U	mg/l
Chloride	1	18.60	10/05/2014	18.60	10/05/2014	18.60	mg/l
Conductivity, Lab	1	1,270.00	10/05/2014	1,270.00	10/05/2014	1,270.00	µmhos
Fluoride	1	16.40	10/05/2014	16.40	10/05/2014	16.40	mg/l
Hardness as CaCO3	1	46.00	10/05/2014	46.00	10/05/2014	46.00	mg/l
Nitrate as N, dissolved	1	40.00 U	10/05/2014	40.00 U	10/05/2014	40.00 U	mg/l
	1	U	10/05/2014	U	10/05/2014	U	mg/l
Nitrate/Nitrite as N,	1	U		U	10/05/2014	U	
Nitrite as N, dissolved Nitrogen, Ammonia	1	-	10/05/2014 10/05/2014	-	10/05/2014	0.40	mg/l
	1	0.40		0.40			mg/l
Nitrogen, Organic	1	0.30	10/05/2014	0.30	10/05/2014	0.30	mg/l
Nitrogen, Total Kjeldahl	1	0.70	10/05/2014	0.70	10/05/2014	0.70	mg/l
pH, lab	•	8.60	10/05/2014	8.60	10/05/2014	8.60	units
Phosphate, total	1	0.06	10/05/2014	0.06	10/05/2014	0.06	mg/l
Phosphorus, total	1	0.02	10/05/2014	0.02	10/05/2014	0.02	mg/l
SAR in Water	1	17.00	10/05/2014	17.00	10/05/2014	17.00	none
Sulfate	1	60.00	10/05/2014	60.00	10/05/2014	60.00	mg/l
Sulfide	1	0.03	10/05/2014	0.03	10/05/2014	0.03	mg/l
Total Dissolved Solids	1	746.00	10/05/2014	746.00	10/05/2014	746.00	mg/l
Conductivity, Field	0	N/A	N/A	N/A	N/A	N/A	<u>µmhos</u>
pH, Field	0	N/A	N/A	N/A	N/A	N/A	units
Temperature (°C), Field	0	N/A	N/A	N/A	N/A	N/A	(°C)
Temperature (°C), Field Water Level, Field	0 0	N/A N/A	N/A N/A	N/A N/A	N/A N/A	N/A N/A	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	0 0 <b>No. of</b>	N/A	N/A	N/A	N/A	N/A	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	0 0	N/A N/A High	N/A N/A Date	N/A N/A	N/A N/A Date	N/A N/A Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	0 0 No. of Samples	N/A N/A High	N/A N/A <b>Date</b> 10/05/2014	N/A N/A Low	N/A N/A <b>Date</b> 10/05/2014	N/A N/A Average	(°C) Ft. Units mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	0 0 <b>No. of</b> Samples 1 1	N/A N/A High U 0.02	N/A N/A Date 10/05/2014 10/05/2014	N/A N/A Low U 0.02	N/A N/A Date 10/05/2014 10/05/2014	N/A N/A Average U 0.02	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1	N/A N/A High U 0.02 0.13	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014	N/A N/A Low U 0.02 U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1	N/A N/A High U 0.02 0.13 U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Low U 0.02 U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Low U 0.02 U U U 0.25	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U 0.25 U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U 0.25 U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U 0.25 U U U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U 0.25 U U U U U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	0 0 <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U U U 0.12	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U 0.12	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U U U U U U U U 0.12	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U U U 0.12 7.40	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U U U U U U U U 0.12 7.40	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U U 0.12 7.40 0.01	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U U U U U U U U U 0.12 7.40 0.01	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U U U 0.12 7.40 0.01 U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U U U 0.12 7.40 0.01 U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U U U 0.12 7.40 0.01 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U U U 0.12 7.40 0.01 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U U U U U U U U 0.12 7.40 0.01 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A N/A U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.02 0.13 U 0.02 0.13 U 0.02 0.02 0.02 0.13 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U 0.25 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.02 0.13 U 0.02 0.13 U 0.02 0.13 U 0.02 0.13 U 0.02 0.13 U 0.02 0.13 U 0.02 0.13 U 0.02 0.02 U 0.13 U 0.02 0.02 U 0.13 U 0.25 U 0.12 U 0.12 U 0.12 U 0.12 U 0.12 U 0.12 U 0.13 U 0.25 U 0.12 U 0.112 U 0.112 U 0.112 U 0.112 U 0.112 U 0.1110 U 0.111 U 0 U 0.1110 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A High U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U 0.12 7.40 0.01 U U U U U U U U 1.30 U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Selenium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A N/A U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A N/A U U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U 0.25 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A N/A Average U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U U U U 0.12 7.40 0.01 U U U U U U U U 1.30 U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A N/A U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.13 U 0.25 U 0.13 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.02 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.13 U 0.25 U 0.12 0.13 U 0.25 U 0.12 0.13 U 0.25 U 0.13 U 0.12 0.13 U 0.25 U 0.13 U 0.12 0.13 U 0.12 0.13 U 0.12 0.12 0.13 U 0.12 0.13 U 0.12 0.12 0.12 0.13 U 0.12 0.12 0.12 0.13 0.12 0.12 0.12 0.12 0.12 0.13 0.12 0.12 0.12 0.12 0.12 0.12 0.12 0.12	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U 0.25 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	0 0 <b>No. of</b> <b>Samples</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N/A N/A N/A U U 0.02 0.13 U 0.25 U 0.25 U 6.00 U U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.13 U 0.25 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.13 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A U U 0.02 U U 0.25 U U U U U U U U U U U U U U U U U U U	N/A N/A N/A Date 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014 10/05/2014	N/A N/A N/A Average U 0.02 0.13 U 0.25 U 6.00 U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 22: O-GMW-A Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC.



	No of	Llink	Dete	Low	Data	A	Linite
Parameters Wet Chemistry	No. of Samples	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	55	3,860.00	04/13/2020	192.00	06/16/2014	1,645.7	mg/l
Carbonate as CaCO3	54	636.00	03/03/2021	42.60	11/10/2014	153.59	mg/l
Total Alkalinity as CaCO3	55	4,100.00	04/13/2020		06/16/2014	1,797.2	mg/l
Bromide	5	0.46	07/11/2013	0.03	10/04/2011	0.18	mg/l
Cation-Anion Balance	53	3.40	06/16/2014	-13.40	06/14/2011	-3.14	%
Sum of Anions	54	135.00	07/03/2019	13.70	10/04/2011	52.39	meq/l
Sum of Cations	54	125.00	07/03/2019	12.60	06/14/2011	48.79	meg/l
Chemical Oxygen Demand	10	91.00	04/07/2021	10.00	01/20/2011	27.00	mg/l
Chloride	54	1,910.00	07/03/2019	11.00	06/14/2011	546.83	mg/l
Conductivity, Lab	55	10,700	11/08/2021	1,250	10/04/2011	4,552	μmhos
Fluoride	54	28.10	11/14/2018	13.80	09/17/2012	20.29	mg/l
Hardness as CaCO3	54	72.00	01/24/2018	14.00	11/30/2011	32.91	mg/l
Nitrate as N, dissolved	3	0.10	11/10/2014	0.02	04/07/2021	0.06	mg/l
Nitrate/Nitrite as N,	3	0.10	11/10/2014	0.02	04/07/2021	0.06	mg/l
Nitrite as N, dissolved	13	U	04/13/2020	U	04/13/2020	U	mg/l
Nitrogen, Ammonia	14	2.08	04/13/2020	0.39	10/04/2011	0.96	mg/l
Nitrogen, Organic	12	0.90	04/03/2019	0.10	03/23/2011	0.31	mg/l
Nitrogen, Total Kjeldahl	14	2.50	04/03/2019	0.60	03/30/2011	1.23	mg/l
pH, lab	55	8.90	03/16/2014	8.50	05/14/2018	8.68	units
Phosphate, total	14	2.51	04/07/2021	0.09	03/23/2011	0.66	mg/l
Phosphorus, total	14	0.81	04/07/2021	0.03	03/23/2011	0.21	mg/l
SAR in Water	54	160.00	07/03/2019	31.30	06/14/2011	76.18	none
Sulfate	48	156.00	09/11/2019	5.41	07/17/2018	36.42	mg/l
Sulfide	14	3.90	10/04/2011	1.41	01/24/2018	2.48	mg/l
Total Dissolved Solids	54	7,230.00	07/03/2019		11/30/2011	2,791.5	mg/l
Conductivity, Field	126	11,420	01/27/2021	719	03/23/2011	4,558	µmhos
pH, Field	98	9.10	06/15/2020	7.30	05/28/2015	8.27	units
Temperature (°C), Field	98	25.00	07/13/2016	16.35	05/17/2016	21.85	(°C)
Water Level, Field	N/A	N/A	N/A	N/A	N/A	N/A	Ft.
<b>—</b> ·					<b>—</b> •		
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples						
Metals Aluminum, dissolved	Samples 14	0.05	03/23/2011	0.03	11/05/2015	0.04	mg/l
Metals Aluminum, dissolved Arsenic, dissolved	Samples 14 14	0.05	03/23/2011 03/23/2017	0.03	11/05/2015 11/05/2015	0.04	mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	Samples           14           14           14           14	0.05 0.00 1.53	03/23/2011 03/23/2017 04/03/2019	0.03 0.00 0.03	11/05/2015 11/05/2015 01/24/2018	0.04 0.00 0.38	mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	Samples           14           14           14           14           14           14	0.05 0.00 1.53 0.00	03/23/2011 03/23/2017 04/03/2019 01/20/2011	0.03 0.00 0.03 0.00	11/05/2015 11/05/2015 01/24/2018 01/20/2011	0.04 0.00 0.38 0.00	mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	Samples 14 14 14 14 14 54	0.05 0.00 1.53 0.00 2.80	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019	0.03 0.00 0.03 0.00 0.36	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011	0.04 0.00 0.38 0.00 1.20	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	Samples           14           14           14           14           54           14	0.05 0.00 1.53 0.00 2.80 U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020	0.03 0.00 0.03 0.00 0.36 U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020	0.04 0.00 0.38 0.00 1.20 U	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	Samples           14           14           14           54           14	0.05 0.00 1.53 0.00 2.80 U 14.10	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018	0.03 0.00 0.03 0.00 0.36 U 1.70	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019	0.04 0.00 0.38 0.00 1.20 U 3.17	mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	Samples           14           14           14           54           14           54           14           54           14	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016	0.03 0.00 0.03 0.00 0.36 U 1.70 0.02	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016	0.04 0.00 0.38 0.00 1.20 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020	0.03 0.00 0.03 0.00 0.36 U 1.70 0.02 U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           54           14           54           14           54	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019	0.03 0.00 0.03 0.00 0.36 U 1.70 0.02 U 0.05	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           54           14           54           14           14           14           14           14           14	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020	0.03 0.00 0.03 0.00 0.36 U 1.70 0.02 U 0.05 U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           14           14           14           14           14           14           14           14           14           14           14           14	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 1.30 U 0.24	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/07/2021	0.03 0.00 0.03 0.00 0.36 U 1.70 0.02 U 0.05 U 0.05	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 01/20/2011	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.11	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           54           14           54           14           54	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 1.30 U 0.24 13.00	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/07/2021 04/10/2018	0.03 0.00 0.03 0.00 0.36 U 1.70 0.02 U 0.05 U 0.05 U 0.06 2.00	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 01/20/2011	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.26 U 0.11 6.08	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           54           14           54           14           14           54           14           14           14           54           14	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/07/2021 04/10/2018 04/03/2019	0.03 0.00 0.03 0.36 U 1.70 0.02 U 0.05 U 0.05 U 0.06 2.00 0.01	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 01/20/2011 01/20/2011 03/23/2011	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.26 U 0.11 6.08 0.02	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	Samples 14 14 14 14 54 14 54 14 14 14 14 54 14 14 54 14 14 14 14 14 14 14 14 14 1	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020	0.03 0.00 0.03 0.36 U 1.70 0.02 U 0.05 U 0.05 U 0.06 2.00 0.01 U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 01/20/2011 03/23/2011 04/13/2020	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.26 U 0.11 6.08 0.02 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnese, dissolved Molybdenum, dissolved	Samples 14 14 14 14 54 14 54 14 14 14 14 54 14 14 54 14 14 14 14 14 14 14 14 14 1	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021 04/10/2018 04/03/2019 04/13/2020 04/13/2020	0.03 0.00 0.03 0.36 U 1.70 0.02 U 0.05 U 0.05 U 0.06 2.00 0.01 U U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 01/20/2011 03/23/2011 04/13/2020 04/13/2020	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.26 U 0.11 6.08 0.02 U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	Samples 14 14 14 14 54 14 54 14 14 14 14 54 14 14 14 14 14 14 14 14 14 1	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U 0.02	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/13/2020 04/13/2020 04/13/2020	0.03 0.00 0.03 0.36 U 1.70 0.02 U 0.05 U 0.06 2.00 0.01 U U 0.01	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 01/20/2011 01/20/2011 03/23/2011 04/13/2020 04/13/2020 03/23/2011	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.11 6.08 0.02 U U 0.02	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Potassium, dissolved	Samples 14 14 14 14 54 14 54 14 14 14 14 54 14 14 14 14 14 14 54 14 54 14 54 54 54 54 54 54 54 54 54 5	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/13/2020 04/13/2020 04/13/2020	0.03 0.00 0.03 0.36 U 1.70 0.02 U 0.05 U 0.05 U 0.06 2.00 0.01 U U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 01/20/2011 01/20/2011 01/20/2011 03/23/2011 04/13/2020 04/13/2020 03/23/2011 11/01/2012	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.26 U 0.11 6.08 0.02 U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Potassium, dissolved Selenium, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           14           14           14           14           14           14           54           14           54           14           54           14           54           14           54           14           54           14	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U 0.05 U U 0.02 7.00 U	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/13/2020 04/13/2020 04/13/2020	0.03 0.00 0.03 0.36 U 1.70 0.02 U 0.05 U 0.06 2.00 0.01 U U U 0.01 0.40 U	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 01/20/2011 04/13/2020 04/13/2020 03/23/2011 11/01/2012 04/13/2020	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.11 6.08 0.02 U U U 0.02 1.45 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Marganese, dissolved Marganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           14           14           14           14           14           54           14           54           14           54           14           54           14           54	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U 0.05 U U 0.02 7.00 U 12.80	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/13/2020 11/05/2015	0.03 0.00 0.33 0.00 0.36 U 1.70 0.02 U 0.05 U 0.06 2.00 0.01 U U U 0.01 0.40 U 9.00	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 04/13/2020 03/23/2011 11/01/2012 04/13/2020 01/24/2018	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.11 6.08 0.02 U U U 0.02 1.45 U 11.49	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnese, dissolved Marganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           14           14           14           14           14           54           14           54           14           54           14           54           14           54           54           54           54	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U 0.24 13.00 0.05 U U 0.02 7.00 U U 0.02 7.00 U 12.80 2,800.00	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/13/2020 04/13/2020 07/11/2013 02/11/2020 04/13/2020 11/05/2015 07/03/2019	0.03 0.00 0.33 0.00 0.36 U 1.70 0.02 U 0.05 U 0.06 2.00 0.01 U U U 0.01 0.40 U 9.00 279.00	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 03/23/2011 04/13/2020 03/23/2011 11/01/2012 04/13/2020 01/24/2018 06/14/2011	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.11 6.08 0.02 U U U 0.02 1.45 U 11.49 1,091.5	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Marganese, dissolved Marganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	Samples           14           14           14           14           54           14           54           14           54           14           54           14           54           14           14           14           14           14           14           54           14           54           14           54           14           54           14           54	0.05 0.00 1.53 0.00 2.80 U 14.10 0.02 U 1.30 U 0.24 13.00 0.05 U U 0.05 U U 0.02 7.00 U 12.80	03/23/2011 03/23/2017 04/03/2019 01/20/2011 07/03/2019 04/13/2020 01/24/2018 04/06/2016 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/13/2020 11/05/2015	0.03 0.00 0.33 0.00 0.36 U 1.70 0.02 U 0.05 U 0.06 2.00 0.01 U U U 0.01 0.40 U 9.00	11/05/2015 11/05/2015 01/24/2018 01/20/2011 10/04/2011 04/13/2020 05/14/2019 04/06/2016 04/13/2020 03/23/2011 04/13/2020 04/13/2020 03/23/2011 11/01/2012 04/13/2020 01/24/2018	0.04 0.00 0.38 0.00 1.20 U 3.17 0.02 U 0.26 U 0.11 6.08 0.02 U U U 0.02 1.45 U 11.49	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 23: WSW-2 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC. 201 Star Contraction



					<b>.</b>		
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	529.00	08/22/2014	459.00	07/17/2018	488.48	ma/l
Bicarbonate as CaCO3 Carbonate as CaCO3	33 33	<u> </u>	04/03/2019	26.70	04/06/2016	<u>400.40</u> 54.69	mg/l mg/l
Total Alkalinity as CaCO3	33	578.00	11/05/2015		03/03/2021	<u> </u>	mg/l
Bromide	8	1.54	03/23/2017	0.10	08/22/2014	0.97	mg/l
Cation-Anion Balance	33	13.30	01/24/2018	-7.70	07/08/2020	-1.39	111 <u>9</u> /1 %
Sum of Anions	33	14.00	04/03/2019	12.00	10/18/2016	13.06	/o meq/l
Sum of Cations	33	17.00	01/24/2018	12.00	08/22/2014	12.73	meq/l
Chemical Oxygen Demand	8	196.00	04/06/2016	22.00	08/22/2014	109.00	mg/l
Chloride	33	22.00	11/08/2021	11.60	08/27/2015	14.55	mg/l
Conductivity, Lab	33	1,260	10/05/2020	1,100	08/16/2016	1,180	μmhos
Fluoride	33	19.80	08/22/2014	15.70	08/10/2021	18.24	mg/l
Hardness as CaCO3	33	238.00	01/24/2018	12.00	06/27/2017	20.07	mg/l
Nitrate as N, dissolved	8	0.09	08/22/2014	<u>12.00</u> U	04/13/2020	<u></u> UH	mg/l
Nitrate/Nitrite as N,	8	0.03	08/22/2014	<u> </u>	04/13/2020	UH	mg/l
Nitrite as N, dissolved	8	0.25	08/22/2014	<u> </u>	04/13/2020	UH	mg/l
Nitrogen, Ammonia	8	0.10	11/05/2015	0.43	04/06/2016	0.46	mg/l
Nitrogen, Organic	8	0.32	08/22/2014	0.43	04/03/2019	0.40	mg/l
Nitrogen, Total Kjeldahl	8	0.40	08/22/2014	0.30	01/24/2018	0.58	mg/l
pH, lab	33	9.30	10/10/2019	8.50	04/13/2020	8.74	units
Phosphate, total	8	0.12	08/22/2014	0.06	04/07/2021	0.09	mg/l
Phosphorus, total	8	0.12	08/22/2014	0.00	04/07/2021	0.09	mg/l
SAR in Water	33	37.00	09/10/2019	7.60	01/24/2018	32.84	none
SAN III Water Sulfate	33	57.90	04/06/2016	11.60	01/27/2016	<u> </u>	mg/l
Sulfide	8	3.78	04/07/2021	0.16	08/22/2014	2.07	mg/l
Total Dissolved Solids	33	774.00	01/24/2018	661.00	08/27/2015	698.39	mg/l
Conductivity, Field	76	1,498	10/10/2019	632	02/21/2019	1,186	µmhos
pH, Field	76	8.90	03/16/2016	7.60	04/06/2016	8.40	units
Temperature (°C), Field	76	23.40	07/17/2017	14.85	02/11/2020	21.33	(°C)
Water Level, Field							
	$NI/\Delta$	Ν/Δ	Ν/Δ	Ν/Δ	Ν/Δ	$NI/\Delta$	HT I
Waler Lever, Field	N/A	N/A	N/A	N/A	N/A	N/A	Ft.
						-	
Parameters	No. of	N/A High	N/A Date	N/A Low	N/A Date	Average	Units
Parameters Metals	No. of Samples	High	Date	Low	Date	Average	Units
Parameters Metals Aluminum, dissolved	No. of Samples 8	<b>High</b> 0.04	<b>Date</b> 01/24/2018	<b>Low</b>	<b>Date</b> 08/22/2014	<b>Average</b> 0.02	Units mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved	No. of Samples 8 8	High 0.04 0.05	Date 01/24/2018 08/22/2014	Low 0.00 0.00	Date 08/22/2014 03/23/2017	Average 0.02 0.01	Units mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	No. of Samples 8 8 8	<b>High</b> 0.04	Date 01/24/2018 08/22/2014 04/07/2021	<b>Low</b>	Date 08/22/2014 03/23/2017 01/24/2018	<b>Average</b> 0.02	Units mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	No. of Samples 8 8 8 8 8 8	High 0.04 0.05 0.25 U	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014	Low 0.00 0.00 0.03 U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014	Average 0.02 0.01 0.19 U	Units mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	No. of Samples 8 8 8 8 8 8 33	High 0.04 0.05 0.25	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014	Low 0.00 0.00 0.03	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016	Average 0.02 0.01 0.19	Units mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	No. of Samples 8 8 8 8 8 8 33 8	High 0.04 0.05 0.25 U 0.27 U	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014	Low 0.00 0.03 U 0.21 U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U	Units mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	No. of Samples 8 8 8 8 8 8 33	High 0.04 0.05 0.25 U 0.27	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018	Low 0.00 0.00 0.03 U 0.21	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017	Average 0.02 0.01 0.19 U 0.24	Units mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	No. of Samples 8 8 8 8 33 8 33 8 33 8 33 8	High 0.04 0.05 0.25 U 0.27 U 81.30	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014	Low 0.00 0.03 U 0.21 U 2.20	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	No. of Samples 8 8 8 8 33 8 33 8 33 8 33 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U U U	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014 08/22/2014	Low 0.00 0.03 U 0.21 U 2.20 U U U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	No. of Samples 8 8 8 8 33 8 33 8 33 8 33 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014	Low 0.00 0.03 U 0.21 U 2.20 U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 8 8 8 8 33 8 33 8 33 8 33 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U U 0.13 U	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014 08/22/2014 11/05/2015	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U U 0.07 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 8 8 8 8 33 8 33 8 33 8 33 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U U 0.13	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016	Low 0.00 0.03 U 0.21 U 2.20 U U U 0.05	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U U 0.07	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	No. of Samples 8 8 8 8 33 8 33 8 33 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016 01/24/2018	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 33 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U U 0.13 U 0.13	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 01/24/2018 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016 01/24/2018 08/22/2014	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 33 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016 01/24/2018 08/22/2014 08/22/2014 08/22/2014	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01 U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014 08/22/2014 09/10/2019 04/06/2016 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U 0.16	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016 01/24/2018 08/22/2014 08/22/2014 08/22/2014 08/22/2014	Low 0.00 0.03 U 0.21 U 2.20 U 0.05 U 0.06 1.40 0.01 U 0.07	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U 0.02 U 0.12	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U 0.16 0.01	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 04/06/2016 01/24/2018 08/22/2014 08/22/2014 08/22/2014 04/06/2016 01/24/2018 04/06/2016 04/06/2016 04/06/2016	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01 U 0.07 0.00	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U 0.02 U 0.12 0.01	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U 0.16 0.01 29.20	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 11/05/2015 08/22/2014 04/06/2016 01/24/2018 08/22/2014 01/24/2018 08/06/2016	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01 U 0.07 0.00 0.20 U	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U 0.02 U 0.12 0.01 1.51	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U 0.16 0.01 29.20 U 13.50	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 04/06/2016 01/24/2018 08/22/2014 08/22/2014 01/24/2018 08/22/2014 01/24/2018 04/06/2016 04/06/2016 04/06/2016 08/22/2014 07/08/2020	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01 U 0.07 0.00 0.20 U 11.30	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U 0.02 U 0.12 0.01 1.51 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U 0.16 0.01 29.20 U 13.50 297.00	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 04/06/2016 01/24/2018 08/22/2014 04/06/2016 04/06/2016 04/06/2016 04/06/2016 04/06/2016 08/22/2014 07/08/2020 01/14/2019	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01 U 0.07 0.00 0.20 U 11.30 258.00	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U 0.07 1.90 0.02 U 0.12 0.01 1.51 U 12.55 275.18	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	No. of Samples 8 8 8 8 33 8 33 8 8 8 8 8 8 8 8 8 8 8	High 0.04 0.05 0.25 U 0.27 U 81.30 U 0.13 U 0.13 8.50 0.03 U 0.16 0.01 29.20 U 13.50	Date 01/24/2018 08/22/2014 04/07/2021 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 08/22/2014 04/06/2016 01/24/2018 08/22/2014 08/22/2014 01/24/2018 08/22/2014 01/24/2018 04/06/2016 04/06/2016 04/06/2016 08/22/2014 07/08/2020	Low 0.00 0.03 U 0.21 U 2.20 U U 0.05 U 0.06 1.40 0.01 U 0.07 0.00 0.20 U 11.30	Date 08/22/2014 03/23/2017 01/24/2018 08/22/2014 04/06/2016 08/22/2014 03/23/2017 08/22/2014 03/23/2017 08/22/2014	Average 0.02 0.01 0.19 U 0.24 U 4.83 U U 0.07 U 0.07 1.90 0.02 U 0.02 U 0.12 0.01 1.51 U 12.55	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 24: WSW-3 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC.



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Parameters Wet Chamiatry	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	504.00	04/07/0001	400.00	00/07/0015	401 50	
Bicarbonate as CaCO3	<u>34</u> 35	524.00	04/07/2021 09/25/2014	<u>439.00</u> 46.10	08/27/2015 01/13/2020	481.59	mg/l
Carbonate as CaCO3 Total Alkalinity as CaCO3	35	<u>537.00</u> 925.00	09/25/2014		06/09/2015	75.41 554.40	mg/l mg/l
Bromide	9	0.73	04/03/2019	0.09	08/25/2014	0.46	mg/l
Cation-Anion Balance	34	3.70	01/24/2018	-7.70	07/08/2020	-2.33	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
Sum of Anions	35	22.00	09/25/2014	13.00	06/09/2015	13.66	meq/l
Sum of Cations	35	19.00	09/25/2014	12.00	08/27/2015	13.03	meg/l
Chemical Oxygen Demand	9	53.00	08/25/2014	13.00	04/06/2016	31.25	mg/l
Chloride	35	50.60	11/14/2018	7.87	10/05/2020	18.37	mg/l
Conductivity, Lab	35	2,810	09/25/2014	1,130	04/06/2016	1,261	μmhos
Fluoride	35	19.70	11/14/2018	5.11	09/25/2014	16.63	mg/l
Hardness as CaCO3	35	67.00	01/24/2018	11.00	03/05/2019	14.12	mg/l
Nitrate as N, dissolved	9	0.03	08/25/2014	0.00	09/25/2014	0.02	mg/l
Nitrate/Nitrite as N,	9	0.08	08/25/2014	0.00	09/25/2014	0.04	mg/l
Nitrite as N, dissolved	9	0.05	08/25/2014	0.01	09/25/2014	0.03	mg/l
Nitrogen, Ammonia	9	2.28	09/25/2014	0.43	04/13/2020	0.68	mg/l
Nitrogen, Organic	9	0.40	04/03/2019	0.00	09/25/2014	0.25	mg/l
Nitrogen, Total Kjeldahl	9	1.00	09/25/2014	0.30	03/23/2017	0.65	mg/l
pH, lab	35	11.70	09/25/2014	8.50	10/05/2020	8.86	units
Phosphate, total	9	0.28	09/25/2014	0.06	04/03/2019	0.11	mg/l
Phosphorus, total	9	0.09	09/25/2014	0.02	04/03/2019	0.04	mg/l
SAR in Water	35	44.00	09/25/2014	15.00	01/24/2018	35.03	none
Sulfate	35	130.00	09/25/2014	20.00	04/06/2016	54.55	mg/l
Sulfide	9	4.10	04/03/2019	0.10	09/25/2014	2.54	mg/l
Total Dissolved Solids	35	1,210.00	09/25/2014	696.00	01/13/2020	735.29	mg/l
Conductivity, Field	77	1,558	10/10/2019	1,073	04/06/2016	1,232	µmhos
pH, Field	77	9.40	01/13/2020	7.70	08/27/2015	8.49	units
Tomporatives (00) Field	77				04/40/0047	01 01	$(0 \mathbf{O})$
Temperature (°C), Field	77	29.00	06/20/2016	13.80	04/19/2017	21.31	(°C)
Water Level, Field	// N/A	29.00 N/A	06/20/2016 N/A	<u>13.80</u> N/A	04/19/2017 N/A	21.31 N/A	(°C) Ft.
Water Level, Field	N/A	N/A	N/A	N/A	N/A	N/A	Ft.
Water Level, Field Parameters	N/A No. of						
Water Level, Field Parameters Metals	N/A No. of Samples	N/A High	N/A Date	N/A Low	N/A Date	N/A Average	Ft. Units
Water Level, Field Parameters Metals Aluminum, dissolved	N/A No. of Samples 9	N/A High 0.42	N/A Date 09/25/2014	N/A Low 0.42	N/A Date 09/25/2014	N/A <b>Average</b> 0.42	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	N/A No. of Samples 9 9	N/A High 0.42 0.01	N/A Date 09/25/2014 09/25/2014	N/A Low 0.42 0.00	N/A Date 09/25/2014 04/07/2021	N/A Average 0.42 0.00	Ft. Units mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	N/A No. of Samples 9 9 9	N/A High 0.42 0.01 0.23	N/A Date 09/25/2014 09/25/2014 04/06/2016	N/A Low 0.42 0.00 0.02	N/A Date 09/25/2014 04/07/2021 09/25/2014	N/A Average 0.42 0.00 0.09	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	N/A No. of Samples 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020	N/A Low 0.42 0.00 0.02 U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020	N/A Average 0.42 0.00 0.09 U	Ft. Units mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	N/A No. of Samples 9 9 9 9 9 9 9 35	N/A High 0.42 0.01 0.23 U 0.44	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014	N/A Low 0.42 0.00 0.02 U 0.18	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015	N/A Average 0.42 0.00 0.09 U 0.22	Ft. Units mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9	N/A High 0.42 0.01 0.23 U 0.44 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020	N/A Average 0.42 0.00 0.09 U 0.22 U	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	N/A No. of Samples 9 9 9 9 9 9 9 9 9 35 9 35	N/A High 0.42 0.01 0.23 U 0.44 U 24.70	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	N/A No. of Samples 9 9 9 9 9 35 9 35 9 35 9	N/A High 0.42 0.01 0.23 U 0.44 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9 35 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U U U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U U U U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 04/13/2020	N/A Average 0.42 0.00 0.09 U 0.22 U 0.22 U 2.87 U U U U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9 35 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/13/2020 04/03/2019	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U U 0.02	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U U 0.33	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9 35 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U U 1.63 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/03/2019 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U U U 0.02 U U U U 0.02 U U U U 0.02 U U U U U U U U U U U U U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U 2.87 U U 0.33 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9 35 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U U 0.02 U 0.02 U 0.02	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 04/13/2020 04/13/2020	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.11	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	N/A No. of Samples 9 9 9 9 9 9 9 35 9 9 35 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U U 0.02 U 0.02 U 0.02 0.02 0.02 0.02 0.02 0.02 0.00 0.02 0.02 0.02 0.00 0.02 0.03 0.	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 04/06/2016 09/25/2014	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.11 1.69	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9 9 35 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U U 0.02 U 0.02 U 0.02	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 04/06/2016 09/25/2014 01/24/2018	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.11	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnese, dissolved	N/A No. of Samples 9 9 9 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.00 0.02 0.03 0.03 0.03 0.02 0.03 0.02 0.03	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 04/06/2016 09/25/2014	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.33 U 0.11 1.69 0.01	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Magnesium, dissolved	N/A No. of Samples 9 9 9 9 9 9 35 9 9 35 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.030 0.01 U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.33 U 0.11 1.69 0.01 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	N/A No. of Samples 9 9 9 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U 0.04	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 04/13/2020 01/24/2018	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.03 0.02 U 0.02 U 0.02 U 0.03 0.02 U 0.02 U 0.02 U 0.03 0.02 U 0.02 0.	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 04/13/2020 03/23/2017 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020 09/25/2014	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.33 U 0.11 1.69 0.01 U 0.03	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Marcury, dissolved Molybdenum, dissolved Nickel, dissolved	N/A No. of Samples 9 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U 0.04 U	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 04/13/2020 01/24/2018 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.07 0.30 0.01 U 0.02 U	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 03/23/2017 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020 09/25/2014	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U U 0.33 U 0.11 1.69 0.01 U 0.03 U 0.03 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	N/A No. of Samples 9 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U 0.04 U 0.04 U 18.30	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 04/13/2020 01/24/2018 04/13/2020	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.07 0.30 0.01 U 0.02 0.02 U 0.02 0.02 0.02 U 0.02 0	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020 09/25/2014 08/25/2014 08/25/2014	N/A Average 0.42 0.00 0.09 U 0.22 U 0.22 U 0.22 U 0.33 U 0.33 U 0.11 1.69 0.01 U 0.03 U 0.03 U 0.01 0.01 0.01 0.03 U 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.01 0.01 0.01 0.01 0.01 0.03 0.01 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.01 0.03 0.03 0.03 0.01 0.03 0.03 0.03 0.01 0.03 0.05	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	N/A No. of Samples 9 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U 0.14 2.00 0.01 U 0.04 U 18.30 0.0042 172.00 416.00	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 04/13/2020 01/24/2018 04/13/2020 01/24/2018 08/25/2014 09/25/2014 04/07/2021	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.07 0.30 0.01 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.000 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.020 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020 09/25/2014 08/25/2014 08/25/2014 05/14/2018 04/03/2019	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U 0.11 1.69 0.01 U 0.03 U 0.03 U 0.01 1.06 0.0013	Ft. Units mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	N/A No. of Samples 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U 0.04 U 0.04 U 18.30 0.0042 172.00	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 08/25/2014 09/25/2014 09/25/2014 09/25/2014 09/25/2014	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.07 0.30 0.01 U 0.02 U 0.02 U 0.02 U 0.02 0.00 0.02 0.02 0.00 0.02 0.000 0.02 0.000 0.02 0.000 0.02 0.0000 0.02 0.0000 0.02 0.0000 0.0000 0.020 0.0000 0.0000 0.020 0.0000 0.020 0.0000 0.020 0.0000 0.020 0.0000 0.020 0.0000 0.020 0.0000 0.020 0.020 0.020 0.0000 0.020 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.000000 0.00000000	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 04/13/2020 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020 09/25/2014 05/14/2018 04/03/2019 01/24/2018 04/03/2019 01/24/2018	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U 0.11 1.69 0.01 U 0.03 U 0.11 1.69 0.01 U 1.06 0.0013 16.39	Ft. Units mg/I
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	N/A No. of Samples 9 9 9 9 9 35 9 9 9 9 9 9 9 9 9 9 9 9 9	N/A High 0.42 0.01 0.23 U 0.44 U 24.70 U 24.70 U 1.63 U 0.14 2.00 0.01 U 0.14 2.00 0.01 U 0.04 U 18.30 0.0042 172.00 416.00	N/A Date 09/25/2014 09/25/2014 04/06/2016 04/13/2020 09/25/2014 04/13/2020 01/24/2018 04/13/2020 04/13/2020 04/13/2020 04/03/2019 04/13/2020 04/03/2019 04/13/2020 04/07/2021 08/27/2015 01/24/2018 04/13/2020 01/24/2018 08/25/2014 09/25/2014 09/25/2014	N/A Low 0.42 0.00 0.02 U 0.18 U 1.90 U 0.02 U 0.02 U 0.07 0.30 0.01 U 0.02 U 0.02 U 0.02 U 0.020 0.020 0	N/A Date 09/25/2014 04/07/2021 09/25/2014 04/13/2020 08/27/2015 04/13/2020 03/23/2017 04/13/2020 04/13/2020 04/13/2020 04/06/2016 09/25/2014 01/24/2018 04/13/2020 09/25/2014 05/14/2018 04/03/2019 01/24/2018 04/03/2019	N/A Average 0.42 0.00 0.09 U 0.22 U 2.87 U 0.33 U 0.33 U 0.11 1.69 0.01 U 0.03 U 0.03 U 0.01 1.06 0.0013 16.39 285.97	Ft. Units mg/I

#### Table 25: WSW-4 Annual A-Groove Aquifer

DAUB & ASSOCIATES, INC.



Devenueteve	No. of	l li arla	Data	1	Data	A	L lucito
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	700.00	00/05/1004	144.00	07/00/1000	010 50	100 or /l
Bicarbonate as CaCO3	187	762.00	03/25/1994	144.00	07/30/1990	610.59	mg/l
Carbonate as CaCO3	187	406.00	05/21/1997	25.00 200.00	07/01/1997	100.41	mg/l
Total Alkalinity as CaCO3	187	<u>830.00</u> 10.00	07/31/1991		07/30/1990	711.17	mg/l
Bromide	28		06/26/1991	0.06	07/01/1997	1.15	mg/l
Cation-Anion Balance	182	24.10	04/16/2002	-10.30	01/13/2021	-0.16	%
Sum of Anions	181	18.00	06/14/2017	4.29	07/30/1990	15.71	meq/l
Sum of Cations Chemical Oxygen Demand	181	18.20	04/11/2006	4.38	07/30/1990	<u>15.47</u> 81.41	meq/l
	30	420.00	06/25/2007	30.00	03/30/1990	15.35	mg/l
Conductivity Lob	186	70.50	06/14/2017	6.00	09/27/1990		mg/l
Conductivity, Lab	179	<u>1,850.00</u> 38.20	04/24/1991	1,000.00	05/20/1993	1,392.39	µmhos
Fluoride Hardness as CaCO3	181		02/24/1992	0.20	09/29/1994 07/30/1990	23.81	mg/l
	185	65.00	09/27/1990	0.00		11.13	mg/l
Nitrate as N, dissolved	<u>30</u> 30	16.50	06/25/2007	0.02	06/26/1991	1.01	mg/l
Nitrate/Nitrite as N,	30	17.00	06/25/2007		06/26/1991	1.07	mg/l
Nitrite as N, dissolved		0.55	06/25/2007	0.01	03/30/1990	0.13	mg/l
Nitrogen, Ammonia	30	9.23		0.06		1.85	mg/l
Nitrogen, Organic	29	29.10	06/26/1991	0.10	06/15/1992	5.08	mg/l
Nitrogen, Total Kjeldahl	30	30.10	06/26/1991	0.80	06/15/1992	6.81	mg/l
pH, lab	182	9.80	12/20/1994	8.10	10/28/2002	8.89	units
Phosphate, total	26	155.00	06/25/2007	0.06	07/18/1995	13.46	mg/l
Phosphorus, total	31	2.90	09/27/1990	0.02	07/02/1998	0.17	mg/l
SAR in Water	157	158.62	06/26/1990	16.50	09/27/1990	48.57	none
Sulfate	185	140.00	10/25/1990	0.00	08/16/2017	20.10	mg/l
Sulfide	26	2.10	07/30/1990	0.02	07/27/2001	0.45	mg/l
Total Dissolved Solids	187	1,100.00	10/21/1989	446.00	07/30/1990	863.76	mg/l
Conductivity, Field	204	1,683.00	06/05/2012	925.00	08/02/2006	1,343.18	umhos
pH, Field	204	10.12	07/29/2009	7.10	06/10/2020	9.02	units
Temperature (°C), Field	110	19.00	07/31/1991	7.60	04/01/2006	12.49	(°C)
Water Level, Field	94	500.70	07/31/1991 06/25/2014	7.60 432.37	06/25/2014	12.49 473.29	(°C) Ft.
Water Level, Field	94	500.70	06/25/2014	432.37	06/25/2014	473.29	Ft.
Water Level, Field Parameters	94 No. of						
Water Level, Field Parameters Metals	94 No. of Samples	500.70 <b>High</b>	06/25/2014 Date	432.37 Low	06/25/2014 Date	473.29 Average	Ft. Units
Water Level, Field Parameters Metals Aluminum, dissolved	94 No. of Samples 30	500.70 <b>High</b> 1.54	06/25/2014 Date 03/30/1990	432.37 Low 0.04	06/25/2014 Date 07/01/1997	473.29 Average 0.24	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30	500.70 <b>High</b> 1.54 0.30	06/25/2014 Date 03/30/1990 10/21/1989	432.37 Low 0.04 0.0005	06/25/2014 Date 07/01/1997 12/03/2012	473.29 Average 0.24 0.0183	Ft. Units mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	94 <b>No. of</b> <u>Samples</u> <u>30</u> <u>30</u> <u>30</u>	500.70 <b>High</b> 1.54 0.30 0.43	06/25/2014 Date 03/30/1990 10/21/1989 08/02/2006	432.37 Low 0.04 0.0005 0.02	06/25/2014 Date 07/01/1997 12/03/2012 12/26/2018	473.29 Average 0.24 0.0183 0.18	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 30 29	500.70 High 1.54 0.30 0.43 0.01	06/25/2014 Date 03/30/1990 10/21/1989 08/02/2006 06/26/1991	432.37 Low 0.04 0.0005 0.02 U	06/25/2014 Date 07/01/1997 12/03/2012 12/26/2018 10/21/1989	473.29 Average 0.24 0.0183 0.18 U	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 30 29 182	500.70 High 1.54 0.30 0.43 0.01 3.30	06/25/2014 Date 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991	432.37 Low 0.04 0.0005 0.02 U 0.35	06/25/2014 Date 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004	473.29 Average 0.24 0.0183 0.18 U 0.68	Ft. Units mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 30 29 182 29	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013	06/25/2014 Date 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U	06/25/2014 Date 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990	473.29 Average 0.24 0.0183 0.18 U 0.68 U	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 182 29 179	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 182 29 179 29	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	94 No. of Samples 30 30 29 182 29 182 29 179 29 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.50 U 0.01	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	94 No. of Samples 30 30 29 182 29 179 29 179 29 30 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.50 U 0.01 0.01	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 07/07/1999	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 2.29 U 0.01 0.17	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 30 29	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 13.00 0.01 0.02 0.93 0.10	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.50 U 0.01 0.01 0.02	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 07/07/1999 06/26/1991	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 2.29 U 0.01 0.17 0.06	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 30 29 29 30 30 29 29 30 30 29 29 30 30 29 29 30 30 30 29 29 30 30 30 29 29 29 30 30 30 29 29 29 30 30 30 29 29 29 29 30 30 29 29 29 29 29 29 29 29 29 29	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 12/27/1990	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.50 U 0.01 0.01 0.02 0.06	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 07/07/1999 06/26/1991 03/30/1990	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 30 29 179 29 179 29 30 30 29 182 29 183 182 29 183 183 183 184 184 184 184 184 184 184 184	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 12/27/1990 09/27/1990	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.50 U 0.01 0.01 0.01 0.02 0.06 0.30	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 06/26/1991 03/30/1990 03/16/2010	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 30 29 179 29 182 29 30 30 29 29 30 30 29 29 30 30 29 29 29 30 30 29 29 29 29 29 29 29 29 29 29	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07	06/25/2014 Date 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 12/27/1990 09/27/1990 06/25/2007	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/30/1990 03/30/1990 03/16/2010 03/16/2010 07/01/1997	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 179 29 182 29 182 29 182 29 182 29 182 30 30 30 30 30 30 30 30 30 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 12/27/1990 09/27/1990 06/25/2007 06/15/1992	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.001 0.0001	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/30/1990 03/30/1991 03/30/1997 06/26/1991	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 181 29 30 30 29 29 30 30 29 30 30 29 30 29 30 29 30 29 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 29 30 30 30 30 29 30 30 30 30 30 30 30 30 30 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 12/27/1990 09/27/1990 06/25/2007 06/15/1992 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.001 0.001 0.001 0.001 0.01	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/30/1990 03/30/1990 03/16/2010 03/16/2010 07/01/1997 06/26/1991 07/27/2001	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14	Ft. 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 mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 181 29 30 30 29 30 30 29 30 30 30 29 30 30 30 30 30 30 30 30 30 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03	06/25/2014 Date 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 12/27/1990 06/25/2007 06/15/1992 10/21/1989 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.001 0.001 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.01 0.01 0.01 0.001	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/30/1990 03/16/2010 03/16/2010 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02	Ft. 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 mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 30 30 29 29 30 30 29 30 30 29 30 30 29 30 30 29 182 30 30 30 30 30 30 30 30 30 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03 13.00	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/25/2007 03/30/1990 10/21/1989 12/27/1990 06/25/2007 06/15/1992 10/21/1989 10/21/1989 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.02 0.06 0.30 0.01 0.001 0.001 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.05 0.01 0.01 0.05 0.01 0.01 0.05 0.05 0.5 0.	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/30/1990 03/30/1990 03/16/2010 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012 06/10/2020	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02 1.29	Ft. 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 mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	94 No. of Samples 30 30 29 182 29 179 29 30 30 29 29 181 29 30 30 29 29 30 30 29 30 30 29 30 30 29 30 30 30 30 30 30 30 30 30 30 30 30 30	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03 13.00 0.001	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/25/2007 03/30/1990 10/21/1989 12/27/1990 06/25/2007 06/15/1992 10/21/1989 10/21/1989 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.001 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/06/26/1991 03/30/1990 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012 06/10/2020 12/27/1990	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02 1.29 U	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 30 29 29 181 29 30 30 29 30 30 29 181 29 30 181 30 181 30 182	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03 13.00 0.001 35.90	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/25/2007 03/30/1990 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.001 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/30/1990 03/0/1990 03/16/2010 03/16/2010 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012 06/10/2020 12/27/1990 06/11/2019	473.29 Average 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02 1.29 U 16.94	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 30 29 30 30 29 30 30 29 30 30 29 181 29 30 182 182 182	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03 13.00 0.001 35.90 408.00	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/25/2007 03/30/1990 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 03/25/1991	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/0/1990 03/16/2010 07/07/1999 06/26/1991 03/30/1990 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012 06/10/2020 12/27/1990 06/11/2019 12/27/1990	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02 1.29 U 16.94 348.94	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 30 30 29 30 29 30 181 29 30 181 29 30 182 182 182	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03 13.00 0.001 35.90 408.00 0.83	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/26/1991 06/25/2007 03/30/1990 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 03/25/1991 10/21/1989 03/25/1991 10/21/1989 03/25/1991	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.001 0.001 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.06 U 1.80 102.00 0.06	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/0/1990 03/0/1990 03/16/2010 07/07/1999 06/26/1991 03/30/1990 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012 06/10/2020 12/27/1990 06/11/2019 12/27/1990 10/21/1989	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02 1.29 U 16.94 348.94 0.49	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	94 <b>No. of</b> <b>Samples</b> 30 30 29 182 29 179 29 30 30 29 29 181 29 30 29 30 30 29 30 30 29 30 30 29 181 29 30 182 182 182	500.70 High 1.54 0.30 0.43 0.01 3.30 0.013 13.00 0.01 0.02 0.93 0.10 0.20 8.00 0.07 0.001 0.60 0.03 13.00 0.001 35.90 408.00	06/25/2014 <b>Date</b> 03/30/1990 10/21/1989 08/02/2006 06/26/1991 03/25/1991 10/21/1989 09/27/1990 06/25/2007 03/30/1990 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 10/21/1989 03/25/1991	432.37 Low 0.04 0.0005 0.02 U 0.35 U 0.50 U 0.01 0.01 0.02 0.06 0.30 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02	06/25/2014 <b>Date</b> 07/01/1997 12/03/2012 12/26/2018 10/21/1989 01/27/2004 12/27/1990 03/16/2010 12/27/1990 03/0/1990 03/16/2010 07/07/1999 06/26/1991 03/30/1990 03/16/2010 07/01/1997 06/26/1991 07/27/2001 12/03/2012 06/10/2020 12/27/1990 06/11/2019 12/27/1990	473.29 <b>Average</b> 0.24 0.0183 0.18 U 0.68 U 2.29 U 0.01 0.17 0.06 0.13 1.37 0.03 0.0005 0.14 0.02 1.29 U 16.94 348.94	Ft. Units mg/l

#### Table 26: 89-1 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC. 21. Frank Contraction



			<b>.</b>		<b>.</b>		
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	1 700 00	00/11/00001	440.00	00/00/0005	700.00	
Bicarbonate as CaCO3	126	1,790.00	09/14/2004	419.00	03/23/2005	769.83	mg/l
Carbonate as CaCO3	126	419.00	03/23/2005	4.00	06/16/1997	88.38	mg/l
Total Alkalinity as CaCO3	126	1,790.00	09/14/2004	680.00	06/15/2014	854.72	mg/l
Bromide	14	1.50	07/21/1992	0.10	01/29/1991	0.44	mg/l
Cation-Anion Balance	125	36.90	08/10/2008	-33.50	09/14/2004	-1.53	%
Sum of Anions	116	37.50	09/14/2004	15.00	06/26/2002	18.87	meq/l
Sum of Cations	116	39.50	08/10/2008	11.10	11/23/2010	18.19	meq/l
Chemical Oxygen Demand	21	210.00 293.00	09/15/2007	10.00	08/14/1995	75.00	mg/l
Chloride	126		06/14/2008	9.75	01/16/2018 07/21/1992	20.99	mg/l
Conductivity, Lab	123	2,200.00	05/16/2007	1,280.00		1,591.50	µmhos
Fluoride	126	98.00	03/24/1999	9.00	12/11/2001	23.15	mg/l
Hardness as CaCO3	122	47.00	10/09/2019	1.00	10/25/1990	14.96	mg/l
Nitrate as N, dissolved	26	0.27	06/24/2004	0.04	01/29/1991	0.11	mg/l
Nitrate/Nitrite as N,	26	0.27	06/24/2004	0.05	01/29/1991	0.12	mg/l
Nitrite as N, dissolved	26	0.03	08/16/1994	0.01	01/29/1991	0.02	mg/l
Nitrogen, Ammonia	25	10.90	08/16/1996	0.83	06/28/2006	1.63	mg/l
Nitrogen, Organic	25	12.00	09/15/2007	0.20	01/29/1991	3.56	mg/l
Nitrogen, Total Kjeldahl	25	13.00	09/15/2007	0.50	08/14/1995	4.26	mg/l
pH, lab	123	9.00	04/24/1991	7.40	06/16/1997	8.70	units
Phosphate, total	21	155.00	06/28/2006	0.06	05/08/2020	8.29	mg/l
Phosphorus, total	24	3.63	08/01/1990	0.02	06/28/2006	0.27	mg/l
SAR in Water	117	198.04	10/25/1990	0.08	04/24/1991	48.34	none
Sulfate	82	333.00	01/20/1992	0.60	09/29/1997	49.26	mg/l
Sulfide	19	6.21	08/01/1990	0.03	06/28/2006	0.76	mg/l
Total Dissolved Solids	124	1,490.00	08/10/2008	813.00	11/23/2010	1,011.65	mg/l
Conductivity, Field	184	2,200.00	05/16/2007	1,135.00	06/16/1997	1,548.91	µmhos
pH, Field	184	10.60	12/16/2002	7.00	10/09/2019	8.67	units
I amparatura /º/ `` Liaid							
Temperature (°C), Field	125	19.70	05/01/2002	7.90	02/09/2021	12.29	(°C)
Water Level, Field	125	19.70 547.40	05/01/2002	7.90 507.30	02/09/2021 01/15/2016	12.29 530.53	(°C) Ft.
Water Level, Field	104	547.40	06/14/2011	507.30	01/15/2016	530.53	Ft.
Water Level, Field Parameters	104 No. of						
Water Level, Field Parameters Metals	104 No. of Samples	547.40 High	06/14/2011 Date	507.30 Low	01/15/2016 Date	530.53 Average	Ft. Units
Water Level, Field Parameters Metals Aluminum, dissolved	104 <b>No. of</b> <b>Samples</b> 26	547.40 High 9.47	06/14/2011 Date 06/16/1997	507.30 Low 0.04	01/15/2016 Date 06/14/2000	530.53 Average	Ft. Units mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	104 <b>No. of</b> <u>Samples</u> <u>26</u> 26	547.40 High 9.47 0.02	06/14/2011 Date 06/16/1997 08/01/1990	507.30 Low 0.04 0.00	01/15/2016 Date 06/14/2000 11/27/2012	530.53 Average 1.73 0.00	Ft. Units mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	104 No. of Samples 26 26 26 26	547.40 High 9.47 0.02 0.96	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997	507.30 Low 0.04 0.00 0.03	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990	530.53 Average 1.73 0.00 0.36	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	104 No. of Samples 26 26 26 26 26	547.40 High 9.47 0.02 0.96 U	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997 08/01/1990	507.30 Low 0.04 0.00 0.03 U	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994	530.53 Average 1.73 0.00 0.36 U	Ft. Units mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	104 No. of Samples 26 26 26 26 26 26 127	547.40 High 9.47 0.02 0.96 U 0.93	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004	507.30 Low 0.04 0.00 0.03 U 0.31	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994	530.53 Average 1.73 0.00 0.36 U 0.73	Ft. Units mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	104 No. of Samples 26 26 26 26 26 26 127 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993	507.30 Low 0.04 0.00 0.03 U 0.31 U	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998	530.53 Average 1.73 0.00 0.36 U 0.73 U	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	104 No. of Samples 26 26 26 26 26 127 26 127	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80	01/15/2016 <b>Date</b> 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50	Ft. Units mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	104 <b>No. of</b> 26 26 26 26 26 127 26 127 26 127 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U	01/15/2016 <b>Date</b> 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	104 No. of Samples 26 26 26 26 127 26 127 26 127 26 26 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U 0.01	01/15/2016 <b>Date</b> 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	104 <b>No. of</b> 26 26 26 26 127 26 127 26 127 26 26 26 26 26 26 26 26 26 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U 0.01 0.01	01/15/2016 <b>Date</b> 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005	530.53 <b>Average</b> 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	104 <b>No. of</b> <b>Samples</b> 26 26 26 127 26 127 26 127 26 26 26 26 26 26 26 26 26 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U 0.01 0.01 0.04	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992	530.53 <b>Average</b> 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06	Ft. Units mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	104 <b>No. of</b> <u>26</u> 26 26 26 127 26 127 26 26 26 26 26 26 26 26 26 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/09/1999	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U 0.01 0.01 0.04 0.04	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993	530.53 <b>Average</b> 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	104 <b>No. of</b> <u>26</u> 26 26 26 127 26 127 26 26 26 26 26 26 26 26 25 127	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/09/1999 10/30/1991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U 0.01 0.01 0.01 0.04 0.04 0.90	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19	Ft. Units mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved	104 <b>No. of</b> 26 26 26 26 127 26 127 26 26 26 26 26 26 26 26 25 127 25	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/09/1999 10/30/1991 06/16/1997	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.80 U 0.01 0.01 0.04 0.04 0.90 0.01	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02	Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	104 <b>No. of</b> <b>Samples</b> 26 26 26 127 26 127 26 26 26 26 26 26 26 26 26 26	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/09/1999 10/30/1991 06/16/1997 07/31/1991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.01 0.04 0.04 0.90 0.01 0.002	01/15/2016 <b>Date</b> 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060	Ft. Units mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>127</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>127</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>127</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/09/1999 10/30/1991 06/16/1997 07/31/1991 08/01/1990	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.01 0.04 0.04 0.90 0.01 0.04 0.90 0.01 0.02	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07	Ft. 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 mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>2</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14 0.02	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/09/1999 10/30/1991 06/16/1997 07/31/1991 08/01/1990 01/29/1991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.00 0.03 0.04 0.04 0.04 0.04 0.02 0.01 0.02 0.01 0.02 0.03 0.01 0.02 0.03 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.01	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02	Ft. 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 mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>2</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14 0.02 12.00	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 07/31/1991 08/01/1990 01/29/1991 07/31/1991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.04 0.04 0.04 0.90 0.01 0.002 0.02 0.02 0.01 1.00	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010 05/23/1994	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02 1.67	Ft. 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 mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> 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<u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>2</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14 0.02 12.00 0.001	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 07/31/1991 08/01/1990 01/29/1991 07/31/1991 08/08/1990	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.00 0.03 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.03 U 0.04 0.03 U 0.03 U 0.04 0.03 U 0.03 U 0.04 0.03 U 0.04 0.03 U 0.04 0.03 U 0.04 0.04 0.03 U 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.01 0.04 0.04 0.04 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.04 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.02 0.01 0.02 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.02 0.01 0.01 0.01 0.01 0.01 0.01 0.02 0.01	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010 05/23/1994 07/21/1992	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02 1.67 U	Ft. 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 mg/l mg/l mg/l mg/l mg/l mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>25</u> <u>127</u> <u>25</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>27</u> <u>26</u> <u>27</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14 0.02 12.00 0.001 122.00	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 07/31/1991 08/01/1990 01/29/1991 07/31/1991 08/08/1990 10/30/1991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.00 0.03 0.01 0.002 0.02 0.02 0.01 1.00 U 0.30	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010 05/23/1994 07/21/1992 04/24/1991	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02 1.67 U 19.61	Ft. mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>27</u> <u>26</u> <u>27</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>27</u> <u>26</u> <u>127</u> <u>27</u> <u>27</u> <u>27</u> <u>26</u> <u>127</u> <u>127</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14 0.02 12.00 0.001 122.00 882.00	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 07/31/1991 08/01/1990 01/29/1991 07/31/1991 08/08/1990 10/30/1991 08/01/991 08/01/991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.00 0.02 0.02 0.02 0.01 1.00 U 0.30 247.00	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010 05/23/1994 07/21/1992 04/24/1991 11/23/2010	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02 1.67 U 19.61 407.82	Ft. mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Nickel, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Strontium, dissolved Assolved Strontium, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u> <u>27</u>	547.40           High           9.47           0.02           0.96           U           0.93           0.028           15.00           U           0.40           12.10           0.07           0.15           8.00           0.08           0.017           0.14           0.02           12.00           0.001           122.00           882.00           1.30	06/14/2011 Date 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 07/31/1991 08/01/1990 01/29/1991 07/31/1991 08/08/1990 10/30/1991 08/01/2008 04/20/1992	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.01 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.00 0.02 0.02 0.02 0.01 1.00 U 0.30 247.00 0.06	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010 05/23/1994 07/21/1992 04/24/1991 11/23/2010 06/14/2000	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02 1.67 U 19.61 407.82 0.68	Ft. mg/l
Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	104 <b>No. of</b> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>127</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>26</u> <u>27</u> <u>26</u> <u>27</u> <u>26</u> <u>127</u> <u>26</u> <u>127</u> <u>27</u> <u>26</u> <u>127</u> <u>27</u> <u>27</u> <u>27</u> <u>26</u> <u>127</u> <u>127</u>	547.40 High 9.47 0.02 0.96 U 0.93 0.028 15.00 U 0.40 12.10 0.07 0.15 8.00 0.08 0.017 0.14 0.02 12.00 0.001 122.00 882.00	06/14/2011 <b>Date</b> 06/16/1997 08/01/1990 06/16/1997 08/01/1990 03/18/2004 07/21/1993 10/09/2019 08/01/1990 07/31/1991 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 06/16/1997 07/31/1991 08/01/1990 01/29/1991 07/31/1991 08/08/1990 10/30/1991 08/01/991 08/01/991	507.30 Low 0.04 0.00 0.03 U 0.31 U 0.31 U 0.80 U 0.01 0.04 0.04 0.04 0.04 0.04 0.04 0.00 0.02 0.02 0.02 0.01 1.00 U 0.30 247.00	01/15/2016 Date 06/14/2000 11/27/2012 08/08/1990 08/16/1994 02/21/1994 06/02/1998 12/12/2008 07/21/1993 06/24/2004 06/16/2005 07/21/1992 07/21/1993 12/12/2008 06/28/2006 08/14/1995 08/16/1996 09/21/2010 05/23/1994 07/21/1992 04/24/1991 11/23/2010	530.53 Average 1.73 0.00 0.36 U 0.73 U 2.50 U 0.21 1.65 0.06 0.13 2.19 0.02 0.0060 0.07 0.02 1.67 U 19.61 407.82	Ft. mg/l

#### Table 27: 90-3 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC. 21 3 A CONTRACTOR



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry		підп	Dale	LOW	Date	Average	Units
Bicarbonate as CaCO3	Samples 145	1,010.00	08/07/1997	283.00	02/16/2007	637.90	mg/l
Carbonate as CaCO3	145	581.00	08/21/2003	8.00	05/26/2000	135.29	mg/l
Total Alkalinity as CaCO3	145	1,160.00	08/21/2003	364.00	02/16/2007	769.33	mg/l
Bromide	145	3.00	09/02/1998	0.10	05/18/2006	0.49	mg/l
Cation-Anion Balance	144	42.30	03/17/2009	-36.30	08/07/1997	-1.64	
Sum of Anions	144	30.80	08/07/1997	9.10	02/16/2007	17.38	 meq/l
Sum of Cations	144	43.20	03/17/2009	6.70	02/16/2007	16.86	meg/l
Chemical Oxygen Demand	15	470.00	08/25/2005	10.00	09/14/2000	148.00	mg/l
Chloride	144	249.00	08/07/1997	10.00	09/25/2002	24.74	mg/l
Conductivity, Lab	144	3,980.00	08/07/1997	769.00	02/16/2007	1,512.94	µmhos
Fluoride	143	56.00	03/25/1998	12.80	06/14/2008	24.12	mg/l
Hardness as CaCO3	144	48.00	04/19/2001	1.00	02/16/2007	11.11	mg/l
Nitrate as N, dissolved	144	0.53	09/25/2002	0.03	08/30/2008	0.20	mg/l
Nitrate/Nitrite as N,	18	0.53	09/25/2002	0.03	05/18/2006	0.20	mg/l
Nitrite as N, dissolved	18	0.02	05/18/2006	0.02	05/18/2006	0.02	mg/l
Nitrogen, Ammonia	16	5.00	09/29/1997	0.02	09/29/2006	1.87	mg/l
Nitrogen, Organic	16	28.00	09/25/2002	0.72	09/22/1999	8.02	
Nitrogen, Total Kjeldahl	16	28.00	09/25/2002	1.40	09/15/1999	9.79	<u>mg/l</u> mg/l
pH, lab	144	28.00	05/01/2020	7.00	12/12/2008	9.79	
Phosphate, total	144		05/01/2020	0.08	09/15/1997	<u>9.05</u> 24.26	units
Phosphorus, total	14	<u>155.00</u> 0.51	09/24/2003	0.08	09/15/1997		mg/l
SAR in Water	143	148.00	11/23/2010	19.80	04/19/2001	0.13 58.06	mg/l
	143	70.00		0.70	11/20/2000		none ma/l
Sulfate Sulfide	142	1.50	10/30/2003 09/24/2003	0.03	09/29/2006	12.83	mg/l
	14				09/29/2008	0.33	mg/l
Total Dissolved Solids		1,510.00 3,980.00	03/17/2009 08/07/1997	453.00 1,310.00	02/08/2000	935.26	mg/l
Conductivity, Field	157	3,900.00	00/07/1997	1.310.00	02/00/2000	1,527.53	µmhos
	157					0.00	unite
pH, Field	157	10.69	07/29/2009	6.35	08/30/2008	8.92	units
pH, Field Temperature (°C), Field	109	10.69 16.20	07/29/2009 06/01/2007	6.35 8.60	08/30/2008 12/01/2003	12.62	(°C)
pH, Field		10.69	07/29/2009	6.35	08/30/2008		
pH, Field Temperature (°C), Field Water Level, Field	109 108	10.69 16.20 540.70	07/29/2009 06/01/2007 10/05/2020	6.35 8.60 493.67	08/30/2008 12/01/2003 07/01/2001	12.62 522.12	<u>(°C)</u> Ft.
pH, Field Temperature (°C), Field Water Level, Field Parameters	109 108 <b>No. of</b>	10.69 16.20	07/29/2009 06/01/2007	6.35 8.60	08/30/2008 12/01/2003	12.62	(°C)
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals	109 108 <b>No. of</b> <b>Samples</b>	10.69 16.20 540.70 <b>High</b>	07/29/2009 06/01/2007 10/05/2020 Date	6.35 8.60 493.67	08/30/2008 12/01/2003 07/01/2001 Date	12.62 522.12 Average	(°C) Ft. Units
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	109 108 <b>No. of</b> Samples 18	10.69 16.20 540.70 <b>High</b> 7.96	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002	6.35 8.60 493.67 Low	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007	12.62 522.12 Average 1.06	(°C) Ft. <b>Units</b> mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	109 108 <b>No. of</b> <u>Samples</u> 18 18	10.69 16.20 540.70 High 7.96 0.00	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997	6.35 8.60 493.67 Low 0.03 0.00	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012	12.62 522.12 Average 1.06 0.00	(°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	109 108 <b>No. of</b> <u>Samples</u> 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006	12.62 522.12 Average 1.06 0.00 0.31	(°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	109 108 <b>No. of</b> <u>Samples</u> 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012	12.62 522.12 Average 1.06 0.00 0.31 U	(°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 18 18 18 143	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 03/17/2009	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001	12.62 522.12 Average 1.06 0.00 0.31 U 0.82	(°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 18 18 143 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 03/17/2009 11/27/2012	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012	12.62 522.12 Average 1.06 0.00 0.31 U 0.82 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 18 143 18 143 18 142	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 03/17/2009 11/27/2012 12/12/2008	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010	12.62 522.12 Average 1.06 0.00 0.31 U 0.82 U 2.29	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 143 18 143 18 142 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 03/17/2009 11/27/2012 12/12/2008 09/29/1997	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20 0.02	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997	12.62 522.12 Average 1.06 0.00 0.31 U 0.82 U 2.29 0.02	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 143 18 143 18 142 18 18 142 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003	12.62 522.12 Average 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 143 18 142 18 142 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 143 18 143 18 142 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.02 0.01 0.03 0.05	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 18 143 18 142 18 142 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.02 0.01 0.03 0.05 0.12	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/25/2002	6.35 8.60 493.67 <b>Low</b> 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.18	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2000	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.36 0.16 1.32 0.04	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.18 0.0006	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 U U	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2000 09/02/1998	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.18 0.0006 0.06	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 U 0.20	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2000 09/02/1998 09/14/2004	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.06 0.05	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998 09/29/1997 09/29/2006	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 0.20 0.01 0.20 0.01 0.20	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2000 09/02/1998 09/14/2004 09/25/2002	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U U 0.03 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.05 12.00	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998 09/29/1997 09/29/2006 08/07/1997	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 0.20 0.01 0.20 0.01 U 0.20 0.01 0.20 0.01 0.20 0.01 0.20 0.01 0.20 0.01 0.20 0.02 0.01 0.20 0.02 0.01 0.02 0.02	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2000 09/02/1998 09/14/2004 09/25/2002 06/14/2001	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03 0.03 3.09	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.05 12.00 U	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 0.20 0.01 0.20 1.20 U U 0.01 0.02 1.20 U	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2001 09/02/1998 09/14/2004 09/25/2002 06/14/2001 11/27/2012	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03 0.03 0.03 3.09 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	109 108 No. of Samples 18 18 18 143 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.05 12.00 U 50.20	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998 04/19/201 09/25/2002 09/02/1998 09/29/1997 09/29/2006 08/07/1997 11/27/2012 09/25/2002	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.02 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 0.20 1.20 U 1.20 U 1.40	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2001 09/02/1998 09/14/2004 09/25/2002 06/14/2001 11/27/2012 10/26/2004	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03 0.03 0.03 3.09 U 9.68	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Solium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.06 0.05 12.00 U 50.20 973.00	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998 04/19/201 09/25/2002 09/02/1998 09/29/1997 09/29/2006 08/07/1997 11/27/2012 09/25/2002 03/17/2009	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 0.20 0.01 0.20 0.01 0.20 0.01 U 0.20 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 0.02 0.01 0.02 0.12 0.20 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2001 09/02/1998 09/14/2004 09/25/2002 06/14/2001 11/27/2012 10/26/2004 02/16/2007	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03 0.03 0.03 3.09 U 9.68 374.71	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lithium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 142 17 17 18 18 18 142 17 17 18 18 142 17 17 18 18 144 144 144	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.06 0.05 12.00 U 50.20 973.00 1.58	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 03/17/2009 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1997 09/29/1997 09/29/2006 08/07/1997 11/27/2012 09/25/2002 03/17/2009 09/25/2002	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.02 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 0.03 0.05 0.12 0.20 0.01 0.03 0.02 0.02 0.01 0.03 0.02 0.02 0.01 0.03 0.02 0.02 0.01 0.03 0.02 0.02 0.02 0.01 0.03 0.02 0.02 0.02 0.01 0.03 0.02 0.02 0.02 0.01 0.03 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.01 0.03 0.05 0.12 0.20 0.01 0.02 0.01 0.01 0.02 0.12 0.01 0.02 0.14 0.14 0.14	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2001 09/25/2002 06/14/2001 11/27/2012 10/26/2004 02/16/2007 02/16/2007	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03 0.03 0.03 3.09 U 9.68 374.71 0.53	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Solium, dissolved	109 108 <b>No. of</b> <b>Samples</b> 18 18 18 143 18 142 18 18 18 18 18 18 18 18 18 18 18 18 18	10.69 16.20 540.70 High 7.96 0.00 1.26 U 1.67 U 8.80 0.02 0.38 29.40 0.88 0.20 9.40 0.88 0.20 9.40 0.18 0.0006 0.06 0.05 12.00 U 50.20 973.00	07/29/2009 06/01/2007 10/05/2020 <b>Date</b> 09/25/2002 09/29/1997 09/25/2002 11/27/2012 12/12/2008 09/29/1997 09/25/2002 09/25/2002 09/25/2002 09/02/1998 04/19/2001 09/25/2002 09/02/1998 04/19/201 09/25/2002 09/02/1998 09/29/1997 09/29/2006 08/07/1997 11/27/2012 09/25/2002 03/17/2009	6.35 8.60 493.67 Low 0.03 0.00 0.13 U 0.22 U 0.20 0.02 0.01 0.03 0.05 0.12 0.20 0.01 0.20 0.01 0.20 0.01 0.20 0.01 U 0.20 0.01 0.03 0.05 0.12 0.20 0.01 U 0.20 0.01 0.02 0.01 0.02 0.12 0.20 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.02 0.01 0.02 0.02 0.01 0.02 0.02 0.02 0.02 0.01 0.02	08/30/2008 12/01/2003 07/01/2001 <b>Date</b> 11/16/2007 11/27/2012 09/29/2006 11/27/2012 04/19/2001 11/27/2012 04/19/2001 11/27/2012 11/23/2010 09/29/1997 09/24/2003 03/14/2008 09/21/2010 08/30/2008 09/21/2010 08/30/2008 09/29/2006 09/14/2001 09/02/1998 09/14/2004 09/25/2002 06/14/2001 11/27/2012 10/26/2004 02/16/2007	12.62 522.12 <b>Average</b> 1.06 0.00 0.31 U 0.82 U 2.29 0.02 0.09 2.66 0.36 0.16 1.32 0.04 U 0.03 0.03 0.03 3.09 U 9.68 374.71	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 28: BG-1 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC. AT THE CONTRACTOR



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	ingn	Date	LOW	Date	Average	Units
Bicarbonate as CaCO3	226	899.00	10/28/2002	524.00	09/14/2004	693.31	mg/l
Carbonate as CaCO3	226	210.00	07/30/2003	16.00	11/21/2008	93.13	mg/l
Total Alkalinity as CaCO3	226	984.00	05/07/2018	612.00	04/17/2002	783.17	mg/l
Bromide	30	0.10	08/12/2004	0.10	08/12/2004	0.10	mg/l
Cation-Anion Balance	225	13.40	08/02/2006	-12.80	05/07/2018	-2.29	%
Sum of Anions	225	22.00	05/07/2018	12.60	08/02/2006	17.64	meq/l
Sum of Cations	225	20.00	05/14/2020	13.60	04/29/2010	16.85	meq/l
Chemical Oxygen Demand	30	400.00	08/22/2002	10.00	08/02/2006	75.86	mg/l
Chloride	225	116.00	11/03/2020	2.00	08/02/2006	27.20	mg/l
Conductivity, Lab	225	1,960	01/12/2021	1,160	08/02/2006	1,558	µmhos
Fluoride	225	26.90	12/16/2003	2.09	06/06/2017	22.23	mg/l
Hardness as CaCO3	224	47.00	09/30/2008	5.00	11/27/2002	15.46	mg/l
Nitrate as N, dissolved	29	2.06	09/28/2006	0.03	11/06/2014	1.05	mg/l
Nitrate/Nitrite as N,	29	2.08	09/28/2006	0.02	05/18/2006	0.59	mg/l
Nitrite as N, dissolved	29	0.21	08/02/2006	0.01	05/18/2006	0.07	mg/l
Nitrogen, Ammonia	30	1.61	09/30/2008	0.43	05/14/2020	0.88	mg/l
Nitrogen, Organic	28	27.00	08/22/2002	0.50	08/02/2006	4.75	mg/l
Nitrogen, Total Kjeldahl	30	28.00	08/22/2002	1.00	04/13/2016	5.02	mg/l
pH, lab	226	9.20	05/21/2009	7.50	08/30/2008	8.78	units
Phosphate, total	26	155.00	05/18/2006	0.12	08/18/2010	40.51	mg/l
Phosphorus, total	30	0.32	05/14/2020	0.03	08/02/2006	0.08	mg/l
SAR in Water	224	73.30	12/16/2002	23.40	09/30/2008	42.86	none
Sulfate	223	50.00	09/28/2006	0.00	09/02/2015	12.06	mg/l
Sulfide	22	0.80	08/22/2002	0.03	09/28/2006	0.24	mg/l
Total Dissolved Solids	225	1,110	10/06/2020	789	08/02/2006	934	mg/l
Conductivity, Field	242	2,874	02/10/2016	1,101	10/05/2006	1,545	μmhos
		-,•••				.,•.•	p
pH. Field	241	10.01	07/29/2009	6.90	11/04/2019	8.52	units
pH, Field Temperature (°C), Field	241 238	<u>10.01</u> 22.70	07/29/2009 08/02/2016	<u>6.90</u> 5.80	11/04/2019 01/26/2010	8.52 12.08	units (°C)
Temperature (°C), Field	241 238 234	22.70	08/02/2016	5.80	01/26/2010	12.08	units (°C) Ft.
	238						(°C)
Temperature (°C), Field	238	22.70	08/02/2016	5.80	01/26/2010	12.08	(°C)
Temperature (°C), Field Water Level, Field	238 234	22.70 547.26	08/02/2016 11/10/2010	5.80 468.30	01/26/2010 07/01/2002	12.08 506.49	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	238 234 No. of Samples 32	22.70 547.26	08/02/2016 11/10/2010	5.80 468.30	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006	12.08 506.49	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters Metals	238 234 No. of Samples	22.70 547.26 High	08/02/2016 11/10/2010 Date	5.80 468.30 Low	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006	12.08 506.49 Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	238 234 No. of Samples 32	22.70 547.26 <b>High</b> 1.26	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020	5.80 468.30 Low	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006	12.08 506.49 <b>Average</b> 0.20	(°C) Ft. Units mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	238 234 No. of Samples 32 32	22.70 547.26 High 1.26 0.0009	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008	5.80 468.30 Low 0.03 0.0003	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021	12.08 506.49 Average 0.20 0.0005	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	238 234 No. of Samples 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021	5.80 468.30 Low 0.03 0.0003 0.00	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017	12.08 506.49 Average 0.20 0.0005 0.03	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226	22.70 547.26 High 1.26 0.0009 0.16 U 0.97	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32 227	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U 1.10	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 227 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U 1.10 U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 14.30 0.02 U 2.08 0.04	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U 1.10 U U U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 14.30 0.02 U 2.08 0.04 0.17	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/06/2019 05/14/2020	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U 1.10 U 1.10 U U 0.01	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2004 08/22/2002 08/21/2003	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 2.98 U U 0.20 U 0.20 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 14.30 0.02 U 2.08 0.04	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/06/2019	5.80 468.30 Low 0.03 0.0003 0.00 U 0.34 U 1.10 U 1.10 U U 0.01 U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2004 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U U 0.20 U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	238 234 No. of Samples 32 32 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 14.30 0.02 U 2.08 0.04 0.17	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/06/2019 05/14/2020	5.80 468.30 <b>Low</b> 0.03 0.0003 0.00 U 0.34 U 1.10 U 1.10 U U 0.01 U 0.08	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2004 08/22/2002 08/21/2003	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 2.98 U U 0.20 U 0.20 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.19 0.0004	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/06/2019 05/14/2020 05/14/2020 09/30/2008 09/30/2008	5.80 468.30 <b>Low</b> 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.01 U 0.01 U 0.08 0.60 0.01 U	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2004 08/22/2002 08/21/2003 11/27/2002 03/14/2008 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 U 0.20 U 0.20 0.0005 U 0.000 U 0.000 U 0.0005 U 0.000 U U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0.000 U 0 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved	238 234 No. of Samples 32 32 32 32 32 226 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.17 4.40 0.19 0.0004 0.12	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/14/2020 05/14/2020 05/14/2020 05/14/2020 05/14/2020 09/30/2008 09/30/2008 09/28/2006 08/22/2002	5.80 468.30 <b>Low</b> 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.01 U 0.01 U 0.08 0.60 0.01	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2002 08/21/2003 11/27/2002 03/14/2008 08/22/2002 08/18/2010	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 U 0.20 0 0.005 0.0	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	238 234 No. of Samples 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.17 4.40 0.19 0.0004 0.12 0.03	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/14/2020 05/06/2019 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/30/2008	5.80 468.30 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.34 U 0.01 U 0.01 U 0.08 0.60 0.01 U 0.01 0.01	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2002 08/21/2003 11/27/2002 03/14/2008 08/22/2002 03/14/2008 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 U 0.20 0 0.00 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lithium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.17 4.40 0.19 0.0004 0.12	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/30/2008 09/28/2006 08/22/2002 09/30/2008 07/24/2002	5.80 468.30 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.34 U 0.01 U 0.01 U 0.08 0.60 0.01 U 0.01	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2004 08/22/2002 08/21/2003 11/27/2002 03/14/2008 08/22/2002 08/18/2010 12/03/2012 11/21/2008	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 U 0.20 0 0.005 0.0	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	238 234 No. of Samples 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.17 4.40 0.19 0.0004 0.12 0.03	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/14/2020 05/06/2019 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/30/2008	5.80 468.30 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.34 U 0.01 U 0.01 U 0.08 0.60 0.01 U 0.01 0.01	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2002 08/21/2003 11/27/2002 03/14/2008 08/22/2002 03/14/2008 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 U 0.20 0 0.00 0 0.00 0 0 0.00 0 0 0.00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lithium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.17 4.40 0.19 0.0004 0.12 0.03 6.20	08/02/2016 11/10/2010 <b>Date</b> 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/30/2008 09/28/2006 08/22/2002 09/30/2008 07/24/2002	5.80 468.30 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.34 U 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2004 08/22/2002 08/21/2003 11/27/2002 03/14/2008 08/22/2002 08/18/2010 12/03/2012 11/21/2008	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 0.03 U 0.20 0.03 U 0.20 0.005 0.03 0.03 0.03 0.03 0.02 0.03 0.02 0.03 0.02 0.03 0.03	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.19 0.004 0.17 4.40 0.19 0.0004 0.12 0.03 6.20 0.0001 29.30 451.00	08/02/2016 11/10/2010 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 08/22/2002 05/14/2020 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/28/2006 08/22/2002 09/30/2008 09/28/2006 08/22/2002 09/30/2008 09/28/2002 05/06/2019 04/17/2002 08/03/2021	5.80 468.30 0.03 0.0003 0.00 U 0.34 U 1.10 U 1.10 U 0.01 0.01 0.01 0.01 0.0	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2002 08/21/2003 08/22/2002 08/18/2010 12/03/2012 11/21/2008 08/22/2002 08/22/2002 08/22/2002 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 0.03 U 0.20 0.03 U 0.20 0.03 U 0.72 U 0.20 0.03 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.74 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.74 U 0.72 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.17 4.40 0.19 0.0004 0.12 0.03 6.20 0.0001 29.30	08/02/2016 11/10/2010 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 11/05/2021 09/28/2006 08/22/2002 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/30/2008 09/28/2006 08/22/2002 09/30/2008 09/28/2006 08/22/2002 09/30/2008 09/28/2002 05/06/2019 04/17/2002 08/03/2021 11/03/2020	5.80 468.30 0.03 0.0003 0.00 U 0.34 U 1.10 U 0.34 U 0.34 U 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 11/27/2002 08/21/2003 11/27/2002 08/18/2010 12/03/2012 11/21/2008 08/22/2002 08/22/2002 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 0.03 U 0.20 0.03 U 0.20 0.005 0.03 U 0.72 U 0.20 0.005 0.03 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.74 U 0.72 U 0.72 U 0.72 U 0.74 U 0.72 U 0.74 U 0.72 U 0.72 U 0.72 U 0.72 U 0.74 U 0.72 U 0 U 0.72 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U 0 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	238 234 No. of Samples 32 32 32 32 226 32 227 32 32 32 32 32 32 32 32 32 32 32 32 32	22.70 547.26 High 1.26 0.0009 0.16 U 0.97 U 14.30 0.02 U 2.08 0.04 0.17 4.40 0.19 0.004 0.17 4.40 0.19 0.0004 0.12 0.03 6.20 0.0001 29.30 451.00	08/02/2016 11/10/2010 05/14/2020 09/30/2008 05/04/2021 08/22/2002 07/12/2007 05/18/2006 08/22/2002 05/14/2020 05/14/2020 05/06/2019 05/14/2020 09/30/2008 09/28/2006 08/22/2002 09/30/2008 09/28/2006 08/22/2002 09/30/2008 09/28/2002 05/06/2019 04/17/2002 08/03/2021	5.80 468.30 0.003 0.0003 0.00 U 0.34 U 1.10 U 1.10 U 0.01 0.01 0.01 0.01 0.0	01/26/2010 07/01/2002 <b>Date</b> 05/18/2006 05/04/2021 07/06/2017 08/12/2004 08/21/2003 09/30/2008 12/16/2002 05/18/2006 08/21/2003 08/12/2002 08/21/2003 08/22/2002 08/18/2010 12/03/2012 11/21/2008 08/22/2002 08/22/2002 08/22/2002 08/22/2002	12.08 506.49 <b>Average</b> 0.20 0.0005 0.03 U 0.72 U 2.98 U U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.20 0.03 U 0.20 0.03 U 0.20 0.03 U 0.72 U 0.20 0.03 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.72 U 0.20 0.72 U 0.74 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.72 U 0.74 U 0.72 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U 0.75 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 29: BG-4 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC. 201 Star Contraction



<b></b>			<b>_</b>		·		
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	F 000 00	10/01/0000	447.00	00/00/0011	1 1 50 0	
Bicarbonate as CaCO3	138	5,090.00	12/01/2020	447.00		1,150.9	mg/l
Carbonate as CaCO3	138	<u>2,120.00</u> 7,210.00	11/03/2020	43.10	02/10/2016	189.36	mg/l
Total Alkalinity as CaCO3	138		11/03/2020		05/14/2014	1,340.4	mg/l
Bromide	14	0.94	07/10/2013	0.00	11/10/2014	0.47	mg/l
Cation-Anion Balance	138	7.90	10/28/2010	-11.80	07/07/2020	-3.09	%
Sum of Anions	138	191.00	12/01/2020	15.00	05/14/2014	36.84	meq/l
Sum of Cations Chemical Oxygen Demand	138	<u>188.00</u> 320.00	<u>11/03/2020</u> 09/22/2010	<u>14.90</u> 16.00	05/06/2013 10/12/2015	34.57	meq/l
	14 138		12/01/2020			66.50	mg/l mg/l
Chloride Conductivity, Lab	138	1,630.00		14.20 1,420	11/30/2015	<u>314.59</u> 3,241	
	138	15,000	11/03/2020 12/01/2020		01/11/2016 02/23/2010		µmhos
Fluoride		34.80		9.80	12/01/2020	22.86	mg/l
Hardness as CaCO3	138	44.00	10/28/2010	4.00 0.02		18.03	mg/l
Nitrate as N, dissolved	<u>15</u> 15	0.07	11/10/2014		10/07/2009	0.04	mg/l
Nitrate/Nitrite as N,	15	0.07	11/10/2014	0.02	10/07/2009	0.04	mg/l
Nitrite as N, dissolved	15	0.00	11/10/2014	0.00	11/10/2014	0.00	mg/l
Nitrogen, Ammonia		2.32	05/07/2020	0.56	10/07/2009	1.05 1.07	mg/l
Nitrogen, Organic	15	3.90	09/22/2010	0.20	12/13/2012 10/12/2015		mg/l
Nitrogen, Total Kjeldahl	15	5.10	09/22/2010	0.80		2.04	mg/l
pH, lab	138	9.60	03/22/2011	6.10	04/02/2019	8.87	units
Phosphate, total	15	155.00	10/07/2009	0.06	10/12/2015	18.38	mg/l
Phosphorus, total	15	0.70	05/07/2020	0.02	10/12/2015	0.16	mg/l
SAR in Water	138	820.00	12/01/2020	39.20	11/10/2010	81.14	none
Sulfate	138	110.00	11/10/2010	0.00	11/22/2011	29.94	mg/l
Sulfide	15	1.33	08/11/2011	0.00	11/10/2014	0.47	mg/l
Total Dissolved Solids	138	10,200	11/03/2020	829	05/14/2014	1,964	mg/l
Conductivity, Field	165	27,480	12/15/2020	1,232	06/05/2017	3,236	<u>µmhos</u>
pH, Field	163	9.66	02/04/2011	6.70	11/04/2019	8.61	units
Temperature (°C), Field	<u>165</u> 157	<u>21.00</u> 541.00	08/18/2010	7.10 511.95	02/05/2014	12.38 529.55	<u>(°C)</u> Ft.
Water Level, Field	157	341.00	10/03/2020	511.95	02/10/2020	329.33	Γι.
		011100		011100			
Darameters			•				
Parameters Metals	No. of	High	Date	Low	Date	Average	Units
Metals	No. of Samples	High	Date	Low	Date	Average	Units
Metals Aluminum, dissolved	No. of Samples 14	<b>High</b> 0.10	<b>Date</b> 08/18/2010	<b>Low</b>	<b>Date</b> 08/11/2011	<b>Average</b> 0.06	Units mg/l
Metals Aluminum, dissolved Arsenic, dissolved	No. of Samples 14 14	High 0.10 0.01	Date 08/18/2010 11/10/2010	Low 0.04 0.0003	Date 08/11/2011 11/10/2014	Average 0.06 0.0027	Units mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	No. of Samples 14 14 14	High 0.10 0.01 3.06	Date 08/18/2010 11/10/2010 05/07/2020	Low 0.04 0.0003 0.04	Date 08/11/2011 11/10/2014 10/07/2009	Average 0.06 0.0027 0.76	Units mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	No. of Samples 14 14 14 14 14	High 0.10 0.01 3.06 U	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020	Low 0.04 0.0003 0.04 U	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020	Average 0.06 0.0027 0.76 U	Units mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	No. of Samples 14 14 14 14 14 138	High 0.10 0.01 3.06 U 8.32	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020	Low 0.04 0.0003 0.04 U 0.45	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009	Average 0.06 0.0027 0.76 U 1.12	Units mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	No. of Samples 14 14 14 14 14 138 14	High 0.10 0.01 3.06 U 8.32 U	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020	Low 0.04 0.0003 0.04 U 0.45 U	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020	Average 0.06 0.0027 0.76 U 1.12 U	Units mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	No. of Samples 14 14 14 14 138 138 14 138	High 0.10 0.01 3.06 U 8.32 U 7.70	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010	Low 0.04 0.0003 0.04 U 0.45 U 1.60	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018	Average 0.06 0.0027 0.76 U 1.12 U 3.00	Units mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	No. of Samples 14 14 14 14 138 14 138 14 138 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U	Units mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	No. of Samples 14 14 14 14 138 14 138 14 138 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 05/07/2020 05/07/2020 07/05/2017	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	No. of Samples 14 14 14 14 138 14 138 14 138 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 05/07/2020 07/05/2017 10/07/2009	Low 0.004 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 14 14 14 14 138 14 138 14 138 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2020 10/07/2009 12/04/2012 05/07/2020	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	No. of Samples 14 14 14 14 138 14 138 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 05/07/2020 05/07/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals         Aluminum, dissolved         Arsenic, dissolved         Barium, dissolved         Beryllium, dissolved         Boron, dissolved         Cadmium, dissolved         Calcium, dissolved         Chromium, dissolved         Copper, dissolved         Iron, dissolved         Lead, dissolved         Lithium, dissolved         Magnesium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 138	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 05/07/2020 10/28/2010 10/28/2010	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 138 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 05/07/2020 10/28/2010 10/28/2010 10/07/2009	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 138 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 05/07/2020 07/05/2017 10/07/2009 05/07/2020 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 138 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 11/10/2010	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 11/10/2010 05/07/2019	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.02	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 03/09/2014	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05 34.80	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 11/10/2010 05/07/2019 08/02/2010	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.02 0.01 0.02 0.04	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 07/10/2013 11/01/2016	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04 2.08	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05 34.80 0.01	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 11/10/2010 05/07/2019 08/02/2010 11/10/2010	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.02 0.01 0.02 0.00 0.01 0.02 0.00 0.01 0.02 0.00 0.	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 07/10/2013 11/01/2016 08/11/2011	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04 2.08 0.00	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05 34.80 0.01 16.00	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 05/07/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2009 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2019 05/07/2019 08/02/2010 11/10/2010 11/03/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.01 0.02 0.60 0.00 0.50	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 07/10/2013 11/01/2016 08/11/2011 02/17/2011	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04 2.08 0.00 12.62	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05 34.80 0.01 16.00 4250	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2020 05/07/2020 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2019 05/07/2020 11/10/2010 05/07/2019 08/02/2010 11/10/2010 11/03/2020 11/03/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.01 0.02 0.60 0.00 0.50 332.00	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 03/09/2014 07/10/2013 11/01/2013 11/01/2013 11/01/2013 05/07/2021 02/17/2011 02/17/2011 02/17/2013	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04 2.08 0.00 12.62 774.84	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Strontium, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05 34.80 0.01 16.00 4250 3.16	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2020 05/07/2020 05/07/2020 10/28/2010 10/07/2009 05/07/2020 11/10/2010 11/02/201 11/10/2010 11/03/2020 11/03/2020 03/04/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.01 0.02 0.03 0.01 0.01 0.02 0.60 0.00 0.02 0.60 0.04 0.02 0.03 0.04 0.45 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.01 0.02 0.03 0.04 0.02 0.03 0.04 0.02 0.03 0.01 0.02 0.03 0.04 0.02 0.03 0.01 0.02 0.03 0.02 0.03 0.04 0.02 0.05 0.04 0.02 0.05 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.02 0.04 0.04 0.02 0.04 0.02 0.04 0.04 0.05 0.04 0.04 0.04 0.04 0.05 0.04 0.	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 03/09/2014 07/10/2013 11/01/2013 11/01/2013 11/01/2013 05/07/2020 03/11/2011 02/17/2011 05/06/2013 08/02/2010	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04 2.08 0.00 12.62 774.84 1.07	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Silica, dissolved	No. of Samples 14 14 14 14 14 138 14 14 14 14 14 14 14 14 14 14 14 14 14	High 0.10 0.01 3.06 U 8.32 U 7.70 U 0.07 0.90 U 0.36 5.90 0.03 U 1.31 0.05 34.80 0.01 16.00 4250	Date 08/18/2010 11/10/2010 05/07/2020 05/07/2020 11/03/2020 10/28/2010 05/07/2020 07/05/2017 10/07/2020 05/07/2020 05/07/2020 10/28/2010 10/07/2009 05/07/2020 10/28/2010 10/07/2019 05/07/2020 11/10/2010 05/07/2019 08/02/2010 11/10/2010 11/03/2020 11/03/2020	Low 0.04 0.0003 0.04 U 0.45 U 1.60 U 0.02 0.03 U 0.17 1.30 0.01 U 0.01 0.01 0.02 0.60 0.00 0.50 332.00	Date 08/11/2011 11/10/2014 10/07/2009 05/07/2020 11/19/2009 05/07/2020 06/04/2018 05/07/2020 10/07/2009 12/04/2012 05/07/2020 10/07/2009 03/09/2014 07/10/2013 05/07/2020 10/07/2009 03/09/2014 07/10/2013 11/01/2013 11/01/2013 11/01/2013 05/07/2021 02/17/2011 02/17/2011 02/17/2013	Average 0.06 0.0027 0.76 U 1.12 U 3.00 U 0.05 0.16 U 0.21 2.56 0.01 U 0.30 0.04 2.08 0.00 12.62 774.84	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 30: BG-5 Annual B-Groove Aquifer (P&A Winter 2021)

DAUB & ASSOCIATES, INC. 2013 State State State State



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples					Julia	•
Bicarbonate as CaCO3	137	869.00	12/18/2013	541.00	12/08/2010	673.92	mg/l
Carbonate as CaCO3	136	219.00	12/08/2010	48.10	02/10/2020	87.92	mg/l
Total Alkalinity as CaCO3	137	1,040.00	12/18/2013	633.00	06/11/2014	761.22	mg/l
Bromide	14	<u> </u>	01/13/2011	U	12/27/2012	U	mg/l
Cation-Anion Balance	136	5.90	04/09/2014	-9.70	01/12/2021	-2.50	%
Sum of Anions	136	23.00	12/18/2013	14.30	06/11/2014	16.91	meq/l
Sum of Cations	136	20.00	12/18/2013	13.10	04/11/2011	16.09	meg/l
Chemical Oxygen Demand	13	800.00	01/13/2011	21.00	12/31/2018	232.73	mg/l
Chloride	118	70.00	12/08/2010	10.00	01/20/2011	15.85	mg/l
Conductivity, Lab	137	8,820	06/03/2019	1,320	07/05/2017	1,567	μmhos
Fluoride	136	27.80	06/03/2019	14.60	09/17/2012	23.45	mg/l
Hardness as CaCO3	136	16.00	09/05/2017	10.00	09/11/2013	12.62	mg/l
Nitrate as N, dissolved	14	0.03	12/27/2012	UH	10/12/2015	U	mg/l
Nitrate/Nitrite as N,	14	0.03	12/27/2012	UH	10/12/2015	U	mg/l
Nitrite as N, dissolved	14	<u> </u>	12/27/2012	UH	10/12/2015	U	mg/l
Nitrogen, Ammonia	14	0.95	10/12/2012	0.71	01/20/2011	0.82	mg/l
Nitrogen, Organic	13		01/13/2011		10/12/2015	2.49	
Nitrogen, Total Kjeldahl	13	<u>8.30</u> 9.00	01/13/2011	0.80	05/14/2020	3.11	mg/l mg/l
pH, lab	137			8.30			
		9.40	12/08/2010 08/11/2011		06/08/2021 01/13/2011	8.81	units
Phosphate, total	13	77.50		0.09		6.08	mg/l
Phosphorus, total	13	0.09	07/10/2013	0.03	01/13/2011	0.04	mg/l
SAR in Water	136	56.60	12/18/2013	37.80	04/11/2011	44.44	none
Sulfate	136	20.00	01/13/2011	3.45	11/02/2016	12.06	mg/l
Sulfide	13	0.10	01/20/2011	0.03	07/10/2013	0.05	mg/l
Total Dissolved Solids	136	1,130	12/18/2013	799	05/14/2014	884	mg/l
Conductivity, Field	134	2,413	09/17/2012	1,232	06/05/2017	1,488	µmhos
pH, Field	132	9.58	03/05/2012	6.60	11/04/2019	8.34	units
Temperature (°C), Field	134	23.00	09/05/2017	4.62	11/22/2011	11.82	(°C)
					11/22/2011		
Temperature (°C), Field Water Level, Field	134 133	23.00 517.10	09/05/2017 08/07/2017	4.62 493.95	11/22/2011 10/12/2015	11.82 507.57	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	134 133 <b>No. of</b>	23.00	09/05/2017	4.62	11/22/2011	11.82	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	134 133 No. of Samples	23.00 517.10 High	09/05/2017 08/07/2017 Date	4.62 493.95 Low	11/22/2011 10/12/2015 Date	11.82 507.57 Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	134 133 No. of Samples 14	23.00 517.10 High 0.04	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011	4.62 493.95 Low	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012	11.82 507.57 <b>Average</b> U	(°C) Ft. Units mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	134 133 <b>No. of</b> <b>Samples</b> 14 14	23.00 517.10 High 0.04 0.0619	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011	4.62 493.95 Low U 0.0002	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016	11.82 507.57 <b>Average</b> U 0.0058	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	134 133 <b>No. of</b> <b>Samples</b> 14 14 14	23.00 517.10 High 0.04 0.0619 0.39	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011	4.62 493.95 Low U 0.0002 0.31	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017	11.82 507.57 <b>Average</b> U 0.0058 0.34	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14	23.00 517.10 High 0.04 0.0619 0.39 0.00	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014	4.62 493.95 Low U 0.0002 0.31 U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021	11.82 507.57 <b>Average</b> U 0.0058 0.34 U	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           133	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013	4.62 493.95 Low U 0.0002 0.31 U 0.62	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           14           14           14           14           14           14           14           14           14           14           14           136           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           14           136           14           136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           136           14           136           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           136           14           136           14           136           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U U U U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 05/14/2020	11.82 507.57 Average U 0.0058 0.34 U 0.72 U 2.42 U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	134           133           No. of           Samples           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.04 0.19	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U U U 0.07	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.04 0.19 0.05	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 05/14/2020 12/04/2012 08/11/2011	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U U U 0.07 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	134           133           No. of           Samples           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.04 0.19 0.05 0.13	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012 01/13/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U U 0.02 U 0.11	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 05/14/2020 12/04/2012 08/11/2011 07/05/2017	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U U 0.07 U 0.07 U 0.12	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           14           136           14           14           14           14           14           14           136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.04 0.19 0.05 0.13 1.90	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012 01/13/2011 03/09/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U U 0.02 U 0.11 1.30	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/14/2020 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U U 0.07 U 0.07 U 0.12 1.59	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           14           14           14           14           14           14           136           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.04 0.19 0.05 0.13 1.90 0.009	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012 01/13/2011 03/09/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U U 0.11 1.30 U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/14/2020 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U U 0.07 U 0.07 U 0.12 1.59 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	134           133           No. of           Samples           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           14           14           14           14           14           14           14           14           14           14           136           14           136           14           136           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.62 U U 0.02 U U 0.02 U U 0.11 1.30 U U U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/14/2020 05/14/2020 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U 0.72 U U 0.07 U 0.07 U 0.12 1.59 U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           14           14           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.009 U 0.06	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U 0.11 1.30 U U U U U U U U U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/14/2020 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012	11.82 507.57 Average U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.07 U 0.12 1.59 U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved	134         133         No. of         Samples         14         14         14         14         14         14         14         14         14         14         14         136         14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.009 U 0.06 U	09/05/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011 08/11/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U 0.11 1.30 U U U U U U U U U U U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012	11.82 507.57 Average U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.12 1.59 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	134         133         No. of         Samples         14         14         14         14         14         14         14         14         14         14         14         136         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         14         136         14         14         136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.009 U 0.06	09/05/2017 08/07/2017 08/07/2017 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011 08/11/2011 12/08/2010	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.62 U U 0.02 U U 0.11 1.30 U U U U U U U U 0.60	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012 12/04/2012 12/04/2012	11.82 507.57 Average U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.07 U 0.12 1.59 U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	134         133         No. of         Samples         14         14         14         14         14         14         14         14         14         14         14         136         14         14         14         14         14         14         14         14         14         14         14         14         136         14         136         14         136         14         14         14         14         14	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.009 U 0.06 U 2.10 U	09/05/2017 08/07/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011 12/08/2010 08/11/2011	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.02 U 0.11 1.30 U U U U U U U U U U U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012 12/04/2012 12/04/2012	11.82 507.57 Average U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.12 1.59 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           14           136           14           136           14           136           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.009 U 0.06 U 2.10	09/05/2017 08/07/2017 08/07/2017 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011 08/11/2011 12/08/2010	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U 2.00 U 0.62 U 0.62 U U 0.02 U U 0.11 1.30 U U U U U U U U 0.60 U U U 1.10	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012 12/04/2012 12/04/2012	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.12 1.59 U U U U U U U U U 0.96	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           14           14           136           14           136           14           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           136           136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.009 U 0.06 U 2.10 U	09/05/2017 08/07/2017 08/07/2017 <b>Date</b> 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 05/06/2019 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 08/11/2011 12/08/2010 08/11/2011	4.62 493.95 Low 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.62 U U 0.02 U U 0.11 1.30 U U U U U U U U U U U U U U U U U U U	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012 12/04/2012 12/04/2012	11.82 507.57 Average U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.12 1.59 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           14           136           14           136           14           136           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           136           14           136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.06 U 2.10 U 17.80	09/05/2017 08/07/2017 08/07/2017 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 03/09/2011 01/13/2011 08/11/2011 12/08/2010 08/11/2011 08/03/2021	4.62 493.95 Low U 0.0002 0.31 U 0.62 U 2.00 U 2.00 U 2.00 U 0.62 U 0.62 U U 0.02 U U 0.11 1.30 U U U U U U U U 0.60 U U U 1.10	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/05/2017 12/08/2010 01/20/2011 07/10/2013 12/04/2012 12/04/2012 12/04/2012 12/04/2012 12/04/2012	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U 2.42 U U 0.07 U 0.12 1.59 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Solica, dissolved	134           133           No. of           Samples           14           14           14           14           14           14           14           14           14           14           136           14           136           14           14           14           14           14           14           14           14           14           136           14           136           14           136           14           136           14           136           14           136           14           136           136	23.00 517.10 High 0.04 0.0619 0.39 0.00 0.91 U 3.40 0.01 0.04 0.19 0.05 0.13 1.90 0.009 U 0.06 U 2.10 U 17.80 439.00	09/05/2017 08/07/2017 08/07/2017 01/13/2011 01/13/2011 01/13/2011 11/10/2014 12/18/2013 08/11/2011 09/05/2017 12/31/2018 12/04/2012 01/13/2011 03/09/2011 01/13/2011 03/09/2011 01/13/2011 08/11/2011 08/11/2011 12/08/2010 08/11/2011 08/03/2021 12/18/2013	4.62 493.95 Low 0.0002 0.31 U 0.62 U 2.00 U 2.00 U U 0.62 U 0.62 U U 0.02 U U 0.11 1.30 U U U U U U U U 0.60 U U U 0.60 U U 0.60 U U 0.60 U 0.002	11/22/2011 10/12/2015 <b>Date</b> 12/04/2012 04/12/2016 07/05/2017 05/04/2021 12/08/2010 05/04/2021 09/11/2013 05/14/2020 12/04/2012 08/11/2011 07/10/2013 12/04/2012 12/04/2012 12/04/2012 12/04/2012 12/04/2012 12/04/2012 12/04/2012 12/04/2012 12/04/2012	11.82 507.57 <b>Average</b> U 0.0058 0.34 U 0.72 U 2.42 U U U 0.07 U U 0.12 1.59 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 31: BG-6 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC. 2013 State Contraction of the State of the S



Devemetere	No of	Lliah	Dete	Low	Dete	Averege	Unito
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	Samples 8	912	06/02/2020	501	12/15/2015	694	mg/l
Carbonate as CaCO3	8	307	12/15/2015	80	06/02/2020	190	mg/l
Total Alkalinity as CaCO3	8	992	06/02/2020	808	12/15/2015	884	mg/l
Bromide	8	0.14	10/18/2014	0.13	09/28/2017	0.13	mg/l
Cation-Anion Balance	8	2.40	06/25/2019	-4.80	06/02/2020	-0.83	%
Sum of Anions	8	24.00	10/18/2014	20.00	06/25/2019	22.38	meq/l
Sum of Cations	8	24.00	10/18/2014	20.00	06/02/2020	22.00	meq/l
Chemical Oxygen Demand	8	30.00	06/25/2019	10.00	06/02/2020	21.13	mg/l
Chloride	8	201	12/15/2015	18	06/09/2021	121	mg/l
Conductivity, Lab	8	2,340	10/18/2014	1,770	06/02/2020	2,066	μmhos
Fluoride	8	23.70	06/09/2021	18.20	12/15/2015	20.70	mg/l
Hardness as CaCO3	8	13.00	10/18/2014	11.00	04/05/2016	11.99	mg/l
Nitrate as N, dissolved	8	0.02	10/18/2014	UH	12/15/2015	UH	mg/l
Nitrate/Nitrite as N,	8	0.02	10/18/2014	ŬH	12/15/2015	ŬH	mg/l
Nitrite as N, dissolved	8	0.01	12/15/2015	0.00	10/18/2014	UH	mg/l
Nitrogen, Ammonia	8	1.22	10/18/2014	0.81	06/20/2018	1.04	mg/l
Nitrogen, Organic	8	1.20	06/20/2018	0.20	10/18/2014	0.63	mg/l
Nitrogen, Total Kjeldahl	8	2.00	09/28/2017	1.06	06/09/2021	1.55	mg/l
pH, lab	8	9.60	12/15/2015	8.30	06/09/2021	9.10	units
Phosphate, total	8	0.40	12/15/2015	0.06	06/09/2021	0.15	mg/l
Phosphorus, total	8	0.13	12/15/2015	0.02	06/09/2021	0.05	mg/l
SAR in Water	8	66	04/05/2016	53.00	06/09/2021	61	none
Sulfate	8	40	10/18/2014	5.58	06/20/2018	16	mg/l
Sulfide	8	0.15	06/25/2019	0.02	06/02/2020	0.10	mg/l
Total Dissolved Solids	8	1,350	10/18/2014	1,070	06/09/2021	1,198	mg/l
Conductivity, Field	9	2,575	12/15/2015	1,594	10/25/2018	2,030	µmhos
	9	0 40	00/00/0040	0 00		0.00	unite
pH, Field		9.40	06/20/2018	8.00	06/02/2020	8.69	units
Temperature (°C), Field	9	22.50	10/18/2014	11.49	10/25/2018	15.03	(°C)
Temperature (°C), Field Water Level, Field	9 9	22.50 480.10	10/18/2014 09/28/2017	11.49 470.30	10/25/2018 10/25/2018	15.03 476.24	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	9 9 <b>No. of</b>	22.50	10/18/2014	11.49	10/25/2018	15.03	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	9 9 No. of Samples	22.50 480.10 High	10/18/2014 09/28/2017 Date	11.49 470.30 <b>Low</b>	10/25/2018 10/25/2018 Date	15.03 476.24 Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	9 9 No. of Samples 8	22.50 480.10 High 0.08	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014	11.49 470.30 <b>Low</b> U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016	15.03 476.24 <b>Average</b> 0.07	(°C) Ft. Units mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	9 9 No. of Samples 8 8	22.50 480.10 High 0.08 0.03	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014	11.49 470.30 Low U U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017	15.03 476.24 Average 0.07 0.01	(°C) Ft. <b>Units</b> mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	9 9 <b>No. of</b> <u>Samples</u> 8 8 8	22.50 480.10 High 0.08 0.03 0.40	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021	11.49 470.30 Low U U 0.02	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015	15.03 476.24 Average 0.07 0.01 0.17	(°C) Ft. <b>Units</b> mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	9 9 No. of Samples 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014	11.49 470.30 Low U U 0.02 U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U	(°C) Ft. <b>Units</b> mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	9 9 <b>No. of</b> <b>Samples</b> 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021	11.49 470.30 Low U U 0.02 U 0.56	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	9 9 <b>No. of</b> <b>Samples</b> 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014	11.49 470.30 Low U U 0.02 U 0.56 U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	9 9 <b>No. of</b> <b>Samples</b> 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014	11.49 470.30 Low U U 0.02 U 0.56 U U U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	9 9 <b>No. of</b> <b>Samples</b> 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014	11.49 470.30 Low U U U 0.02 U 0.56 U U U U U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U U U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014	11.49 470.30 Low U U U 0.02 U 0.56 U U U U U U U U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 09/28/2017	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 0.83 U 3.60 U U 0.36	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017	11.49 470.30 Low U U 0.02 U 0.56 U U U U U U U U 0.06	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U U 0.17	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U 3.60 U U 0.36 U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2014	11.49 470.30 U U U U 0.02 U 0.56 U U U U U U U U U U U U U U U U U U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U 2.20 U U 0.17 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 0.83 U 3.60 U U 0.36 U U 0.36 U 0.17	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U U 0.06 U 0.09	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017 06/02/2020	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U U 0.17 U 0.13	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 0.83 U 3.60 U U 0.36 U U 0.36 U 0.17 1.90	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2016 09/28/2017	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U 0.06 U 0.09 1.00	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017 06/02/2020 10/18/2014	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U U 0.17 U 0.13 1.62	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 0.83 U 3.60 U U 0.36 U U 0.36 U 0.17	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U U 0.06 U 0.09	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017 06/02/2020 10/18/2014 12/15/2015	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U U 0.17 U 0.13	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U 0.36 U U 0.36 U 0.36 U 0.17 1.90 0.02	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2014 04/05/2016 09/28/2017 04/05/2016 12/15/2015	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U 0.06 U 0.09 1.00 0.01 U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U 0.36 U U 0.36 U 0.36 U 0.17 1.90 0.02 U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2016 09/28/2017	11.49 470.30 Low U U 0.02 U 0.56 U U U U U U 0.06 U 0.09 1.00 0.01	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 09/28/2017 12/15/2015 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019 06/20/2018	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 0.83 U 3.60 U 0.36 U 0.36 U 0.36 U 0.17 1.90 0.02 U 0.14	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2016 09/28/2017 04/05/2016 12/15/2015 10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U 0.06 U 0.09 1.00 0.01 U 0.05	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U 0.09	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U 0.36 U 0.36 U 0.36 U 0.17 1.90 0.02 U 0.14 U	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 04/05/2016 12/15/2015 10/18/2014 12/15/2015	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U U 0.06 U 0.09 1.00 0.01 U 0.05 U	10/25/2018 10/25/2018 <b>Date</b> 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 12/15/2015 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019 06/20/2018 06/25/2019	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U 0.09 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U 0.36 U 0.36 U 0.36 U 0.17 1.90 0.02 U 0.14 U 0.14 U 14.50	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 10/18/2014 09/28/2017 04/05/2016 12/15/2015 10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U 0.06 U 0.09 1.00 0.01 U 0.05 U 0.90	10/25/2018 10/25/2018 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019 06/25/2019	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U 0.09 U 7.69	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U U 0.36 U 0.17 1.90 0.02 U 0.14 U 14.50 0.002	10/18/2014 09/28/2017 <b>Date</b> 10/18/2014 10/18/2014 06/09/2021 10/18/2014 06/09/2021 10/18/2014 10/18/2014 10/18/2014 09/28/2017 10/18/2014 04/05/2016 12/15/2015 10/18/2014 12/15/2015 10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U 0.06 U 0.09 1.00 0.01 U 0.05 U 0.05 U 0.90 U U	10/25/2018 10/25/2018 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019 06/25/2019 06/25/2019	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U 0.09 U 7.69 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 3.60 U U 0.36 U 0.36 U 0.17 1.90 0.02 U 0.14 U 14.50 0.002 18.90	10/18/2014           09/28/2017           Date           10/18/2014           10/18/2014           06/09/2021           10/18/2014           06/09/2021           10/18/2014           06/09/2021           10/18/2014           06/09/2021           10/18/2014           09/28/2017           10/18/2014           09/28/2017           04/05/2016           12/15/2015           10/18/2014           12/15/2015           10/18/2014           12/15/2015           10/18/2014           10/18/2014           10/18/2014           10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U U 0.06 U 0.09 1.00 0.01 U 0.05 U 0.05 U 0.90 U 0.90	10/25/2018 10/25/2018 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 06/20/2018 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019 06/25/2019 06/25/2019 04/05/2016 12/15/2015	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U 0.09 U 7.69 U 8.08	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	9 9 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	22.50 480.10 High 0.08 0.03 0.40 U 0.83 U 0.83 U 0.83 U 0.83 U 0.360 U 0.36 U 0.36 U 0.17 1.90 0.02 U 0.14 U 14.50 0.002 18.90 536	10/18/2014           09/28/2017           Date           10/18/2014           10/18/2014           06/09/2021           10/18/2014           06/09/2021           10/18/2014           06/09/2021           10/18/2014           06/09/2021           10/18/2014           09/28/2017           10/18/2014           09/28/2017           04/05/2016           12/15/2015           10/18/2014           12/15/2015           10/18/2014           10/18/2014           10/18/2014           10/18/2014           10/18/2014           10/18/2014           10/18/2014           10/18/2014           10/18/2014	11.49 470.30 U U U 0.02 U 0.56 U U U U U U U U 0.06 U 0.09 1.00 0.01 U 0.05 U 0.05 U 0.90 U 0.90 435	10/25/2018 10/25/2018 04/05/2016 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 12/15/2015 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 09/28/2017 06/02/2020 10/18/2014 12/15/2015 06/25/2019 06/25/2019 04/05/2016 12/15/2015 06/02/2020	15.03 476.24 <b>Average</b> 0.07 0.01 0.17 U 0.69 U 2.20 U U 0.17 U 0.13 1.62 0.01 U 0.09 U 0.09 U 7.69 U 8.08 485	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 32: BG-7 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC.



Da		1	<b>D</b> -1	1	D-1	A	11 **
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	10.100	01/07/0001	500	00/05/0010	1.040	
Bicarbonate as CaCO3	28	13,100	01/07/2021	529	08/05/2019	1,843	mg/l
Carbonate as CaCO3	28	4,700	01/07/2021	185	10/10/2018	1,112	mg/l
Total Alkalinity as CaCO3	28	17,800	01/07/2021	793	08/05/2019	2,954	mg/l
Bromide	4	U	10/03/2018	U	05/07/2019	U	mg/l
Cation-Anion Balance	27	2.30	08/05/2019	-24.50	05/07/2019	-4.08	%
Sum of Anions	27	491.00	01/07/2021	20.00	10/10/2018	83.70	meq/l
Sum of Cations	27	410.00	01/07/2021	19.00	10/10/2018	74.07	meq/l
Chemical Oxygen Demand	4	50.00	05/14/2020	23.00	05/07/2019	36.50	mg/l
Chloride	27	4,710	01/07/2021	101	10/10/2018	823	mg/l
Conductivity, Lab	28	36,600	01/07/2021	1,840	10/10/2018	6,734	µmhos
Fluoride	27	59.10	01/07/2021	18.90	10/07/2019	25.99	mg/l
Hardness as CaCO3	27	29.00	01/07/2021	3.00	09/03/2020	10.23	mg/l
Nitrate as N, dissolved	4	UH	10/03/2018	UH	05/07/2019	UH	mg/l
Nitrate/Nitrite as N,	4	UH	10/03/2018	UH	05/07/2019	UH	mg/l
Nitrite as N, dissolved	4	UH	10/03/2018	UH	05/07/2019	UH	mg/l
Nitrogen, Ammonia	4	3.21	05/14/2020	1.37	10/10/2018	1.85	mg/l
Nitrogen, Organic	4	1.00	05/14/2020	0.30	10/03/2018	0.57	mg/l
Nitrogen, Total Kjeldahl	4	4.20	05/14/2020	1.70	10/03/2018	2.57	mg/l
pH, lab	28	9.80	11/04/2019	9.00	12/10/2020	9.51	units
Phosphate, total	4	4.40	05/14/2020	0.09	10/03/2018	1.26	mg/l
Phosphorus, total	4	1.42	05/14/2020	0.03	10/03/2018	0.41	mg/l
SAR in Water	27	1,100	09/03/2020	50.00	10/03/2018	228	none
Sulfate	27	59	07/07/2020	2.41	12/04/2018	20	mg/l
Sulfide	4	2.40	05/14/2020	0.08	10/03/2018	0.86	mg/l
Total Dissolved Solids	27	24,900	01/07/2021	1,060	10/10/2018	4,345	mg/l
Conductivity, Field	29	35,790	01/07/2021	1,560	09/09/2019	9,383	µmhos
pH, Field	28	9.59	02/10/2020	7.60	11/04/2019	9.04	units
Temperature (°C), Field	29	16.20	06/01/2020	8.07	02/11/2019	12.09	(°C)
Water Level, Field	28	532.50	12/10/2020	493.55	03/04/2020	513.14	Ft.
			·			•	
Parameters	No. of	High	Date	Low	Date	Average	Units
Parameters Metals			·	Low	Date	Average	Units
	No. of Samples 4		·	Low U	<b>Date</b> 05/14/2020	Average	Units mg/l
Metals	Samples	High	Date		05/14/2020	-	mg/l
Metals Aluminum, dissolved Arsenic, dissolved	Samples 4 4	High U	<b>Date</b> 05/14/2020	U	05/14/2020 10/10/2018	U 0.42	mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	Samples 4 4 4	High U 0.003	Date 05/14/2020 05/14/2020 05/14/2020	U 0.0002	05/14/2020 10/10/2018 05/07/2019	U	mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	Samples 4 4 4 4 4	High U 0.003 1.14 U	Date 05/14/2020 05/14/2020 05/14/2020 05/14/2020	U 0.0002 0.10 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020	U 0.42 0.42 U	mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	Samples 4 4 4	High U 0.003 1.14	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020	U 0.0002 0.10	05/14/2020 10/10/2018 05/07/2019	U 0.42 0.42	mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	Samples 4 4 4 4 27	High U 0.003 1.14 U 14.30 U	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020	U 0.0002 0.10 U 0.67 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020	U 0.42 0.42 U 2.92 U	mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	Samples           4           4           4           27           4           27           4	High U 0.003 1.14 U 14.30	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020	U 0.0002 0.10 U 0.67	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020	U 0.42 0.42 U 2.92	mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	Samples           4           4           4           27           4           277           4           277           4           277           4	High U 0.003 1.14 U 14.30 U 5.50 U	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020	U 0.42 0.42 U 2.92 U 1.82 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	Samples           4           4           4           27           4           277           4           27           4           27           4           27           4           27           4           27           4           27	High U 0.003 1.14 U 14.30 U 5.50 U 5.50 U 0.01	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/07/2019           05/14/2020           10/07/2019           05/14/2020           10/03/2018	U 0.0002 0.10 U 0.67 U 1.01 U 0.01	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018	U 0.42 0.42 U 2.92 U 1.82 U 0.01	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	Samples           4           4           4           27           4           277           4           27           4           27           4           27           4           27           4           27           4           27	High U 0.003 1.14 U 14.30 U 5.50 U	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/07/2019           05/14/2020           10/03/2018           10/03/2018	U 0.0002 0.10 U 0.67 U 1.01 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019	U 0.42 0.42 U 2.92 U 1.82 U 0.01 1.27	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	Samples           4           4           4           27           4           277           4           27           4           27           4           27           4           27           4           27           4           4           4           4           4           4           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/07/2019           05/14/2020           10/03/2018           10/03/2018           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020	U 0.42 0.42 U 2.92 U 1.82 U 0.01 1.27 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	Samples           4           4           4           27           4           277           4           27           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           10/03/2018           05/14/2020           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018	U 0.42 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	Samples           4           4           4           27           4           27           4           27           4           4           4           4           4           4           4           4           4           4           4           4           27	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           10/03/2018           05/14/2020           05/14/2020           10/03/2018           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 09/09/2019	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	Samples           4           4           4           27           4           27           4           27           4           27           4           27           4           27           4           27           4           4           4           4           4           4           4           4           4           4           4           4           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           10/03/2018           05/14/2020           05/14/2020           10/03/2018           05/14/2020           05/14/2020           12/10/2020           10/03/2018	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 09/09/2019 10/10/2018	U 0.42 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	Samples           4           4           4           27           4           27           4           27           4           27           4           27           4           27           4           4           4           4           4           4           4           4           4           4           4           4           4           4           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           05/14/2020           10/03/2018           05/14/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 09/09/2019 10/10/2018 05/14/2020	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved	Samples           4           4           4           27           4           27           4           27           4           27           4           27           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 09/09/2019 10/10/2018 05/14/2020 05/14/2020	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	Samples           4           4           4           27           4           27           4           27           4           27           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17 U	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 0.10 U	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 09/09/2019 10/10/2018 05/14/2020 05/14/2020	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	Samples           4           4           4           27           4           27           4           27           4           27	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17 U 35.40	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           10/07/2019           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/03/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 2.40	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/10/2018	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U 0.14 U 10.61	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	Samples           4           4           4           27           4           27           4           27           4           27           4	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17 U 35.40 0.00	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           12/10/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 2.40 0.00	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 09/03/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/10/2018 10/10/2018	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U 0.14 U 10.61 0.00	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	Samples           4           4           4           27           4           27           4           27           4           27           4           27           4           27           4           27           4           27           4           27	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17 U 35.40 0.00 18.00	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           12/10/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           09/03/2020           10/03/2018           01/07/2021	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 2.40 0.00 1.80	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/10/2018 10/10/2018 10/10/2018	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U 0.14 U 10.61 0.00 5.63	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	Samples           4           4           4           27           4           27           4           27           4           4           4           4           4           4           4           4           4           4           27           4           27           4           27           4           27           4           27           4           27           27           27           27           27           27           27           27           27           27	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17 U 35.40 0.00 18.00 9,300	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           12/10/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           01/07/2021           10/03/2018           01/07/2021	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 2.40 0.00 1.80 420	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 05/14/2020 10/10/2018 10/10/2018 10/10/2018	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U 0.14 U 10.61 0.00 5.63 1,672	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	Samples           4           4           4           27           4           27           4           27           4           4           4           4           4           4           4           4           4           27           4           27           4           27           4           27           4           27           27           27           27           27           27           27           27           27	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.41 5.93 0.03 U 0.17 U 35.40 0.00 18.00 9,300 1.76	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           01/07/2021           10/03/2018           01/07/2021           12/10/2020	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 2.40 0.00 1.80 420 0.35	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 05/14/2020 10/10/2018 10/10/2018 10/10/2018 10/10/2018 06/03/2019 12/04/2018 08/05/2019	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U 0.14 U 10.61 0.00 5.63 1,672 0.69	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	Samples           4           4           4           27           4           27           4           27           4           4           4           4           4           4           4           4           4           4           27           4           27           4           27           4           27           4           27           4           27           27           27           27           27           27           27           27           27           27	High U 0.003 1.14 U 14.30 U 5.50 U 0.01 2.40 U 0.41 5.93 0.03 U 0.17 U 35.40 0.00 18.00 9,300	Date           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           05/14/2020           01/07/2021           05/14/2020           10/07/2019           05/14/2020           10/03/2018           05/14/2020           12/10/2020           12/10/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           10/03/2018           05/14/2020           01/07/2021           10/03/2018           01/07/2021	U 0.0002 0.10 U 0.67 U 1.01 U 0.01 0.10 U 0.14 0.50 0.02 U 0.10 U 2.40 0.00 1.80 420	05/14/2020 10/10/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 10/03/2018 05/07/2019 05/14/2020 10/10/2018 05/14/2020 05/14/2020 05/14/2020 05/14/2020 10/10/2018 10/10/2018 10/10/2018	U 0.42 U 2.92 U 1.82 U 0.01 1.27 U 0.21 1.54 0.02 U 0.14 U 0.14 U 10.61 0.00 5.63 1,672	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 33: BG-9 (DS-5) Annual B-Groove Aquifer (P&A Winter 2021)

DAUB & ASSOCIATES, INC. TO THE THE THE WEATHER THE THE

Zinc, dissolved

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mg/l

05/14/2020 05/14/2020

U

05/14/2020

U



Devenetere	No. of	Link	Data	Low	Dete	A	Unite
Parameters Wet Chemistry	No. of Samples	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3	4	599	08/04/2021	446	09/03/2021	534	mg/l
Carbonate as CaCO3	4	323	09/03/2021	192	09/10/2021	250	mg/l
Total Alkalinity as CaCO3	4	802	08/04/2021	765	09/10/2021	784	mg/l
Bromide	3	<u> </u>	08/04/2021	<u>, 00</u>	09/10/2021	<u>, 0</u>	mg/l
Cation-Anion Balance	4	-2.90	08/04/2021	-5.90	11/12/2021	-3.68	%
Sum of Anions	4	18.00	08/04/2021	17.00	09/10/2021	17.75	meq/l
Sum of Cations	4	17.00	08/04/2021	16.00	09/10/2021	16.50	meg/l
Chemical Oxygen Demand	3	247.00	08/04/2021	16.00	09/10/2021	98.67	mg/l
Chloride	4	42	09/03/2021	28	08/04/2021	34	mg/l
Conductivity, Lab	4	1,610	09/03/2021	1,540	09/10/2021	1,575	μmhos
Fluoride	4	21.00	09/03/2021	20.10	08/04/2021	20.65	mg/l
Hardness as CaCO3	4	88.00	08/04/2021	19.00	09/10/2021	37.25	mg/l
Nitrate as N, dissolved	3	UH	08/04/2021	UH	09/10/2021	UH	mg/l
Nitrate/Nitrite as N,	3	UH	08/04/2021	UH	09/10/2021	UH	mg/l
Nitrite as N, dissolved	3	UH	08/04/2021	UH	09/10/2021	UH	mg/l
Nitrogen, Ammonia	3	1.24	09/03/2021	0.82	08/04/2021	1.07	mg/l
Nitrogen, Organic	3	0.93	08/04/2021	0.20	09/10/2021	0.48	mg/l
Nitrogen, Total Kjeldahl	3	1.75	08/04/2021	1.38	09/10/2021	1.55	mg/l
pH, lab	4	9.70	09/03/2021	9.20	08/04/2021	9.40	units
Phosphate, total	3	6.30	08/04/2021	1.01	09/10/2021	3.34	mg/l
Phosphorus, total	3	2.02	08/04/2021	0.33	09/10/2021	1.08	mg/l
SAR in Water	4	36	09/10/2021	16.00	08/04/2021	30	none
Sulfate	4	U	08/04/2021	U	11/12/2021	U	mg/l
Sulfide	3	0.09	09/10/2021	0.07	09/03/2021	0.08	mg/l
Total Dissolved Solids	4	939	08/04/2021	896	09/10/2021	915	mg/l
Conductivity, Field	8	1,620	07/23/2021	1,430	07/23/2021	1,485	µmhos
				,			
pH, Field	8	9.38	11/12/2021	7.04	07/23/2021	8.31	units
Temperature (°C), Field	8	25.50	11/12/2021 07/23/2021	13.80	07/23/2021 11/12/2021	20.89	(°C)
			11/12/2021		07/23/2021		
Temperature (°C), Field Water Level, Field	8 3	25.50 450.60	11/12/2021 07/23/2021 09/10/2021	13.80 443.00	07/23/2021 11/12/2021 11/12/2021	20.89 447.77	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	8 3 <b>No. of</b>	25.50	11/12/2021 07/23/2021	13.80	07/23/2021 11/12/2021	20.89	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	8 3 No. of Samples	25.50 450.60 High	11/12/2021 07/23/2021 09/10/2021 Date	13.80 443.00 Low	07/23/2021 11/12/2021 11/12/2021 Date	20.89 447.77 <b>Average</b>	(°C) Ft. <b>Units</b>
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	8 3 No. of Samples 3	25.50 450.60 High	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021	13.80 443.00 Low	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021	20.89 447.77 <b>Average</b> U	(°C) Ft. <b>Units</b> mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	8 3 No. of Samples 3 3	25.50 450.60 High U 0.0114	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021	13.80 443.00 Low U 0.0011	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	8 3 <b>No. of</b> <u>Samples</u> 3 3 3	25.50 450.60 High U 0.0114 0.40	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 09/10/2021	13.80 443.00 Low U 0.0011 0.07	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 08/04/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	8 3 No. of Samples 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 09/10/2021 08/04/2021	13.80 443.00 Low U 0.0011 0.07 U	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 08/04/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	8 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4	25.50 450.60 High U 0.0114 0.40 U 0.82	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71	07/23/2021 11/12/2021 11/12/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	8 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71 U	07/23/2021 11/12/2021 11/12/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved	8 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 3 4 3 4	25.50 450.60 High U 0.0114 0.40 U 0.82	11/12/2021           07/23/2021           09/10/2021           Date           08/04/2021           09/10/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	8 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 3 4 3 4 3 4 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40	11/12/2021           07/23/2021           09/10/2021           Date           08/04/2021           09/10/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71 U 3.76	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/03/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	8 3 <b>No. of</b> <b>Samples</b> 3 3 3 3 3 4 4 3 4 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U U U	11/12/2021           07/23/2021           09/10/2021           Date           08/04/2021           09/10/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71 U 3.76 U U U	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	8 3 3 3 3 3 3 3 3 4 3 4 3 4 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71 U 3.76 U	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	8 3 3 3 3 3 3 3 3 3 4 3 4 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U U 17.60 U	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 <b>Low</b> U 0.0011 0.07 U 0.71 U 3.76 U U 0.45 U	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31 U U U 0.66 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	8 3 3 3 3 3 3 3 3 4 4 3 3 4 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U U 1.06	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 <b>Low</b> U 0.0011 0.07 U 0.71 U 3.76 U U U 0.45	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31 U U U 0.66	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	8 3 3 3 3 3 3 3 4 4 3 4 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U U 1.06 U 0.26	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 <b>Low</b> U 0.0011 0.07 U 0.71 U 3.76 U U 0.45 U 0.23	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31 U U U 0.66 U 0.24	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	8 3 3 3 3 3 3 3 3 4 4 3 3 4 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U U 17.40 U U 1.06 U 0.26 10.80	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71 U 0.71 U 3.76 U U 0.45 U 0.23 2.24	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 0.74 U U 0.74 U U 0.66 U 0.24 4.57	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	8 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U U 1.06 U 0.26 10.80 0.03	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 Low U 0.0011 0.07 U 0.71 U 0.71 U 3.76 U U 0.45 U 0.23 2.24 0.02	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 Average U 0.0047 0.24 U 0.74 U 0.74 U 7.31 U U 0.66 U 0.24 4.57 0.02 U 0.02	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	8 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 U 0.0011 0.07 U 0.71 U 0.71 U 3.76 U U 0.45 U 0.23 2.24 0.02 U	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 Average U 0.0047 0.24 U 0.74 U 0.74 U 0.74 U 0.66 U 0.24 4.57 0.02 U 0.02 U 0.02 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Barium, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	8 3 3 3 3 3 3 3 3 4 4 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U 0.02 U 0.02 U 8.03	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 U 0.0011 0.07 U 0.71 U 3.76 U 0.45 U 0.45 U 0.23 2.24 0.02 U 0.02 U 0.02 U 0.02 U 0.02	07/23/2021 11/12/2021 11/12/2021 09/10/2021	20.89 447.77 Average U 0.0047 0.24 U 0.74 U 0.74 U 0.66 U 0.24 4.57 0.02 U 0.02 U 0.02 U 0.02 U 7.42	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	8 3 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U 0.02 U	11/12/2021 07/23/2021 09/10/2021 <b>Date</b> 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021 08/04/2021	13.80 443.00 U 0.0011 0.07 U 0.71 U 3.76 U 0.45 U 0.45 U 0.23 2.24 0.02 U 0.02 U 0.02 U	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021 09/10/2021	20.89 447.77 Average U 0.0047 0.24 U 0.74 U 0.74 U 0.74 U 0.66 U 0.24 4.57 0.02 U 0.02 U 0.02 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	8 3 3 3 3 3 3 3 4 3 3 4 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U 0.02 U 0.02 U 8.03 0.01 15.80	11/12/2021           07/23/2021           09/10/2021           Date           08/04/2021           09/10/2021           08/04/2021           09/03/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/2021           08/04/20	13.80 443.00 U 0.0011 0.07 U 0.71 U 3.76 U 0.45 U 0.45 U 0.23 2.24 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 0.00 3.90	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 0.74 U 0.74 U 0.66 U 0.24 4.57 0.02 U 0.02 U 0.02 U 7.42 0.01 7.15	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	8 3 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U 0.02 U 0.02 U 8.03 0.01 15.80 356	11/12/2021           07/23/2021           09/10/2021           Date           08/04/2021           09/10/2021           08/04/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021	13.80 443.00 U 0.0011 0.07 U 0.71 U 3.76 U 0.45 U 0.45 U 0.23 2.24 0.02 U 0.03 0 0.23 0.23 0.23 0.24 0.02 0.02 0.23 0.24 0.02 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.24 0.23 0.24 0.02 0.23 0.24 0.02 0.24 0.02 0.23 0.24 0.02 0.24 0.02 0.23 0.24 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.23 0.02 0.02 0.02 0.02 0.02	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 0.74 U 0.74 U 0.66 U 0.24 4.57 0.02 U 0.02 U 0.02 U 0.02 U 7.42 0.01 7.15 354	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	8 3 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U 0.02 U 0.02 U 8.03 0.01 15.80 356 0.69	11/12/2021           07/23/2021           09/10/2021           09/10/2021           08/04/2021           08/04/2021           09/10/2021           08/04/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021	13.80 443.00 U 0.0011 0.07 U 0.71 U 3.76 U 0.45 U 0.45 U 0.45 U 0.23 2.24 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.02 U 0.05 0 0.02 U 0.05 0 0.05 0 0 0.05 0 0 0 0 0 0 0 0 0	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021 08/04/2021 08/04/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 7.31 U U 0.66 U U 0.24 4.57 0.02 U 0.02 U 0.02 U 0.02 U 7.42 0.01 7.15 354 0.63	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	8 3 3 3 3 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3	25.50 450.60 High U 0.0114 0.40 U 0.82 U 17.40 U 17.40 U 17.40 U 1.06 U 0.26 10.80 0.03 U 0.02 U 0.02 U 8.03 0.01 15.80 356	11/12/2021           07/23/2021           09/10/2021           Date           08/04/2021           09/10/2021           08/04/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021           09/03/2021	13.80 443.00 U 0.0011 0.07 U 0.71 U 3.76 U 0.45 U 0.45 U 0.23 2.24 0.02 U 0.03 0 0.23 0.23 0.23 0.24 0.02 0.02 0.23 0.24 0.02 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.23 0.24 0.02 0.24 0.23 0.24 0.02 0.23 0.24 0.02 0.24 0.02 0.23 0.24 0.02 0.24 0.02 0.23 0.24 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.02 0.23 0.24 0.02 0.02 0.23 0.02 0.02 0.02 0.02 0.02	07/23/2021 11/12/2021 11/12/2021 <b>Date</b> 09/10/2021	20.89 447.77 <b>Average</b> U 0.0047 0.24 U 0.74 U 0.74 U 0.74 U 0.66 U 0.24 4.57 0.02 U 0.02 U 0.02 U 0.02 U 7.42 0.01 7.15 354	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 34: BG-10 Quarterly B-Groove Aquifer

DAUB & ASSOCIATES, INC. 201 Star Contraction



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	nign	Dale	LOW	Dale	Average	Units
Bicarbonate as CaCO3	12	827	03/09/2021	683	03/05/2021	759	mg/l
Carbonate as CaCO3	12	172	11/02/2021	63	03/16/2021	117	mg/l
Total Alkalinity as CaCO3	12	953	03/09/2021	830	05/03/2021	876	mg/l
Bromide	4	<u> </u>	03/05/2021	U 030	05/03/2021	U U	mg/l
Cation-Anion Balance	12	4.80	08/02/2021	-7.70	07/12/2021	-1.81	%
Sum of Anions	12	23.00	10/05/2021	19.00	03/05/2021	20.75	meq/l
Sum of Cations	12	23.00	11/02/2021	17.00	03/05/2021	20.75	meg/l
Chemical Oxygen Demand	4	34.00	03/05/2021	10.00	03/09/2021	16.75	mg/l
Chloride	12	120	11/02/2021	43	03/16/2021	75	mg/l
Conductivity, Lab	12	2,080	10/05/2021	1,690	05/03/2021	1,861	
	12	24.70	05/03/2021	20.30	08/02/2021	21.94	µmhos
Fluoride Hardness as CaCO3	12	22.00	08/02/2021	14.00	03/16/2021	17.17	mg/l
Nitrate as N, dissolved	4	0.06	03/05/2021	UH	05/03/2021	UH	<u>mg/l</u> mg/l
	4	0.06	03/05/2021	UH	05/03/2021	UH	
Nitrate/Nitrite as N.	4	<u> </u>		UH		UH	mg/l
Nitrite as N, dissolved	4		03/05/2021		05/03/2021		mg/l
Nitrogen, Ammonia		0.99	03/16/2021	0.89	03/05/2021	0.95	mg/l
Nitrogen, Organic	4	0.28	03/05/2021	0.28	03/05/2021	0.28	mg/l
Nitrogen, Total Kjeldahl	4	1.17	03/05/2021	0.96	03/16/2021	1.06	mg/l
pH, lab	12	9.20	11/02/2021	8.50	10/05/2021	8.87	units
Phosphate, total	4	2.04	03/05/2021	0.15	03/16/2021	0.65	mg/l
Phosphorus, total	4	0.66	03/05/2021	0.05	03/16/2021	0.21	mg/l
SAR in Water	12	53	11/02/2021	39.00	03/05/2021	47	none
Sulfate	12	5	03/05/2021	5.38	03/05/2021	5	mg/l
Sulfide	4	0.02	05/03/2021	U	03/05/2021	U	mg/l
Total Dissolved Solids	12	1,260	11/02/2021	972	03/05/2021	1,103	mg/l
Conductivity, Field	11	2,007	11/02/2021	1,637	03/09/2021	1,794	µmhos
pH, Field	11	8.90	10/05/2021	8.15	07/12/2021	8.51	units
Temperature (°C), Field	11	17.40	07/12/2021	12.60	03/09/2021	14.45	(°C)
Water Level, Field	11	558.80	12/07/2021	539.40	03/16/2021	548.99	Ft.
				-	_	-	
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples						
Aluminum, dissolved	4	U	03/05/2021	U	05/03/2021	U	mg/l
Arsenic, dissolved	4	0.03	03/09/2021	0.00	05/03/2021	0.01	mg/l
Barium, dissolved	4	0.41	05/03/2021	0.19	03/05/2021	0.32	mg/l
Beryllium, dissolved	4	U	03/05/2021	U	05/03/2021	U	mg/l
Boron, dissolved	12	0.89	11/02/2021	0.74	03/05/2021	0.82	mg/l
Cadmium, dissolved	4	U	03/05/2021	U	05/03/2021	U	mg/l
Calcium, dissolved	12	4.78	12/07/2021	2.75	04/05/2021	3.36	mg/l
Chromium, dissolved	4	0.013	03/05/2021	U	05/03/2021	U	mg/l
							/1
Copper, dissolved	4	0.011	05/03/2021	U	03/05/2021	U	mg/l
Iron, dissolved	4 4	0.011 0.94		U 0.40	03/05/2021	•	
Iron, dissolved			05/03/2021 03/16/2021	-	05/03/2021	U 0.66 U	mg/l
Iron, dissolved Lead, dissolved	4	0.94 I	05/03/2021 03/16/2021 03/05/2021	0.40 U	05/03/2021 05/03/2021	0.66 U	mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved	4 4 4	0.94 I 0.16	05/03/2021 03/16/2021 03/05/2021 03/16/2021	0.40 U 0.15	05/03/2021 05/03/2021 03/05/2021	0.66 U 0.16	mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	4 4 4 12	0.94 I 0.16 2.97	05/03/2021 03/16/2021 03/05/2021 03/16/2021 08/02/2021	0.40 U 0.15 1.79	05/03/2021 05/03/2021 03/05/2021 03/16/2021	0.66 U 0.16 2.14	mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved	4 4 4 12 4	0.94 I 0.16	05/03/2021 03/16/2021 03/05/2021 03/16/2021 08/02/2021 03/05/2021	0.40 U 0.15	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021	0.66 U 0.16	mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	4 4 12 4 4	0.94 I 0.16 2.97 0.04 U	05/03/2021 03/16/2021 03/05/2021 03/16/2021 08/02/2021 03/05/2021 03/05/2021	0.40 U 0.15 1.79 0.02 U	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021	0.66 U 0.16 2.14 0.03 U	mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved	4 4 4 12 4	0.94 I 0.16 2.97 0.04	05/03/2021 03/16/2021 03/05/2021 03/16/2021 08/02/2021 03/05/2021 03/05/2021 03/09/2021	0.40 U 0.15 1.79 0.02	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 03/05/2021	0.66 U 0.16 2.14 0.03	mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved	4 4 12 4 4 4 4 4	0.94 I 0.16 2.97 0.04 U 0.13 U	05/03/2021 03/16/2021 03/05/2021 03/16/2021 08/02/2021 03/05/2021 03/05/2021 03/09/2021	0.40 U 0.15 1.79 0.02 U 0.06 U	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 03/05/2021 05/03/2021	0.66 U 0.16 2.14 0.03 U 0.09 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	4 4 12 4 4 4 4 4 12	0.94 I 0.16 2.97 0.04 U 0.13 U 2.90	05/03/2021 03/16/2021 03/05/2021 03/16/2021 08/02/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 08/02/2021	0.40 U 0.15 1.79 0.02 U 0.06 U 0.90	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 03/05/2021 04/05/2021	0.66 U 0.16 2.14 0.03 U 0.09 U 1.24	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved	4 4 12 4 4 4 4 12 4 12 4	0.94 I 0.16 2.97 0.04 U 0.13 U 2.90 0.0017	05/03/2021 03/16/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/09/2021 03/05/2021 03/09/2021	0.40 U 0.15 1.79 0.02 U 0.06 U 0.90 0.0003	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 03/05/2021 04/05/2021 03/05/2021	0.66 U 0.16 2.14 0.03 U 0.09 U 1.24 0.001	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved	4 4 12 4 4 4 4 12 4 12 4 12	0.94 I 0.16 2.97 0.04 U 0.13 U 2.90 0.0017 16.60	05/03/2021 03/16/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/09/2021 03/05/2021 03/09/2021 11/02/2021	0.40 U 0.15 1.79 0.02 U 0.06 U 0.90 0.0003 10.30	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 05/03/2021 04/05/2021 03/05/2021 03/05/2021	0.66 U 0.16 2.14 0.03 U 0.09 U 1.24 0.001 14.92	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	4 4 12 4 4 4 4 12 4 12 4 12 12	0.94 I 0.16 2.97 0.04 U 0.13 U 2.90 0.0017 16.60 524	05/03/2021 03/16/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/09/2021 03/09/2021 03/09/2021 11/02/2021	0.40 U 0.15 1.79 0.02 U 0.06 U 0.90 0.0003 10.30 372	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 05/03/2021 05/03/2021 04/05/2021 03/05/2021 03/05/2021	0.66 U 0.16 2.14 0.03 U 0.09 U 1.24 0.001 14.92 446	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	4 4 12 4 4 4 4 12 4 12 4 12 12 12	0.94 I 0.16 2.97 0.04 U 0.13 U 2.90 0.0017 16.60 524 1.01	05/03/2021 03/16/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/09/2021 03/09/2021 03/09/2021 11/02/2021 11/02/2021 12/07/2021	0.40 U 0.15 1.79 0.02 U 0.06 U 0.90 0.0003 10.30 372 0.63	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 05/03/2021 04/05/2021 03/05/2021 03/05/2021 03/05/2021	0.66 U 0.16 2.14 0.03 U 0.09 U 1.24 0.001 14.92 446 0.83	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	4 4 12 4 4 4 4 12 4 12 4 12 12	0.94 I 0.16 2.97 0.04 U 0.13 U 2.90 0.0017 16.60 524	05/03/2021 03/16/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/05/2021 03/09/2021 03/09/2021 03/09/2021 11/02/2021	0.40 U 0.15 1.79 0.02 U 0.06 U 0.90 0.0003 10.30 372	05/03/2021 05/03/2021 03/05/2021 03/16/2021 03/16/2021 05/03/2021 05/03/2021 05/03/2021 04/05/2021 03/05/2021 03/05/2021	0.66 U 0.16 2.14 0.03 U 0.09 U 1.24 0.001 14.92 446	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 35: BG-11 Monthly B-Groove Aquifer

DAUB & ASSOCIATES, INC. 



Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	riigii	Date	LOW	Date	Average	Units
Bicarbonate as CaCO3	64	806.00	12/16/1992	356.00	02/26/1991	634.79	mg/l
Carbonate as CaCO3	64	754.00	09/27/1990	10.00	06/16/1992	102.18	mg/l
Total Alkalinity as CaCO3	64	1,064.00	09/27/1990	375.00	09/07/1990	714.30	mg/l
Bromide	34	2.60	09/07/1990	0.06	05/26/2000	0.74	mg/l
Cation-Anion Balance	62	11.10	05/29/2002	-9.40	07/29/2009	0.36	%
Sum of Anions	56	24.21	09/27/1990	12.00	05/26/2004	16.38	meq/l
Sum of Cations	56	23.84	09/27/1990	13.00	05/26/2004	16.44	meg/l
Chemical Oxygen Demand	26	550.00	07/29/2009	11.00	08/24/2017	150.52	mg/l
Chloride	63	524.00	09/07/1990	11.00	06/30/1995	41.48	mg/l
Conductivity, Lab	62	1,660.00	09/08/1993	1,050.0	03/22/1993	1,436.6	μmhos
Fluoride	64	32.00	09/28/1994	2.80	05/28/1991	21.64	 mg/l
Hardness as CaCO3	62	59.00	09/27/1990	3.00	06/30/2009	10.87	mg/l
Nitrate as N, dissolved	33	1.99	06/14/2008	0.02	06/30/1995	0.23	mg/l
Nitrate/Nitrite as N,	33	2.13	06/14/2008	0.02	09/28/1994	0.24	mg/l
Nitrite as N, dissolved	33	0.14	06/14/2008	0.01	10/03/2012	0.08	mg/l
Nitrogen, Ammonia	33	5.70	05/09/2001	0.58	05/21/2007	1.13	mg/l
Nitrogen, Organic	33	34.70	07/29/2009	0.37	03/08/2021	8.54	mg/l
Nitrogen, Total Kjeldahl	33	35.50	07/29/2009	1.13	03/08/2021	9.65	mg/l
pH, lab	62	11.60	12/20/1993	8.40	12/30/1996	8.87	units
Phosphate, total	33	0.90	09/07/1990	0.03	05/26/2000	0.14	mg/l
Phosphorus, total	33	0.30	09/07/1990	0.01	06/18/1996	0.05	mg/l
SAR in Water	52	92.00	11/27/2002	29.17	09/27/1990	52.77	none
Sulfate	64	140.00	06/14/2008	2.00	05/28/1991	17.55	mg/l
Sulfide	33	0.80	09/07/1990	0.01	05/26/2004	0.13	mg/l
Total Dissolved Solids	63	1,428.00	09/27/1990	690.00	05/29/2003	914.78	mg/l
	88	3,803.00	09/01/2009	982.00	11/21/2005	1,537.8	µmhos
Conductivity, Field							
pH, Field	87	12.00	09/27/1990	7.60	09/16/2019	9.28	units
pH, Field Temperature (°C), Field	87 45	12.00 16.20	09/27/1990 06/14/2008	7.60 8.00	09/16/2019 12/01/1990	9.28 12.21	units (°C)
pH, Field	87	12.00	09/27/1990	7.60	09/16/2019	9.28	units
pH, Field Temperature (°C), Field Water Level, Field	87 45 62	12.00 16.20 435.60	09/27/1990 06/14/2008 08/24/2017	7.60 8.00 398.45	09/16/2019 12/01/1990 11/01/1990	9.28 12.21 412.25	units (°C) Ft.
pH, Field Temperature (°C), Field Water Level, Field Parameters	87 45 62 <b>No. of</b>	12.00 16.20	09/27/1990 06/14/2008	7.60 8.00	09/16/2019 12/01/1990	9.28 12.21	units (°C)
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals	87 45 62 No. of Samples	12.00 16.20 435.60 High	09/27/1990 06/14/2008 08/24/2017 Date	7.60 8.00 398.45 Low	09/16/2019 12/01/1990 11/01/1990 Date	9.28 12.21 412.25 Average	units (°C) Ft. Units
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	87 45 62 No. of Samples 32	12.00 16.20 435.60 High 3.79	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990	7.60 8.00 398.45 Low	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004	9.28 12.21 412.25 <b>Average</b> 0.65	units (°C) Ft. Units mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32	12.00 16.20 435.60 High 3.79 0.03	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990	7.60 8.00 398.45 Low U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004	9.28 12.21 412.25 <b>Average</b> 0.65 0.01	units (°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021	7.60 8.00 398.45 Low U U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23	units (°C) Ft. Units mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990	7.60 8.00 398.45 <b>Low</b> U U U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U	units (°C) Ft. Units mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32 32 32 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991	7.60 8.00 398.45 Low U U U U 0.19	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57	units (°C) Ft. Units mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32 32 32 64 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991 09/07/1990	7.60 8.00 398.45 <b>Low</b> U U U U U U U U U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32 32 64 32 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991 09/07/1990 09/27/1990	7.60 8.00 398.45 Low U U U U 0.19 U 0.00	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32 32 64 32 64 32 64 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991 09/07/1990 09/27/1990 03/08/2021	7.60 8.00 398.45 Low U U U U U U U 0.19 U 0.00 U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 32 64 32 64 32 64 32 64 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991 09/07/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013	7.60 8.00 398.45 <b>Low</b> U U U U U U 0.19 U 0.00 U U U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U U U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 64 32 64 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 0.24	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991 09/07/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014	7.60 8.00 398.45 Low U U U U U U U 0.19 U 0.00 U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1999	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 2.28 U U 0.05	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 64 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 01/31/1991 09/07/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.01 U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1999 06/23/1994	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 2.28 U U 0.05 0.15	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Baryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lithium, dissolved Lead, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 64 32 64 32 32 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.01	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1999 06/23/1994 09/15/1992	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 2.28 U U 0.05 0.15 0.08	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Baryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lion, dissolved Lead, dissolved Lithium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 64 32 32 32 32 32 32 32 32 32 32 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/07/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 09/27/1990	7.60 8.00 398.45 Low U U U U 0.19 U 0.00 U U 0.00 U U 0.01 U 0.06 U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1999 06/23/1994 09/15/1992 02/26/1991	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.57 U U 0.57 0.15 0.08 1.21	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Baryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lithium, dissolved Lead, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 64 32 64 32 32 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990	7.60 8.00 398.45 Low U U U U 0.19 U 0.00 U U 0.00 U U 0.01 U 0.06	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1999 06/23/1994 09/15/1992	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 2.28 U U 0.05 0.15 0.08	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 32 32 32 32 32 32 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 09/27/1990 03/27/2018	7.60 8.00 398.45 Low U U U U 0.19 U 0.19 U 0.00 U U 0.00 U U 0.01 U U 0.06 U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 05/26/1999 06/23/1994 09/15/1992 02/26/1991 07/31/1991	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U U U	units (°C) Ft. Units Mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 64 32 32 32 32 32 32 32 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 09/27/1990 03/27/2018 09/07/1990	7.60 8.00 398.45 Low U U U U 0.19 U 0.19 U 0.00 U U 0.01 U 0.01 U 0.06 U U U U U 0.06 U U U U U U U 0.00 U U U 0.00 U U U 0.00 U U U 0.00 U U 0.00 U U 0.00 U U U U U U	09/16/2019 12/01/1990 11/01/1990 <b>Date</b> 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 05/26/1999 06/23/1994 09/15/1992 02/26/1991 07/31/1991 09/15/1992	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U	units (°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 32 32 32 32 32 32 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U U U	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 03/27/2018 09/07/1990 03/27/2018	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.01 U 0.06 U U U U U U U 0.06 U U U U U U U U U U U U U	09/16/2019 12/01/1990 11/01/1990 05/26/2004 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 05/26/1991 05/26/1999 06/23/1994 09/15/1992 02/26/1991 07/31/1991 09/15/1992 09/15/1992 09/15/1992 09/15/1992	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U U U	units (°C) Ft. Units Mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 32 32 32 32 32 32 32 32 32 32 32 32	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U U 0.02	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 03/08/2021 09/07/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 03/27/2018 09/07/1990 03/22/2016 06/23/1994 09/07/1990	7.60 8.00 398.45 Low U U U U U 0.19 U 0.19 U 0.00 U U 0.00 U U 0.00 U U U 0.00 U U U U U U U U U U U U U	09/16/2019 12/01/1990 11/01/1990 05/26/2004 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 05/26/1991 05/26/1991 05/26/1991 05/26/1991 05/26/1991 02/26/1991 07/31/1991 09/15/1992 09/15/1992	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U U 0.05 0.15 0.08 1.21 0.01 U U U U U U U U U U U U U U U U U U U	units (°C) Ft. Units Mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 32 32 32 32 64 32 32 32 32 32 32 32 32 64 32 32 64 32 32 64 32 32 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U U U 0.02 U U 0.02 13.00	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 03/27/2018 09/07/1990 03/22/2016 06/23/1994 09/07/1990 09/27/1990	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.00 U U 0.06 U U U 0.06 U U U 0.06 U U 0.06 0 0 0 0 0 0 0 0 0 0 0 0 0	09/16/2019 12/01/1990 11/01/1990 05/26/2004 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1999 06/23/1994 09/15/1992 02/26/1991 07/31/1991 09/15/1992 09/15/1992 09/15/1992 03/08/2021 07/31/1991 12/20/1993	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U U U U U U U 1.76 U 17.41	units (°C) Ft. Units Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved Solium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 64 32 32 64 64 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U U 0.02 U U 0.02 13.00 0.002 63.00 508.00	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 03/27/2018 09/07/1990 03/22/2016 06/23/1994 09/07/1990 09/27/1990 09/27/1990	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.01 U 0.06 U U U U 0.06 U U 0.06 0 0 0 0 0 0 0 0 0 0 0 0 0	09/16/2019 12/01/1990 11/01/1990 11/01/1990 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1991 09/15/1992 02/26/1991 07/31/1991 09/15/1992 09/15/1992 09/15/1992 09/15/1992 09/15/1992 09/15/1992 03/08/2021 07/31/1991 12/20/1993 12/20/1993	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U U U U U U 1.76 U 17.41 367.94	units (°C) Ft. Units Units Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 32 32 32 32 64 32 32 32 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 64 64 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U U 0.02 U U 0.02 13.00 0.002 63.00 508.00 0.78	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 03/27/2018 09/07/1990 03/22/2016 06/23/1994 09/07/1990 09/27/1990 09/27/1990 09/27/1990 09/27/1990	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.00 U U 0.06 U U U 0.06 U U U 0.06 U U 0.06 0 0 0 0 0 0 0 0 0 0 0 0 0	09/16/2019 12/01/1990 11/01/1990 11/01/1990 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1991 09/15/1992 02/26/1991 07/31/1991 09/15/1992 09/15/1992 09/15/1992 09/15/1992 09/15/1992 09/15/1992 03/08/2021 07/31/1991 12/20/1993 12/20/1993	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U U U U U U U 1.76 U 17.41	units (°C) Ft. Units Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m
pH, Field Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved Solium, dissolved	87 45 62 <b>No. of</b> <b>Samples</b> 32 32 32 64 32 64 32 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 32 32 64 64 32 32 64 64 64	12.00 16.20 435.60 High 3.79 0.03 0.44 U 0.72 U 12.00 0.01 U 12.00 0.01 U 0.24 0.32 0.13 7.00 0.02 U U 0.02 U U 0.02 13.00 0.002 63.00 508.00	09/27/1990 06/14/2008 08/24/2017 <b>Date</b> 09/27/1990 09/27/1990 03/08/2021 09/07/1990 09/27/1990 09/27/1990 09/27/1990 03/08/2021 10/22/2013 11/06/2014 03/22/2016 09/07/1990 03/27/2018 09/07/1990 03/22/2016 06/23/1994 09/07/1990 09/27/1990 09/27/1990	7.60 8.00 398.45 Low U U U U U 0.19 U 0.00 U U 0.00 U U 0.01 U 0.06 U U U U 0.06 U U 0.06 0 0 0 0 0 0 0 0 0 0 0 0 0	09/16/2019 12/01/1990 11/01/1990 11/01/1990 05/26/2004 05/26/2004 09/07/1990 07/31/1991 12/20/1993 09/15/1992 02/26/1991 09/07/1990 10/22/2013 05/26/1991 09/15/1992 02/26/1991 07/31/1991 09/15/1992 09/15/1992 09/15/1992 09/15/1992 09/15/1992 09/15/1992 03/08/2021 07/31/1991 12/20/1993 12/20/1993	9.28 12.21 412.25 <b>Average</b> 0.65 0.01 0.23 U 0.57 U 2.28 U U 0.57 U 2.28 U U 0.05 0.15 0.08 1.21 0.01 U U U U U U 1.76 U 17.41 367.94	units (°C) Ft. Units Units Units Mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I m

#### Table 36: IRI-6 Annual B-Groove Aquifer

DAUB & ASSOCIATES, INC. 201 3 Frank Contraction



<b>_</b>		· · · ·	<b></b>		<b>.</b>		
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples		00/01/0000	0.070.00	11/10/0000	44,000,04	//
Bicarbonate as CaCO3	170	66,300.00	08/21/2003	3,970.00	11/18/2006	41,898.64	mg/l
Carbonate as CaCO3	170	33,400.00	08/05/1999	130.00	11/18/2006	3,886.81	mg/l
Total Alkalinity as CaCO3	170	68,800.00	08/21/2003	4,100.00	11/18/2006	45,510.65	mg/l
Bromide	21	3.00	05/18/2006	2.70	11/05/2019	2.85	mg/l
Cation-Anion Balance	169	80.00	11/18/2006	-67.20	09/15/2007	-1.99	%
Sum of Anions	169	1,430.00	05/13/2020	105.00	11/18/2006	980.39	meq/l
Sum of Cations	169	1,320.00	01/15/2019	193.00	09/15/2007	945.90	meq/l
Chemical Oxygen Demand	20	1,100.00	07/29/2009	100.00	09/14/2000	283.35	mg/l
Chloride	169	19,400.00	04/05/2021	105.00	04/11/2006	2,453.58	mg/l
Conductivity, Lab	170	75,100.00	05/13/2020	5,220.00	02/08/2000	51,875.33	μmhos
Fluoride	169	123.00	03/25/1998	8.60	04/11/2006	50.02	mg/l
Hardness as CaCO3	169	150.00	11/16/2007	1.00	03/25/1998	36.14	mg/l
Nitrate as N, dissolved	21	0.96	09/25/2002	0.00	09/24/2003	0.10	mg/l
Nitrate/Nitrite as N,	21	1.65	09/25/2002	0.00	09/24/2003	0.16	mg/l
Nitrite as N, dissolved	21	0.87	09/25/2002	0.00	09/24/2003	0.10	mg/l
	20					12.56	
Nitrogen, Ammonia		20.30	05/13/2020	3.75	09/14/2000		mg/l
Nitrogen, Organic	20	17.00	05/03/2021	1.90	09/24/2003	7.73	mg/l
Nitrogen, Total Kjeldahl	20	31.90	05/03/2021	1.70	09/14/2000	16.21	mg/l
pH, lab	170	9.10	10/14/2008	8.20	06/09/1999	8.50	units
Phosphate, total	20	77.50	05/18/2006	1.55	10/14/2008	35.71	mg/l
Phosphorus, total	20	18.80	09/15/2007	3.00	10/14/2008	11.16	mg/l
SAR in Water	135	7,600.00	03/25/1998	801.00	11/16/2007	2,285.15	none
Sulfate	169	1,040.00	12/16/2002	10.00	09/27/2005	126.60	mg/l
Sulfide	20	18.60	11/05/2019	0.05	08/25/2005	2.88	mg/l
Total Dissolved Solids	169	71,400.00	05/13/2020	20,800.00	12/08/2000	52,023.81	mg/l
Conductivity, Field	173	82,870.00	12/09/2019	26,900.00	12/01/2008	54,643.29	µmhos
pH, Field	172	12.60	01/11/2021	7.00	03/04/2015	8.50	units
Temperature (°C), Field	127	23.77	06/15/2011	6.30	03/04/2013	12.99	(°C)
Water Level, Field	189	604.20	09/20/2021	471.20	09/03/2020	550.99	Ft.
	103	004.20	03/20/2021	471.20	03/03/2020	550.55	11.
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples	ingn	Buto	2011	Buto	Avolugo	onito
Aluminum, dissolved	21	1.60	09/23/2010	0.58	03/14/2008	1.09	mg/l
Arsenic, dissolved	21	1.00 U	09/30/1997	U	09/22/1999	U 1.05	mg/l
	21	3.85		0.06		1.78	
Barium, dissolved			03/14/2008		10/14/2008		mg/l
Beryllium, dissolved	21	U	09/30/1997	U	09/22/1999	U	mg/l
Boron, dissolved	168	43.40	01/28/2003	6.60	09/15/2007	31.64	mg/l
Cadmium, dissolved	21	U	09/30/1997	U	09/22/1999	U	mg/l
Calcium, dissolved	168	60.00	11/16/2007	0.40	08/12/2004	13.09	mg/l
Chromium, dissolved	21	0.40	09/23/2010	0.40	09/23/2010	U	mg/l
Copper, dissolved	21	0.60	09/14/2004	0.30	09/02/1998	U	mg/l
Iron, dissolved	21	1.20	09/02/1998	0.24	10/14/2008	U	mg/l
Lead, dissolved	21	0.28	03/14/2008	U	09/02/1998	U	mg/l
Lithium, dissolved	21	12.70	03/14/2008	1.00	09/15/2007	4.62	mg/l
Magnesium, dissolved	168	10.00	09/08/2015	0.30	03/14/2008	5.56	mg/l
Manganese, dissolved	21	0.01	10/14/2008	U	09/22/1999	U	mg/l
Mercury, dissolved	21		09/30/1997	<u> </u>	09/22/1999	U U	mg/l
Molybdenum, dissolved	21	0.50	09/23/2010	0.29	03/14/2008	U	
				U.29		U	mg/l
Nickel, dissolved	21	0.23	03/14/2008	-	09/22/1999		mg/l
Potassium, dissolved	168	340.00	10/10/2018	11.40	10/14/2008	51.77	mg/l
Selenium, dissolved	21	0.002	09/30/1997	U	09/22/1999	U	mg/l
Silica, dissolved	168	50.00	06/02/1998	3.60	04/11/2006	26.59	mg/l
Sodium, dissolved	168	29,800.00	04/19/2001	4,370.00	09/15/2007	21,507.56	mg/l
Strontium, dissolved	168	0.60	08/04/1997	0.07	10/14/2008	0.27	mg/l
Vanadium, dissolved	21	0.20	09/23/2010	U	09/22/1999	U	mg/l
Zinc, dissolved	21	3.00	11/16/2007	0.03	03/14/2008	U	mg/l

#### Table 37: DS-2 Monthly Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC.



<b>_</b>					<b>.</b> .		
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples		05/04/0005	17 400		07 400	
Bicarbonate as CaCO3	216	43,000	05/24/2005	17,400	11/27/2002	27,139	mg/l
Carbonate as CaCO3	216	23,900	05/03/2008	419	06/26/2002	3,913	mg/l
Total Alkalinity as CaCO3	216	60,100	03/14/2008	21,900	06/11/2014	30,879	mg/l
Bromide	31	5.00	05/03/2008	0.70	08/02/2006	2.18	mg/l
Cation-Anion Balance	216	13.50	10/28/2002	-93.80	04/10/2013	-4.67	%
Sum of Anions	216	1,440.00	04/07/2020	511.00	04/29/2003	780.50	meq/l
Sum of Cations	216	1,730.00	03/14/2008	20.70	04/10/2013	726.45	meq/l
Chemical Oxygen Demand	31	1,100.00	07/30/2009	140.00	08/21/2003	412.25	mg/l
Chloride	216	17,200.0	12/19/2018	39.00	05/24/2005	5,697.59	mg/l
Conductivity, Lab	216	81,800	02/13/2019	27,200	09/28/2006	47,322	µmhos
Fluoride	216	329.00	11/07/2018	2.80	05/24/2005	61.35	mg/l
Hardness as CaCO3	216	49.00	03/08/2011	1.00	01/28/2003	15.08	mg/l
Nitrate as N, dissolved	31	0.10	08/12/2004	0.02	09/28/2006	0.05	mg/l
Nitrate/Nitrite as N,	31	0.14	11/10/2014	0.02	09/28/2006	0.05	mg/l
Nitrite as N, dissolved	31	0.05	11/10/2014	0.01	07/11/2013	0.03	mg/l
Nitrogen, Ammonia	31	34.20	12/19/2018	6.11	07/10/2017	13.30	mg/l
Nitrogen, Organic	31	28.00	08/22/2002	0.80	09/30/2008	8.45	mg/l
Nitrogen, Total Kjeldahl	31	50.00	12/19/2018	3.50	09/23/2010	19.56	mg/l
pH, lab	216	9.20	04/10/2008	7.90	10/28/2002	8.61	units
Phosphate, total	31	155.00	07/30/2009	3.10	08/16/2011	32.73	mg/l
Phosphorus, total	31	183.00	09/30/2008	3.20	06/26/2007	14.27	mg/l
SAR in Water	151	8,450	05/18/2006	0.00	12/09/2014	2,481	none
Sulfate	216	1,860	09/23/2010	0.00	09/02/2015	206	mg/l
Sulfide	31	18.10	06/10/2020	0.04	08/25/2005	3.42	mg/l
Total Dissolved Solids	216	88,500	03/14/2008	18,500	05/29/2003	41,500	mg/l
Conductivity, Field	238	86,810	02/13/2019	30,600	04/29/2003	50,351	µmhos
pH, Field	237	9.91	06/30/2009	7.00	03/09/2016	8.43	units
Temperature (°C), Field	237	24.40	07/05/2016	5.30	02/09/2012	12.84	(°C)
Water Level, Field	238	547.30	08/02/2021	484.10	02/04/2016	521.75	Ft.
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples						
Aluminum, dissolved	32	79.90	08/12/2004	0.40	03/14/2008	17.00	mg/l
Arsenic, dissolved	32	0.02	06/10/2020	0.01	12/04/2012	0.02	mg/l
Barium, dissolved	32	3.32	08/25/2005	0.19	08/19/2007	1.82	mg/l
Beryllium, dissolved	32	U	08/22/2002	U	08/12/2004	U	mg/l
Boron, dissolved	217	74.70	02/13/2019	3.69	05/29/2003	19.21	mg/l
Cadmium, dissolved	32	U	08/22/2002	U	08/12/2004	U	mg/l
Calcium, dissolved	217	14.00	07/10/2017	0.30	05/29/2003	4.07	mg/l
Chromium, dissolved	32	0.01	05/18/2006	U	08/22/2003	U	mg/l
Copper, dissolved	32	1.20	08/16/2011	0.50	08/12/2004	0.85	mg/l
Iron, dissolved	32	3.70	09/15/2007	0.07	05/18/2006	1.49	mg/l
Lead, dissolved	32	1.40	08/22/2002	0.22	03/14/2008	0.81	mg/l
Lithium, dissolved	32	8.48	03/14/2008	2.70	12/19/2018	3.36	mg/l
Lithium, dissolved Magnesium, dissolved	<u>32</u> 217					3.36 U	mg/l mg/l
		8.48	03/14/2008	2.70	12/19/2018		
Magnesium, dissolved	217	<u>8.48</u> 10.00	03/14/2008 01/08/2008	2.70 0.00	12/19/2018 09/02/2015	U	mg/l
Magnesium, dissolved Manganese, dissolved	217 32	8.48 10.00 U	03/14/2008 01/08/2008 08/22/2002	2.70 0.00 U	12/19/2018 09/02/2015 08/12/2004	UU	mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved	217 32 32 32	8.48 10.00 U U 0.70	03/14/2008 01/08/2008 08/22/2002 08/22/2002 08/19/2007	2.70 0.00 U U 0.30	12/19/2018 09/02/2015 08/12/2004 08/12/2004	U U U 0.45	mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved	217 32 32 32 32 32	8.48 10.00 U U 0.70 0.20	03/14/2008 01/08/2008 08/22/2002 08/22/2002 08/19/2007 09/23/2010	2.70 0.00 U 0.30 0.02	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006	U U 0.45 0.13	mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	217 32 32 32 32 32 217	8.48 10.00 U 0.70 0.20 150.00	03/14/2008 01/08/2008 08/22/2002 08/22/2002 08/19/2007 09/23/2010 02/13/2019	2.70 0.00 U 0.30 0.02 0.00	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006 11/21/2008	U U 0.45 0.13 36.56	mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved	217 32 32 32 32 217 32	8.48 10.00 U 0.70 0.20 150.00 0.008	03/14/2008 01/08/2008 08/22/2002 08/19/2007 09/23/2010 02/13/2019 08/22/2002	2.70 0.00 U 0.30 0.02 0.00 0.00	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006 11/21/2008 07/12/2007	U U 0.45 0.13 36.56 0.005	mg/l mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Silica, dissolved	217 32 32 32 217 32 217 32 217	8.48 10.00 U 0.70 0.20 150.00 0.008 79.00	03/14/2008 01/08/2008 08/22/2002 08/19/2007 09/23/2010 02/13/2019 08/22/2002 04/11/2006	2.70 0.00 U 0.30 0.02 0.00 0.00 8.90	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006 11/21/2008 07/12/2007 05/29/2003	U U 0.45 0.13 36.56 0.005 25.86	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	217 32 32 32 217 32 217 217 217	8.48 10.00 U 0.70 0.20 150.00 0.008 79.00 39,200	03/14/2008 01/08/2008 08/22/2002 08/19/2007 09/23/2010 02/13/2019 08/22/2002 04/11/2006 03/14/2008	2.70 0.00 U 0.30 0.02 0.00 0.00 8.90 450	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006 11/21/2008 07/12/2007 05/29/2003 04/10/2013	U U 0.45 0.13 36.56 0.005 25.86 16,59	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Sodium, dissolved Strontium, dissolved	217 32 32 32 217 32 217 217 217 217	8.48 10.00 U 0.70 0.20 150.00 0.008 79.00 39,200 0.70	03/14/2008 01/08/2008 08/22/2002 08/19/2007 09/23/2010 02/13/2019 08/22/2002 04/11/2006 03/14/2008 02/21/2005	2.70 0.00 U 0.30 0.02 0.00 0.00 8.90 450 0.04	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006 11/21/2008 07/12/2007 05/29/2003 04/10/2013 05/29/2003	U U 0.45 0.13 36.56 0.005 25.86 16,59 0.22	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved Selenium, dissolved Silica, dissolved Sodium, dissolved	217 32 32 32 217 32 217 217 217	8.48 10.00 U 0.70 0.20 150.00 0.008 79.00 39,200	03/14/2008 01/08/2008 08/22/2002 08/19/2007 09/23/2010 02/13/2019 08/22/2002 04/11/2006 03/14/2008	2.70 0.00 U 0.30 0.02 0.00 0.00 8.90 450	12/19/2018 09/02/2015 08/12/2004 08/12/2004 08/18/2010 05/18/2006 11/21/2008 07/12/2007 05/29/2003 04/10/2013	U U 0.45 0.13 36.56 0.005 25.86 16,59	mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 38: DS-3 Monthly Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC.



Parameters	No. of	High	Date	Low	Date	Avorado	Units
Wet Chemistry		підп	Dale	LOW	Date	Average	Units
	Samples	9,560	07/06/2020	5,770	12/07/2017	7,132	ma/l
Bicarbonate as CaCO3	77 77	<u>9,560</u> 5,060	03/07/2018	2,110	07/06/2020	3,707	mg/l
Carbonate as CaCO3	77	12,400	03/05/2020		08/09/2016		mg/l
Total Alkalinity as CaCO3 Bromide	10	<u>12,400</u>		9,650 U		<u>10,837</u>	mg/l
Cation-Anion Balance	76	2.60	12/09/2014 02/11/2020	-13.30	07/11/2017 07/06/2020	-4.19	mg/l %
	76					240.07	
Sum of Anions	76	272.00	03/05/2020	219.00	11/03/2020 12/01/2020	220.84	meq/l
Sum of Cations Chemical Oxygen Demand	10	<u>255.00</u> 167.00	12/09/2014	<u>188.00</u> 44.00	04/05/2016	80.50	<u>meq/l</u> mg/l
	76						
<u>Chloride</u>		1,330	12/09/2014	448 14.900	11/03/2020	703	mg/l
Conductivity, Lab	77	19,800	12/09/2014		12/01/2020	16,964	µmhos
Fluoride	76	51.00	04/07/2020	26.80	09/08/2015	37.01	mg/l
Hardness as CaCO3	76	30.00	09/22/2016	<u>     U</u>	01/03/2017	6.68	mg/l
Nitrate as N, dissolved	10	<u> </u>	09/27/2016	UH	04/05/2016	UH	mg/l
Nitrate/Nitrite as N,	10	0.02	12/09/2014	UH	04/05/2016	UH	mg/l
Nitrite as N, dissolved	10	0.03	12/09/2014	UH	04/05/2016	UH	mg/l
Nitrogen, Ammonia	10	4.39	05/13/2020	3.30	12/09/2014	3.82	mg/l
Nitrogen, Organic	10	5.60	05/07/2019	0.80	07/11/2017	3.04	mg/l
Nitrogen, Total Kjeldahl	10	9.30	05/07/2019	4.70	07/11/2017	6.80	mg/l
<u>pH, lab</u>	77	9.50	03/01/2017	9.00	08/10/2020	9.26	units
Phosphate, total	10	7.00	09/27/2016	0.71	12/09/2014	4.81	mg/l
Phosphorus, total	10	2.20	09/27/2016	0.23	12/09/2014	1.55	mg/l
SAR in Water	53	1,600	02/11/2020	410.00	09/22/2016	1,044	none
Sulfate	76	370	12/09/2014	20.60	09/04/2020	86	mg/l
Sulfide	10	3.00	07/11/2017	0.30	04/05/2016	1.61	mg/l
Total Dissolved Solids	76	14,100	12/09/2014	11,200	12/01/2020	12,479	mg/l
Conductivity, Field	72	19,680	05/07/2019	13,820	05/01/2020	16,858	µmhos
			/ /				
pH, Field	72	9.70	08/09/2016	7.30	12/10/2018	8.96	units
Temperature (°C), Field	72	16.70	09/06/2017	7.30 8.00	01/14/2020	12.06	(°C)
				7.30			
Temperature (°C), Field Water Level, Field	72 72	16.70 550.40	09/06/2017 09/08/2021	7.30 8.00 489.40	01/14/2020 10/06/2020	12.06 521.93	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	72 72 No. of	16.70	09/06/2017	7.30 8.00	01/14/2020	12.06	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	72 72 No. of Samples	16.70 550.40 <b>High</b>	09/06/2017 09/08/2021 Date	7.30 8.00 489.40	01/14/2020 10/06/2020 Date	12.06 521.93 Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	72 72 No. of Samples 10	16.70 550.40 High	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014	7.30 8.00 489.40 Low	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017	12.06 521.93 <b>Average</b> U	(°C) Ft. <b>Units</b> mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10	16.70 550.40 High U 0.012	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017	12.06 521.93 Average U U	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10	16.70 550.40 High U 0.012 0.46	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016	7.30 8.00 489.40 Low U U 0.05	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016	12.06 521.93 Average U U 0.28	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10	16.70 550.40 High U 0.012 0.46 U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017	12.06 521.93 Average U U 0.28 U	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 10 75	16.70 550.40 High U 0.012 0.46 U 8.54	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021	7.30 8.00 489.40 Low U U 0.05 U 6.20	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 10/04/2017	12.06 521.93 Average U U 0.28 U 7.58	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 10 75 10	16.70 550.40 High U 0.012 0.46 U 8.54 U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 6.20 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021	7.30 8.00 489.40 Low U U 0.05 U 6.20 U 1.00	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 10/04/2017 07/11/2017 03/25/2015	12.06 521.93 <b>Average</b> U 0.28 U 7.58 U 1.98	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 75 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 8.54 U 7.34 U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014	7.30 8.00 489.40 <b>Low</b> U U 0.05 U 6.20 U 6.20 U 1.00 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 10/04/2017 07/11/2017 03/25/2015 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 75 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U U U U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014	7.30 8.00 489.40 <b>Low</b> U U 0.05 U 6.20 U 6.20 U 1.00 U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 10/04/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 75 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U 7.34 U U 0.60	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014	7.30 8.00 489.40 <b>Low</b> U U 0.05 U 6.20 U 6.20 U 1.00 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017 09/22/2016	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 75 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U 7.34 U U 0.60 0.30	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U U 0.05 U 6.20 U 1.00 U 1.00 U U 0.20 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017 09/22/2016 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U 1.98 U U 0.38 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U 7.34 U U 0.60	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U U 0.05 U 6.20 U 6.20 U 1.00 U U 0.20 U U 1.94	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U U 0.38	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 10 10 10 10 10 10 10 75	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U 7.34 U U 0.60 0.30	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U U 0.05 U 6.20 U 1.00 U 1.00 U U 0.20 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 03/22/2016 07/11/2017 09/22/2016 09/08/2015	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U 1.98 U U 0.38 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U U 7.34 U U 0.60 0.30 2.36 4.00 U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 10/04/2016 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 05/07/2019 05/03/2021 03/25/2015 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 6.20 U 1.00 U 0.20 U 1.94 2.00 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 0.38 U U 2.13 2.71 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U U 7.34 U U 0.60 0.30 2.36 4.00 U U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 05/07/2019 05/03/2021 03/25/2015 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 0.05 U 1.00 U 0.20 U 1.94 2.00 U U U U U 0.20 U 1.94 2.00 U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 1.98 U U 0.38 U 2.13 2.71 U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U V 7.34 U U 0.60 0.30 2.36 4.00 U U U U U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 05/07/2019 05/03/2021 03/25/2015 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 0.05 U 1.00 U 0.20 U 1.94 2.00 U U U U U U 0.20 U U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/08/2015 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 1.98 U U 0.38 U 2.13 2.71 U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U U 8.54 U U 7.34 U U 0.60 0.30 2.36 4.00 U U U U U U U U U U U U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 05/07/2019 05/03/2021 03/25/2015 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 0.05 U 6.20 U 1.00 U 0.20 U 1.94 2.00 U U U U U U U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 0.38 U U 0.38 U 2.13 2.71 U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U V 7.34 U U 0.60 0.30 2.36 4.00 U U U U U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 05/07/2019 05/03/2021 03/25/2015 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 0.05 U 1.00 U 0.20 U 1.94 2.00 U U U U U U 0.20 U U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 1.98 U U 0.38 U 2.13 2.71 U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U U 8.54 U U 7.34 U U 0.60 0.30 2.36 4.00 U U U U U U U U U U U U	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 05/07/2019 05/03/2021 03/25/2015 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 0.05 U 6.20 U 1.00 U 0.20 U 1.94 2.00 U U U U U U U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 03/25/2015 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 0.38 U U 0.38 U 2.13 2.71 U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U U 7.34 U U U 0.60 0.30 2.36 4.00 U U U U U U U U U 113.00	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 05/07/2021 03/25/2015 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 <b>Low</b> U U 0.05 U 6.20 U 1.00 U 1.00 U 1.94 2.00 U U U U U U U U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 0.38 U 2.13 2.71 U U U U U U U U U U U 2.47	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lithium, dissolved Lead, dissolved Lithium, dissolved Maganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 75 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U U 7.34 U U U U 0.60 0.30 2.36 4.00 U U U U U U U U U U U U U U U U 0.60 0.30 2.36	09/06/2017 09/08/2021 <b>Date</b> 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 <b>Low</b> U U 0.05 U 6.20 U 1.00 U 1.00 U 1.94 2.00 U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017 07/11/2017 07/11/2017 12/01/2020 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 0.38 U 2.13 2.71 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Magnese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 75 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U 7.34 U U U 0.60 0.30 2.36 4.00 U U U U U U U U U U U U U U 0.60 34.00	09/06/2017 09/08/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 Low U U 0.05 U 6.20 U 1.00 U 1.00 U 1.94 2.00 U U U U U U U U U U U U 1.94 2.00 U U U U U 1.94 2.00 U U U U U 1.94 2.00 U U U U 1.94 2.00 U U U 1.94 2.00 U U U 1.94 2.00 U U U 1.94 2.00 U U U 1.94 2.00 U U 1.94 2.00 U U 1.94 2.00 U U 1.94 2.00 U U 1.94 2.00 U U U 1.94 2.00 U U U 1.94 2.00 U U U U U U U U U U U U U	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/08/2015 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 12/01/2020	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 1.98 U U 0.38 U 2.13 2.71 U U U U U U U U 2.13 2.71 U U 2.271 U U U U U U U U U 0.28	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	72 72 <b>No. of</b> <b>Samples</b> 10 10 10 75 10 75 10 10 10 10 10 10 10 10 10 10 10 10 10	16.70 550.40 High U 0.012 0.46 U 8.54 U V 7.34 U U U U 0.60 0.30 2.36 4.00 U U U U U U U U U U U U U U U 0.60 3.30 2.36 4.00 0 0.30 2.36 4.00 0 0 34.00 5,750	09/06/2017 09/08/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 04/06/2021 12/09/2014 06/07/2021 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014 12/09/2014	7.30 8.00 489.40 U U 0.05 U 6.20 U 1.00 U 1.00 U 1.94 2.00 U U U U U U U U U U 1.94 2.00 U U U U U 0.20 U 1.94 2.00 U U 0.20 U 1.94 2.00 U 0.20 U 0.20 U 1.94 2.00 U 0.20 0.20 U 0.20 U 0.20 0.20 U 0.20 0	01/14/2020 10/06/2020 <b>Date</b> 07/11/2017 07/11/2017 04/05/2016 07/11/2017 07/11/2017 07/11/2017 07/11/2017 09/22/2016 07/11/2017 09/27/2016 09/08/2015 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017	12.06 521.93 Average U U 0.28 U 7.58 U 1.98 U U 1.98 U U 0.38 U 2.13 2.71 U U U U U U U U U 2.13 2.71 U U U U U U U U U U 0.28 0 0 1.98 0 0 0 1.98 0 0 0 1.98 0 0 0 1.98 0 0 0 0 1.98 0 0 0 0 1.98 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 39: DS-6 Annual Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC. 21. Frank Contraction



	NI (	LP h	Data		Dete	A	11
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
	Samples 83	33,500	04/08/2019	9,000	12/07/2020	24,335	mg/l
Bicarbonate as CaCO3 Carbonate as CaCO3	83	16,600	08/02/2019	<u> </u>	12/07/2020	4,787	mg/l
Total Alkalinity as CaCO3	83	41,300	07/07/2016	9,060	12/07/2020	29,005	mg/l
Bromide	9	<u>41,300</u> U	12/17/2014	<u>9,000</u> U	04/05/2016	29,005 U	mg/l
Cation-Anion Balance	83	21.30	03/05/2020	-15.70	10/06/2020	-1.97	111 <u>9</u> /1 %
Sum of Anions	83	3,360.00	12/17/2014	302.00	12/07/2020	1,263.2	/o meq/l
Sum of Cations	83	3,230.00	12/17/2014	296.00	11/05/2021	1,201.3	meg/l
Chemical Oxygen Demand	9	3,630.00	11/05/2015	344.00	05/07/2019	1,693.1	mg/l
Chloride	83	96,000	12/30/2014	3,850	10/12/2021	24,257	mg/l
Conductivity, Lab	83	207,000	12/17/2014	24,000	11/02/2020	74,541	μmhos
Fluoride	83	106.00	12/10/2019	38.50	10/06/2020	64.43	mg/l
Hardness as CaCO3	83	82.40	12/16/2015	0.00	12/30/2014	29.97	mg/l
Nitrate as N, dissolved	9	0.03	05/07/2020	<u>UH</u>	12/17/2014	UH	mg/l
Nitrate/Nitrite as N,	9	0.03	05/07/2020	UH	12/17/2014	UH	mg/l
Nitrite as N, dissolved	9	UH	12/17/2014	UH	04/05/2016	UH	mg/l
Nitrogen, Ammonia	9	40.40	12/17/2014	3.33	05/04/2021	15.16	mg/l
Nitrogen, Organic	9	7.00	05/07/2019	3.00	05/04/2021	4.84	mg/l
Nitrogen, Total Kjeldahl	9	33.00	12/30/2014	1.10	11/05/2015	12.29	mg/l
pH, lab	83	9.10	05/06/2015	8.30	04/08/2020	8.61	units
Phosphate, total	9	71.00	11/05/2015	6.10	05/04/2021	37.46	mg/l
Phosphorus, total	9	23.00	11/05/2015	1.97	05/04/2021	12.12	mg/l
SAR in Water	29	7,600	06/08/2016	670.00	12/07/2021	2,551	none
Sulfate	83	480	12/30/2014	110.00	07/11/2017	350	mg/l
Sulfide	9	4.80	05/07/2019	1.30	12/17/2014	2.63	mg/l
Total Dissolved Solids	83	189,676	12/17/2014	16,600	11/05/2021	69,326	mg/l
Conductivity, Field	81	186,700	12/17/2014	23,190	09/07/2021	75,341	µmhos
	<b>•</b> •						
pH, Field	81	9.20	03/10/2016	7.10	12/17/2014	8.30	units
Temperature (°C), Field	81	17.60	07/08/2021	7.20	02/09/2021	12.90	units (°C)
Temperature (°C), Field Water Level, Field	81 82	17.60 643.10	07/08/2021 12/12/2014	7.20 478.76	02/09/2021 11/09/2016	12.90 503.11	(°C) Ft.
Temperature (°C), Field Water Level, Field Parameters	81 82 No. of	17.60	07/08/2021	7.20	02/09/2021	12.90	(°C)
Temperature (°C), Field Water Level, Field Parameters Metals	81 82 No. of Samples	17.60 643.10 <b>High</b>	07/08/2021 12/12/2014 Date	7.20 478.76 Low	02/09/2021 11/09/2016 Date	12.90 503.11 Average	(°C) Ft. Units
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved	81 82 No. of Samples 9	17.60 643.10 High	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014	7.20 478.76 Low	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017	12.90 503.11 <b>Average</b> U	(°C) Ft. <b>Units</b> mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9	17.60 643.10 High U U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014	7.20 478.76 Low U U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017	12.90 503.11 Average U U	(°C) Ft. Units mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9	17.60 643.10 High U U 1.90	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017	7.20 478.76 Low U U 0.40	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015	12.90 503.11 Average U U 1.13	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014	7.20 478.76 Low U U 0.40 U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017	12.90 503.11 Average U U 1.13 U	(°C) Ft. Units mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 9 9 9 83	17.60 643.10 High U U 1.90 U 66.00	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015	7.20 478.76 Low U U 0.40 U 7.10	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018	12.90 503.11 Average U U 1.13 U 23.89	(°C) Ft. Units mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 9 9 83 9	17.60 643.10 High U U 1.90 U 66.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 9 9 9 83 9 83 83	17.60 643.10 High U U 1.90 U 66.00 U 30.00	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015	7.20 478.76 Low U U 0.40 U 7.10 U 0.00	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014	12.90 503.11 Average U U 1.13 U 23.89 U 7.46	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 9 9 83 9 83 9 83 9	17.60 643.10 High U U 1.90 U 66.00 U 30.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	81 82 No. of Samples 9 9 9 9 9 9 9 9 9 9 83 9 83 9 83 9 83	17.60 643.10 High U U 1.90 U 66.00 U 30.00 U U U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 9 9 83 9 83 9 83 9 9 83 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 30.00 U U 5.00	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014 12/30/2014	7.20 478.76 Low U U U 0.40 U 7.10 U 0.00 U U 3.00	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/17/2014	12.90 503.11 Average U U 1.13 U 23.89 U 23.89 U 7.46 U U U 4.00	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	81 82 No. of Samples 9 9 9 9 9 9 9 9 9 83 9 9 83 9 9 83 9 9 9 9	17.60 643.10 High U U U 1.90 U 66.00 U 30.00 U 30.00 U U 5.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014 12/30/2014	7.20 478.76 Low U U U 0.40 U 7.10 U 0.00 U U 3.00 U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/17/2014 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U 4.00 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 9 83 9 9 83 9 9 83 9 9 9 9	17.60 643.10 High U U U 1.90 U 66.00 U 66.00 U 30.00 U 30.00 U U 5.00 U 2.70	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014 12/30/2014 12/17/2014 07/11/2017	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/17/2014 07/11/2017 12/30/2014	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U 4.00 U 2.00	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 66.00 U 30.00 U 30.00 U U 5.00 U 2.70 20.00	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 07/11/2017 06/17/2015	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 3.00 U 1.00 2.16	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/17/2014 07/11/2017 12/30/2014 10/12/2021	12.90 503.11 Average U U 1.13 U 23.89 U 23.89 U 7.46 U U U 4.00 U 2.00 13.52	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 66.00 U 30.00 U 0 5.00 U 2.70 20.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 07/11/2017 06/17/2015 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 3.00 U 1.00 2.16 U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U U 4.00 U 2.00 13.52 U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 30.00 U 0 30.00 U 2.70 20.00 U U 2.70 20.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 3.00 U 1.00 2.16	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 23.89 U 7.46 U U U 4.00 U 2.00 13.52	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 66.00 U 30.00 U 0 5.00 U 2.70 20.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 06/17/2015 12/17/2014 12/17/2014 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 3.00 U 1.00 2.16 U U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 23.89 U 7.46 U U U 4.00 U 2.00 13.52 U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	81 82 No. of Samples 9 9 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 30.00 U 30.00 U 2.70 20.00 U 2.70 20.00 U 2.70 20.00 U U 2.00 U	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00 2.16 U U U U U U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 23.89 U 7.46 U U U 4.00 U 2.00 13.52 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved	81 82 No. of Samples 9 9 9 9 9 83 9 9 9 9 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 30.00 U 0 0 U 5.00 U 2.70 20.00 U 2.70 20.00 U 2.70	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 06/17/2015 12/17/2014 12/17/2014 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00 2.16 U U U U U U U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U 23.89 U 7.46 U U 2.00 13.52 U U 13.52 U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Potassium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 83 9 9 9 9 9 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 66.00 U 30.00 U 30.00 U 0 2.70 20.00 U 2.70 20.00 U U 2.00 U U 140.00	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 04/05/2016 12/17/2014 09/09/2015	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00 2.16 U U U U U U U U U 14.60	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 07/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U 4.00 U 2.00 13.52 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	81 82 <b>No. of</b> <b>Samples</b> 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 30.00 U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 04/05/2016 12/17/2014	7.20 478.76 Low U U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00 2.16 U U U U U U U U U U U U U U U U U U U	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 07/11/2017 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017 07/11/2017 10/12/2021 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U 2.00 13.52 U U 2.00 13.52 U U U U U U U U U U U U U U U U U U U	(°C) Ft. Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	81 82 No. of Samples 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 30.00 U 30.00 U 30.00 U 2.70 20.00 U 2.70 20.00 U 2.70 20.00 U 140.00 U 140.00 U 55.00	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 04/05/2016 12/17/2014 09/09/2015 12/17/2014 06/08/2021	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00 2.16 U U U U U U U U 14.60 U U 16.00	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U 23.89 U 7.46 U U 2.00 13.52 U U U U U U U U U U U U U U 2.00 2.00	(°C) Ft. Units mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I
Temperature (°C), Field Water Level, Field Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Selenium, dissolved Selenium, dissolved	81 82 No. of Samples 9 9 9 9 83 9 9 83 9 9 9 9 9 9 9 9 9 9 9	17.60 643.10 High U U 1.90 U 66.00 U 0 66.00 U 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	07/08/2021 12/12/2014 <b>Date</b> 12/17/2014 12/17/2014 07/11/2017 12/17/2014 09/09/2015 12/17/2014 05/06/2015 12/17/2014 12/17/2014 12/17/2014 12/17/2014 12/17/2014 04/05/2016 12/17/2014 09/09/2015 12/17/2014 06/08/2021 12/17/2014	7.20 478.76 Low U U 0.40 U 7.10 U 0.00 U U 0.00 U U 3.00 U 1.00 2.16 U U U U U U U 14.60 U U 16.00 6,700	02/09/2021 11/09/2016 <b>Date</b> 07/11/2017 07/11/2017 11/05/2015 07/11/2017 01/09/2018 07/11/2017 12/30/2014 07/11/2017 12/30/2014 10/12/2021 07/11/2017 07/11/2017 07/11/2017 07/11/2017 07/11/2017 10/12/2021 07/11/2017 10/12/2021	12.90 503.11 Average U U 1.13 U 23.89 U 7.46 U U 4.00 U 4.00 13.52 U U U U U U U U U U U 2.00 13.52 U U 22.69 27,267	(°C) Ft. Units mg/I mg/I mg/I mg/I mg/I mg/I mg/I mg/I

#### Table 40: DS-7 Annual Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC. DIS# STORE TO DATA



			<u> </u>		<b>.</b>		
Parameters Wet Chemistry	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	23,300	01/15/2015	16,700	06/25/2019	10.244	ma/l
Bicarbonate as CaCO3 Carbonate as CaCO3	9 9	<u>23,300</u> 9,590	06/25/2019	4,200	01/15/2015	<u>19,344</u> 7,177	mg/l mg/l
Total Alkalinity as CaCO3	9	27,500	01/15/2015		09/28/2017	26,522	mg/l
Bromide	9	<u>27,500</u> U	01/08/2015	<u>23,300</u> UH	09/28/2017	<u>20,322</u> U	mg/l
Cation-Anion Balance	9	-1.40	06/25/2019	-9.50	01/08/2015	-4.23	%
Sum of Anions	9	586.00	06/03/2020	542.00	09/28/2017	566.11	meq/l
Sum of Cations	9	552.00	06/25/2019	477.00	01/08/2015	520.33	meg/l
Chemical Oxygen Demand	9	731.00	01/15/2015	95.00	09/28/2017	223.14	mg/l
Chloride	9	1,080	06/25/2019	900	01/15/2015	992	mg/l
Conductivity, Lab	9	37,100	06/19/2018	33,200	12/15/2015	35.022	μmhos
Fluoride	9	83.70	06/08/2021	61.80	06/19/2018	69.28	mg/l
Hardness as CaCO3	9	U	01/08/2015	U	09/28/2017	U	mg/l
Nitrate as N, dissolved	9	0.03	01/15/2015	0.00	01/08/2015	UH	mg/l
Nitrate/Nitrite as N,	9	0.03	01/15/2015	0.00	01/08/2015	UH	mg/l
Nitrite as N, dissolved	9	0.01	06/25/2019	0.00	01/08/2015	UH	mg/l
Nitrogen, Ammonia	9	10.50	01/15/2015	5.93	06/08/2021	7.97	mg/l
Nitrogen, Organic	9	10.00	06/08/2021	1.30	06/19/2018	5.30	mg/l
Nitrogen, Total Kjeldahl	9	15.60	06/08/2021	6.80	06/03/2020	12.38	mg/l
pH, lab	9	9.20	04/05/2016	8.70	01/08/2015	9.06	units
Phosphate, total	9	25.00	06/25/2019	15.00	12/15/2015	19.44	mg/l
Phosphorus, total	9	8.20	06/25/2019	4.90	12/15/2015	6.28	mg/l
SAR in Water	0	N/A	N/A	N/A	N/A	N/A	none
Sulfate	9	368	06/25/2019	100.00	01/08/2015	216	mg/l
Sulfide	9	2.18	06/08/2021	0.60	04/05/2016	1.44	mg/l
Total Dissolved Solids	9	30,100	06/25/2019	28,400	09/28/2017	29,233	mg/l
Conductivity, Field	9	39,750	12/15/2015	31,210		34,519	µmhos
pH, Field	9	9.23	06/19/2018	8.20	10/06/2014	8.90	units
Temperature (°C), Field	9	15.20	06/08/2021	11.20	10/06/2014	13.43	(°C)
Water Level, Field	9	499.50	06/08/2021	81.00	01/08/2015	450.33	Ft.
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples	nign	Dale	LOw	Dale	Average	Units
INICIAIS	Januares				00/00/0000		
		11	01/08/2015	11	06/03/2020	11	(1)(1/1
Aluminum, dissolved	9	U 0.07	01/08/2015	U 0.01	06/03/2020	U 0.03	mg/l mg/l
Aluminum, dissolved Arsenic, dissolved	9 9	0.07	01/15/2015	0.01	04/05/2016	0.03	mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved	9 9 9	•	01/15/2015 01/15/2015	0.01 0.30	04/05/2016 06/03/2020	0.03 0.58	mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	9 9 9 9	0.07 1.00 U	01/15/2015 01/15/2015 01/08/2015	0.01 0.30 U	04/05/2016 06/03/2020 06/03/2020	0.03 0.58 U	mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	9 9 9 9 9	0.07	01/15/2015 01/15/2015 01/08/2015 06/25/2019	0.01 0.30	04/05/2016 06/03/2020 06/03/2020 04/05/2016	0.03 0.58	mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	9 9 9 9 9 9	0.07 1.00 U 14.00 U	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015	0.01 0.30 U 12.70 U	04/05/2016 06/03/2020 06/03/2020 04/05/2016 06/03/2020	0.03 0.58 U 13.41 U	mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	9 9 9 9 9	0.07 1.00 U 14.00	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015	0.01 0.30 U 12.70	04/05/2016 06/03/2020 06/03/2020 04/05/2016 06/03/2020 06/03/2020	0.03 0.58 U 13.41	mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015	0.01 0.30 U 12.70 U U	04/05/2016 06/03/2020 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020	0.03 0.58 U 13.41 U U	mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015	0.01 0.30 U 12.70 U U U	04/05/2016 06/03/2020 06/03/2020 04/05/2016 06/03/2020 06/03/2020	0.03 0.58 U 13.41 U U U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U U U U U	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015	0.01 0.30 U 12.70 U U U U U	04/05/2016 06/03/2020 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020	0.03 0.58 U 13.41 U U U U U U	mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U U 2.70	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015	0.01 0.30 U 12.70 U U U U U 0.40	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017	0.03 0.58 U 13.41 U U U U U 1.44	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U U 2.70 U 4.93 U	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015 01/08/2015	0.01 0.30 U 12.70 U U U U U 0.40 U 4.20 U	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020	0.03 0.58 U 13.41 U U U U U 1.44 U 4.50 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U U 2.70 U 4.93 U U U U	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 06/08/2021 01/08/2015 01/08/2015	0.01 0.30 U 12.70 U U U U U 0.40 U 4.20 U U	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020	0.03 0.58 U 13.41 U U U U U 1.44 U 4.50 U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U U 2.70 U 4.93 U U U U U U U U U U U U U	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 06/08/2021 01/08/2015 01/08/2015 01/08/2015	0.01 0.30 U 12.70 U U U U U U 0.40 U 4.20 U U U U U U	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020	0.03 0.58 U 13.41 U U U U U 1.44 U U 4.50 U U U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U 4.93 U U U 0.50	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 06/08/2021 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015	0.01 0.30 U 12.70 U U U U U U 4.20 U U U U U U U 0.43	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/03/2020 06/03/2021	0.03 0.58 U 13.41 U U U U U 1.44 U U 4.50 U U U U U U 0.48	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U 4.93 U U U 0.50 0.30	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U 0.43 0.30	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/03/2020 06/03/2021 06/08/2021 01/15/2015	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U 0.48 0.30	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Potassium, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U U U U 0.50 0.30 68.00	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015 01/15/2015 04/05/2016	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U 0.43 0.30 43.00	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2021 01/15/2015 01/08/2015	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U U 0.48 0.30 60.10	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U 4.93 U U 0.50 0.30 68.00 U	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015 01/15/2015 04/05/2016 01/08/2015	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U U 0.43 0.30 43.00 U	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/08/2021 01/15/2015 01/08/2015 06/03/2020	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U U 0.48 0.30 60.10 U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U U 4.93 U U 0.50 0.30 68.00 U 60.00	01/15/2015 01/15/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015 01/15/2015 04/05/2016 01/08/2021	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U U U U	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/08/2021 01/15/2015 01/08/2015 06/03/2020 01/08/2015	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U U 0.48 0.30 60.10 U 35.67	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U U 4.93 U U 0.50 0.30 68.00 U 60.00 12,500	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015 01/15/2015 01/08/2015 01/08/2015 01/08/2015 06/08/2021 06/08/2021	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U U U U	04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 01/08/2015 01/08/2015 01/08/2015	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U U 0.48 0.30 60.10 U 35.67 11,778	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lead, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Solica, dissolved Solica, dissolved Strontium, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U 4.93 U U 0.50 0.30 68.00 U 60.00 12,500 0.10	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 04/05/2016 01/08/2015 06/08/2021 06/25/2019 01/15/2015	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U U U U	04/05/2016 06/03/2020 04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 01/08/2015 01/08/2015 01/08/2015	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U U U U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Solica, dissolved	9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	0.07 1.00 U 14.00 U U U U 2.70 U 4.93 U U 4.93 U U 0.50 0.30 68.00 U 60.00 12,500	01/15/2015 01/15/2015 01/08/2015 06/25/2019 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/08/2015 01/15/2015 01/15/2015 01/08/2015 01/08/2015 01/08/2015 06/08/2021 06/08/2021	0.01 0.30 U 12.70 U U U U U U U U U U U U U U U U U U U	04/05/2016 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 09/28/2017 06/03/2020 01/08/2015 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 06/03/2020 01/08/2015 01/08/2015 01/08/2015	0.03 0.58 U 13.41 U U U U U U U U U U U U U U U U 0.48 0.30 60.10 U 35.67 11,778	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 41: DS-8 Annual Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC. DIS# STORE TO DATA


Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry		підп	Dale	LOW	Date	Average	Units
Bicarbonate as CaCO3	Samples 10	20,200	06/02/2020	11,900	06/20/2018	14,250	ma/l
Carbonate as CaCO3	10	4,570	04/22/2019			2,643	mg/l
				1,880	09/28/2017		mg/l
Total Alkalinity as CaCO3	10	22,200	06/02/2020	14,300	09/28/2017	16,890	mg/l
Bromide	10	<u> </u>	11/04/2014	UH	09/28/2017	U	mg/l
Cation-Anion Balance	10	-1.90	09/28/2017	-83.70	06/02/2020	-12.32	%
Sum of Anions	10	474.00	06/02/2020	341.00	06/20/2018	399.50	meq/l
Sum of Cations	10	428.00	06/08/2021	42.00	06/02/2020	326.50	meq/l
Chemical Oxygen Demand	10	132.00	09/28/2017	90.00	06/02/2020	113.22	mg/l
Chloride	10	2,470	02/04/2015	830	06/08/2021	1,754	mg/l
Conductivity, Lab	10	28,900	06/08/2021	24,300	12/15/2015	26,490	µmhos
Fluoride	10	62.50	04/22/2019	41.40	06/20/2018	49.03	mg/l
Hardness as CaCO3	10	36.00	01/28/2015	0.00	12/15/2015	20.83	mg/l
Nitrate as N, dissolved	10	0.03	01/28/2015	U	11/04/2014	UH	mg/l
Nitrate/Nitrite as N,	10	0.04	01/28/2015	U	11/04/2014	UH	mg/l
Nitrite as N, dissolved	10	0.01	01/28/2015	U	11/04/2014	UH	mg/l
Nitrogen, Ammonia	10	7.40	01/28/2015	3.43	06/20/2018	5.20	mg/l
Nitrogen, Organic	10	6.00	06/08/2021	1.80	01/28/2015	3.99	mg/l
Nitrogen, Total Kjeldahl	10	10.50	06/08/2021	2.30	06/02/2020	8.08	mg/l
pH, lab	10	9.00	04/22/2019	8.60	06/08/2021	8.82	units
Phosphate, total	10	12.00	06/02/2020	3.70	02/04/2015	7.39	mg/l
Phosphorus, total	10	3.89	06/08/2021	1.20	02/04/2015	2.37	mg/l
SAR in Water	5	1,700	06/08/2021	83.00	06/02/2020	727	
SAN III Waler Sulfate	10	2,870	02/04/2015	10.80	04/22/2019		none ma/l
						588	mg/l
Sulfide	10	<u> </u>	11/04/2014		06/02/2020	U	mg/l
Total Dissolved Solids	10	23,500	04/22/2019	15,500	06/02/2020	20,000	mg/l
Conductivity, Field	9	29,450	04/22/2019	23,740	04/05/2016	26,858	µmhos
pH, Field	9	8.93	06/20/2018	7.20	01/29/2015	8.32	units
Temperature (°C), Field	9	14.35	06/20/2018	11.90	04/22/2019	13.15	(°C)
Water Level, Field	10		10/00/001/				
vvalei Levei, Fielu	10	470.10	10/29/2014	453.17	10/18/2018	456.73	Ft.
				-			
Parameters	No. of	High	Date	453.17 Low	Date	456.73 Average	Units
Parameters Metals	No. of Samples	High	Date	Low	Date	Average	Units
Parameters Metals Aluminum, dissolved	No. of Samples 10	High U	Date	Low U	Date 06/20/2018	Average	Units mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved	No. of Samples 10 10	High U 0.01	Date 11/04/2014 11/04/2014	Low U 0.00	Date 06/20/2018 02/04/2015	<b>Average</b> U 0.006	Units mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	No. of Samples 10 10 10	High U	Date 11/04/2014 11/04/2014 11/04/2014	Low U	Date 06/20/2018 02/04/2015 02/04/2015	Average	Units mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved	No. of Samples 10 10	High U 0.01	Date 11/04/2014 11/04/2014	Low U 0.00	Date 06/20/2018 02/04/2015	<b>Average</b> U 0.006	Units mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved	No. of Samples 10 10 10	High U 0.01 1.87	Date 11/04/2014 11/04/2014 11/04/2014	Low U 0.00 0.12	Date 06/20/2018 02/04/2015 02/04/2015	Average U 0.006 0.66	Units mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved	No. of Samples 10 10 10 10	High U 0.01 1.87 U	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014	Low U 0.00 0.12 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018	Average U 0.006 0.66 U	Units mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	No. of Samples 10 10 10 10 10 10	High U 0.01 1.87 U 13.90	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 11/04/2014	Low U 0.00 0.12 U 1.20 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018	Average U 0.006 0.66 U 9.22 U U	Units mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	No. of Samples 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           11/04/2014           11/04/2014           11/04/2014           11/04/2014	Low U 0.00 0.12 U 1.20	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015	Average U 0.006 0.66 U 9.22	Units mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 11/04/2014 11/04/2014 11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35	Units mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 0 6.00 U U U U	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 11/04/2014 11/04/2014 11/04/2014 11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U U U U U U U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 13.90 U 6.00 U U U 1.20	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U U U 0.20	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 12/15/2015	Average U 0.006 0.66 U 9.22 U 3.35 U U U 0.58	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 U 1.20 U	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U U 0.20 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 12/15/2015 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U U 0.58 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 U 1.20 U 4.09	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021	Low U 0.00 0.12 U 1.20 U 2.00 U U 0.20 U 0.20	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 12/15/2015 06/20/2018 06/20/2018 06/20/2020	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 6.00 U 1.20 U 1.20 U 4.09 7.00	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 01/28/2015	Low U 0.00 0.12 U 1.20 U 2.00 U U 0.20 U 0.20 U 0.20 4.00	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 06/20/2018 06/20/2018 12/15/2015 06/20/2018 12/15/2015 06/20/2018 06/02/2020 11/04/2014	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86 5.50	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 6.00 U 1.20 U 1.20 U 4.09 7.00 U	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 01/28/2015 11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U U 0.20 U 0.20 U 0.20 4.00 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 06/20/2018 06/20/2018 12/15/2015 06/20/2018 06/02/2020 11/04/2014 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0 0.58 U 2.86 5.50 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 U 1.20 U 1.20 U 4.09 7.00 U U U	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 01/28/2015 11/04/2014 11/04/2014 11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U 0.20 U 0.20 4.00 U U U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 06/20/2018 06/20/2018 12/15/2015 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86 5.50 U U U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 4.09 7.00 U U 0.30	Date 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 11/04/2014 06/08/2021 01/28/2015 11/04/2014 11/04/2014 11/04/2014 02/04/2015	Low U 0.00 0.12 U 1.20 U 2.00 U U 0.20 4.00 U U 0.20 4.00 U U 0.20	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 12/15/2015	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86 5.50 U U U 0.25	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 4.09 7.00 U U 0.30 U	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U 0.20 U 0.20 4.00 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U 0.20 U U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 12/15/2015 06/20/2018 06/02/2020 11/04/2014 06/20/2018 12/15/2015 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86 5.50 U U U 0.25 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 4.09 7.00 U U 0.30 U 30.00	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014           02/04/2015           11/04/2014           04/22/2019	Low U 0.00 0.12 U 1.20 U 2.00 U 2.00 U 0.20 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 12/15/2015 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86 5.50 U U 0.25 U U 23.84	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 1.20 U 1.20 U 1.20 U 0.01 U 0.01 U 0.01 0 0 0 0 0 0 0 0 0 0 0 0 0	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014           02/04/2015           11/04/2014           04/22/2019           11/04/2014	Low U 0.00 0.12 U 1.20 U 2.00 U 0.20 U 0.20 4.00 U 0.20 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 12/15/2015 06/20/2018 12/15/2015 06/20/2018 06/20/2018 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 0 2.86 5.50 U U 0 0.25 U U 23.84 U	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 1.20 U 1.20 U 0.30 U 0.30 U 30.00 U 29.00	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014           04/22/2019           11/04/2014           04/22/2019	Low U 0.00 0.12 U 1.20 U 2.00 U 2.00 U 0.20 U	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 0 2.86 5.50 U U 0 0.25 U 23.84 U 20.40	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Chromium, dissolved Lead, dissolved Lithium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 4.09 7.00 U 4.09 7.00 U 0.30 U 0.30 U 30.00 U 29.00 9,700	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014           04/22/2019           11/04/2014           04/22/2019           06/08/2021	Low U 0.00 0.12 U 1.20 U 2.00 U 0.20 0.20 0.20 U 0.20 0	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 0 2.86 5.50 U U 0 0.25 U 23.84 U 20.40 7,394	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Lead, dissolved Lead, dissolved Lithium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Selenium, dissolved Selenium, dissolved Sodium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 1.20 U 1.20 U 4.09 7.00 U 4.09 7.00 U U 0.30 U 30.00 U 29.00 9,700 1.10	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014           04/22/2019           11/04/2014           04/22/2019           06/08/2021           06/08/2021	Low U 0.00 0.12 U 1.20 U 2.00 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 U 0.20 0.20 U 0.20 0	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 2.86 5.50 U U 2.86 5.50 U U 23.84 U 20.40 7,394 0.30	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Parameters Metals Aluminum, dissolved Arsenic, dissolved Barium, dissolved Beryllium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Lead, dissolved Lithium, dissolved Lithium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Selenium, dissolved	No. of Samples 10 10 10 10 10 10 10 10 10 10 10 10 10	High U 0.01 1.87 U 13.90 U 6.00 U 0 1.20 U 1.20 U 1.20 U 1.20 U 0.30 U U 0.30 U 30.00 U 29.00 9,700	Date           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           11/04/2014           06/08/2021           01/28/2015           11/04/2014           02/04/2015           11/04/2014           04/22/2019           11/04/2014           04/22/2019           06/08/2021	Low U 0.00 0.12 U 1.20 U 2.00 U 0.20 0.20 0.20 U 0.20 0	Date 06/20/2018 02/04/2015 02/04/2015 06/20/2018 06/02/2020 06/20/2018 02/04/2015 06/20/2018 06/20/2018 06/02/2020 11/04/2014 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018 06/20/2018	Average U 0.006 0.66 U 9.22 U 3.35 U U 0.58 U 0 2.86 5.50 U U 0 0.25 U 23.84 U 20.40 7,394	Units mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 42: DS-9 Annual Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC. DI FERREN CONTRACTOR



Deveneters		1.12 1-	Dete	Leve	Data	A	11
Parameters	No. of	High	Date	Low	Date	Average	Units
Wet Chemistry	Samples	44,400	07/00/0001	17.000	10/01/0000	00 540	
Bicarbonate as CaCO3	30	41,100	07/08/2021	17,200	12/01/2020	23,510	mg/l
Carbonate as CaCO3	30	13,800	09/07/2021	566	09/03/2020	4,083	mg/l
Total Alkalinity as CaCO3	30	50,300	07/08/2021	19,400	11/02/2020	27,587	mg/l
Bromide	4	<u> </u>	08/14/2019	U	05/03/2021	<u> </u>	mg/l
Cation-Anion Balance	29	13.50	05/13/2020	-33.30	04/07/2020	-4.50	%
Sum of Anions	29	1,230.00	07/08/2021	447.00	11/02/2020	786.34	meq/l
Sum of Cations	29	1,280.00	09/07/2021	353.00	12/01/2020	726.62	meq/l
Chemical Oxygen Demand	4	400.00	08/14/2019	400.00	08/14/2019	400.00	mg/l
Chloride	29	19,800	09/10/2019	2,040	11/02/2020	8,072	mg/l
Conductivity, Lab	30	74,500	09/10/2019	25,000	12/01/2020	49,843	µmhos
Fluoride	29	109.00	09/07/2021	29.00	09/10/2019	65.28	mg/l
Hardness as CaCO3	29	18.00	10/07/2019	7.00	04/05/2021	12.00	mg/l
Nitrate as N, dissolved	4	U	08/14/2019	UH	05/03/2021	UH	mg/l
Nitrate/Nitrite as N,	4	U	08/14/2019	UH	05/03/2021	UH	mg/l
Nitrite as N, dissolved	4	U	08/14/2019	UH	05/03/2021	UH	mg/l
Nitrogen, Ammonia	4	11.80	08/20/2019	8.55	05/03/2021	10.44	mg/l
Nitrogen, Organic	4	9.00	05/03/2021	5.00	08/14/2019	6.67	mg/l
Nitrogen, Total Kjeldahl	4	18.00	08/20/2019	2.10	05/13/2020	13.10	mg/l
pH, lab	30	8.90	04/07/2020	8.50	06/02/2020	8.69	units
Phosphate, total	4	31.00	05/03/2021	22.00	08/14/2019	25.25	mg/l
Phosphorus, total	4	9.95	05/03/2021	7.10	08/14/2019	8.11	mg/l
SAR in Water	9	4,200	08/02/2021	1,200.00	11/02/2020	2,414	none
Sulfate	29	U	08/14/2019	U	05/03/2021	Ū	mg/l
Sulfide	4	10.00	05/13/2020	1.38	08/14/2019	5.17	mg/l
Total Dissolved Solids	29	67,700	09/07/2021	22,700	12/01/2020	41,734	mg/l
Conductivity, Field	29	70,540	08/20/2019	28,730	12/01/2020	48,245	μmhos
pH, Field	28	8.90	01/11/2021	8.20	12/01/2020	8.55	units
Temperature (°C), Field	29	15.90	07/08/2021	9.32	02/10/2020	12.13	(°C)
Water Level, Field	30	627.80	04/07/2020	565.60	01/11/2021	591.36	Ft.
	50	027.00	04/07/2020	505.00	01/11/2021	531.50	
Parameters	No. of	High	Date	Low	Date	Average	Units
Metals	Samples		2410		Date	, tronage	0
Aluminum, dissolved	4	U	08/14/2019	U	05/03/2021	U	mg/l
Arsenic, dissolved	4	0.01	08/14/2019	0.01	08/14/2019	0.01	mg/l
Barium, dissolved	4	1.90	08/20/2019	1.64	05/03/2021	1.81	mg/l
Beryllium, dissolved	4	U	08/14/2019	U	05/03/2021	U	mg/l
Boron, dissolved	29	61.00	09/07/2021	11.50	12/01/2020	23.14	mg/l
Cadmium, dissolved	4	U	08/14/2019	U U	05/03/2021	<u> </u>	mg/l
Calcium, dissolved					08/02/2021		
Chromium, dissolved	<u>29</u> 4	7.00 U	10/07/2019 08/14/2019	2.63 U	05/03/2021	<u>4.79</u> U	mg/l mg/l
	4	U U		U		U	
Copper, dissolved	4	U U	08/14/2019	U	05/03/2021	U	mg/l
Iron, dissolved			08/14/2019	_	05/03/2021	_	mg/l
Lead, dissolved	4	U	08/14/2019	U	05/03/2021	U	mg/l
Lithium, dissolved	4	3.70	05/13/2020	3.50	08/14/2019	3.60	mg/l
Magnesium, dissolved	29	U	08/14/2019	U	05/03/2021	<u> </u>	mg/l
Manganese, dissolved	4	U	08/14/2019	U	05/03/2021	U	mg/l
Mercury, dissolved	4	U	08/14/2019	U	05/03/2021	<u> </u>	mg/l
Molybdenum, dissolved	4	U	08/14/2019	U	05/03/2021	U	mg/l
Nickel, dissolved	4	U	08/14/2019	U	05/03/2021	U	mg/l
Potassium, dissolved	29	800.00	08/20/2019	44.10	12/01/2020	248.41	mg/l
Selenium, dissolved	4	0.0021	05/03/2021	U	08/14/2019	U	mg/l
Silica, dissolved	29	31.00	12/09/2019	15.00	12/01/2020	22.72	mg/l
	29	29,100	09/07/2021	7,990	12/01/2020	16,369	mg/l
Sodium, dissolved							
Sodium, dissolved Strontium, dissolved	29	0.42	12/06/2021	0.20	08/02/2021	0.26	mg/l
Strontium, dissolved Vanadium, dissolved			12/06/2021 08/14/2019	0.20 U	08/02/2021 05/03/2021	0.26 U	mg/l mg/l
Strontium, dissolved	29	0.42					

#### Table 43: DS-10 Annual Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC.



Wet Chemistry         Samples         Samples         Chemistry         Date         Date <thdate< th=""> <thdate< th="">         Dat</thdate<></thdate<>	Parameters	No. of	High	Date	Low	Date	Average	Units
Bicarbonate as CaCO3         63         30,400         06/25/2019         294         09/16/1991         8,544         motil           Total Alkalinity as CaCO3         63         32,000         06/25/2019         294         09/16/1991         9,520         motil           Cation-Anion Balance         63         61.0         03/28/2018         26.9         06/25/2019         226.3         medil           Sum of Anions         60         663.00         06/25/2019         30.6         06/25/2019         226.53         medil           Chemical Crygen Demand         29         960.00         06/14/2008         37.00         09/27/2017         1764.79         medil           Conductivity, Lab         61         37.300         09/27/2013         2.500         06/16/1992         356.10         mmdi           Hirate as N. dissolved         32         4.14         10/22/2013         0.00         05/27/2007         0.51         multi           Nitrogen, Amissolved         32         4.14         10/22/2013         0.00         05/27/2007         0.51         mg/l           Nitrogen, Amissolved         32         4.00         06/14/2008         1.00         05/27/2007         0.51         mg/l           Nitrogen,			ingn	Date	LOW	Date	Average	Units
Carbonate as CaCO3         63         4,730         11/02/2015         10.00         06/30/1995         1.080         mg/l           Total Alkaliniva SCACO3         63         33.00         08/30/1990         0.10         05/21/2007         7.54         mg/l           Cation-Anion Balance         63         6.10         03/28/2018         26.90         08/25/2019         2.19         %.           Sum of Anions         60         409.00         03/09/202         1.156         05/25/1992         225.34         meg/l           Chemical Corgen Demand         29         960.00         06/14/2008         70.00         98/27/2017         154.70         mg/l           Conductivity, Lab         61         37.300         06/25/2019         2.500         06/16/1992         13.361         µm/l           Hardness as CaCO3         63         135.00         06/14/2008         0.00         05/24/2005         0.51         mg/l           Nitrate/Nitrite as N, dissolved         32         0.92         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Ammoni			20,400	06/25/2010	204	00/16/1001	0 5 4 4	ma/l
Total Akalinity as CaCO3         63         32,000         09/25/2019         294         09/16/1919         9,520         mg/l           Gation-Anion Balance         63         6.10         03/28/2018         26,90         06/25/2019         22,534         mg/l           Sum of Anions         60         409,00         03/09/2020         31,56         05/28/1991         225,57         mg/l           Chemical Oxygen Demand         29         960,00         06/14/2008         37,00         09/27/2017         154,78         mg/l           Conductivity, Lab         61         37,300         06/25/2019         2,500         06/16/1992         13,561         umhos           Mitrate as, N, dissolved         32         14         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitrate as, N, dissolved         32         4.14         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitrate as, N, dissolved         32         7.90         11/06/2014         1.17         09/15/2007         0.61         mg/l           Nitrate as, N, dissolved         32         46.00         06/14/2008         1.50         0.62/21907         0.51         mg/l           Ni								
Bromide         32         33.00         08/30/1990         0.10         05/21/2007         7.54         mpd/           Cation-Anions         60         663.00         08/25/2191         30.69         03/25/1992         225.34         med/           Sum of Anions         60         409.00         03/09/200         15.6         05/28/1991         205.87         med/           Chemical Oxygen Demand         29         960.00         06/14/2008         37.00         09/27/2017         154.79         mg/           Conductivity. Lab         61         37.300         06/25/2013         2.500         06/16/1992         13.561         Immide           Hardness as CaCO3         63         135.00         06/14/2008         6.00         08/30/1990         25.47         mg/           Nitrate/nitrite as N. dissolved         32         0.92         10/22/2013         0.02         05/24/2005         0.51         mg/           Nitracen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         um/           Nitrogen, Craanic         32         46.00         06/14/2008         0.50         08/22/1990         7.38         mg/           Nitrogen, Cratal Kieldahi         <								
Gation-Anion Balance         63         6.10         03/28/2018         -26.90         06/25/2019         -22.19         -%           Sum of Anions         60         663.00         06/25/2019         30.69         03/25/1992         225.34         meg/l           Chemical Oxygen Demand         29         960.00         03/09/2021         21.00         08/30/1990         356.10         mg/l           Conductivity, Lab         61         37.300         06/25/2019         2.500         06/16/1992         13.561         µmhos           Hardness as CaCO3         63         135.00         06/14/2008         6.00         08/30/1991         27.22         mg/l           Nitrate as N, dissolved         32         4.14         10/22/2013         0.02         05/21/2007         0.51         mg/l           Nitrate as N, dissolved         32         7.90         11/06/2014         1.17         06/12/2019         1.30         05/21/2007         0.51         mg/l           Nitroteas N, dissolved         32         7.90         11/06/2014         1.17         06/12/2018         0.50         08/22/1990         1.58         mg/l           Nitroteas Avides         32         5.00         06/14/2008         1.50         06/22/2019								
Sum of Anions         60         663.00         08/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         205/25/199         235/25/25/25/25/25/25/25/25/25/25/25/25/25								mg/i
Sum of Cations         60         409.00         03/09/2020         31.56         05/28/1991         205.87         meq/l           Chemical Oxygen Demand         29         960.00         06/14/2008         87.00         08/27/2017         154.79         mg/l           Conductivity, Lab         61         37.300         08/25/2019         2,500         06/16/1992         13.56         µµmhog           Mardness as CaCO3         63         135.00         06/14/2008         6.00         08/30/1990         25.47         mg/l           Nitrates AN, dissolved         32         4.14         10/22/2013         0.02         09/27/2017         0.51         mg/l           Nitrates/Nitrie as N, dissolved         32         0.92         10/22/2013         0.00         05/21/2007         0.15         mg/l           Nitrogen, Caranic         32         46.00         06/14/2008         0.50         08/22/1990         10.98         mg/l           Nitrogen, Caranic         32         46.00         06/14/2008         1.90         08/22/1990         10.98         mg/l           Nitrogen, Caranic         32         46.00         06/14/2008         1.90         08/22/1990         10.98         mg/l           Phosphate, tot								
Chemical Oxygen Demand         29         960.00         06/14/2006         37.00         09/27/2017         154.79         mg/           Chloride         62         739.00         03/09/2021         1.30         05/28/199         35.61         µmhos           Hardness as CaCO3         63         48.30         03/09/2021         1.30         05/28/1991         27.22         mg/           Hardness as CaCO3         63         135.00         06/14/2008         6.00         08/30/1990         25.47         mg/           Nitrate/Nitrle as N, dissolved         32         3.22         10/22/2013         0.02         05/24/2007         0.15         mg/           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/           Nitrogen, Channoia         32         7.90         11/06/2014         1.17         09/15/1992         1.83         mg/           Nitrogen, Channoia         32         4.60         06/14/2008         1.90         06/22/1990         1.03         8.65         units           Phosphate, total         30         155.00         05/21/2007         8.17         09/15/1992         1.80         06/18/1996         18.09         1.72								
Chloride         62         739.00         03/09/2021         21.00         08/30/1990         350.10         mg/l           Hardness as CaCO3         63         48.30         03/09/2021         1.30         05/28/1991         27.22         mg/l           Nitrate as N. dissolved         32         3.22         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitrate as N. dissolved         32         4.14         10/22/2013         0.00         05/21/2007         0.61         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Total Kjeldahi         32         51.00         06/14/2008         1.90         08/22/1990         10.98         mg/l           Phosphate, total         30         155.00         05/21/2007         0.01         09/15/1992         1.83         mg/l           SAR in Water         57         1.020.00         05/21/2007         8.38         03/25/1992         1.83         mg/l           Suffate         62         2.93.00         05/21/201         0.05         09/15/1992         1.83         mg/l           Suffate         52         3.10<	Sum of Cations							
Conductivity, Lab         61         37.300         06/25/2019         2.500         66/16/1992         13.561         µmhce           Hardness as CaCO3         63         135.00         03/09/2021         1.30         05/28/1991         27.22         mg/l           Nitrate as N, dissolved         32         3.22         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitrate, N, dissolved         32         0.92         10/22/2013         0.00         05/21/2007         0.61         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Caranic         32         46.00         06/14/2008         0.50         08/22/1990         7.38         mg/l           Nitrogen, Caranic         32         46.00         06/14/2008         0.50         08/22/1990         7.38         mg/l           Nitrogen, Total Kieldahi         32         51.00         06/14/2008         0.50         08/32/1992         18.32         mg/l           SAR in Water         57         1.020.00         06/21/2007         0.17         09/15/1992         18.33         mg/l           Conductivity, Field								
Fluoride         63         48.30         03/09/2021         1.30         05/28/1991         27.22         mg/l           Nitrate as N, dissolved         32         3.22         10/22/2013         0.02         09/27/2017         0.61         mg/l           Nitrate as N, dissolved         32         4.14         10/22/2013         0.00         09/27/2017         0.61         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Organic         32         46.00         06/14/2008         1.90         08/22/1990         7.38         mg/l           Phosphate, total         30         155.00         05/21/2007         0.07         09/15/1992         1.83         mg/l           Phosphate, total         33         4.70         09/15/2010         0.00         06/18/1991         1.57.2         mg/l           Sulfate         62         2.031.00         05/21/2007         88.89         03/25/1992         1.83         mg/l           Sulfate         62         2.031.00         09/15/1991         2.50         mg/l         1.07/2015         8.90         1.07/2015         8.90         units								
Hardness as CaC03         63         135.00         06/14/2008         6.00         08/30/1990         25.47         mg/l           Nitrate as N, dissolved         32         3.22         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitrate/Nitrite as N, dissolved         32         0.92         10/22/2013         0.00         05/21/2007         0.61         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Ammonia         32         7.90         10/6/14/2008         1.90         08/22/1990         7.38         mg/l           Nitrogen, Total Kieldahl         32         51.00         06/14/2008         1.90         08/22/1990         7.38         mg/l           Phosphate, total         30         155.00         05/12/1007         0.17         09/15/1992         18.37         mg/l           SAR in Water         57         1.020.00         09/15/1991         2.50         06/18/1996         6.91.8         mg/l           Conductivity, Field         80         3.23.1         08/30/1990         0.00         07/31/1991         0.57         mg/l           Conductivity, Field </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>µmhos</td>								µmhos
Nitrate as N, dissolved         32         3.22         10/22/2013         0.02         05/24/2005         0.51         mg/l           Nitritate/Nitrite as N, dissolved         32         4.14         10/22/2013         0.00         05/21/2007         0.15         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Organic         32         46.00         06/14/2008         0.50         08/22/1990         10.98         mg/l           Nitrogen, Total Kieldahl         32         51.00         06/14/2008         1.50         08/22/1990         10.98         mg/l           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         1.83         mg/l           Phosphate, total         33         4.70         09/15/2190         0.05         09/15/1992         1.83         mg/l           Sulfate         62         2.031.00         09/15/2191         1.708         09/15/1992         10.767         mg/l           Conductivity, Field         80         36.320         03/09/2020         1.800         06/01/1991         1.335         µmho         mg/l         10.767 <t< td=""><td>Fluoride</td><td></td><td>48.30</td><td>03/09/2021</td><td>1.30</td><td>05/28/1991</td><td></td><td>mg/l</td></t<>	Fluoride		48.30	03/09/2021	1.30	05/28/1991		mg/l
Nitrate/Nitrite as N.         32         4.14         10/22/2013         0.02         09/27/2017         0.61         mg/l           Nitrogen, Ammonia         32         0.92         10/22/2013         0.00         05/21/2007         0.15         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Total Kieldah         32         51.00         06/14/2008         1.90         08/22/1990         10.38         mg/l           Phosphate, total         30         155.00         06/21/2007         0.61         09/15/1992         1.83         mg/l           SAR in Water         57         1.020.00         05/21/2007         88.89         03/25/192         398.48         none           Sulfate         62         2,031.00         09/16/1991         2.50         06/18/1996         169.18         mg/l           Conductivity, Field         82         3.31         08/30/1990         0.00         07/31/1991         0.57         mg/l           Conductivity, Field         82         3.20         03/09/2021         4.05.03         04/01/2001         13.35         (Cb)           Temperature ('C), Field         44	Hardness as CaCO3	63	135.00	06/14/2008	6.00	08/30/1990	25.47	mg/l
Nitrite as N, dissolved         32         0.92         10/22/2013         0.00         05/21/2007         0.15         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Organic         32         46.00         06/14/2008         0.50         08/22/1990         7.38         mg/l           Nitrogen, Total Kjeldahi         32         51.00         06/14/2008         1.30         08/30/1992         8.55         units           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         15.72         mg/l           Phosphate, total         33         4.70         09/15/2010         0.05         09/15/1992         18.83         none           Sulfate         62         2,031.00         09/16/1991         2.50         06/18/1996         10.00         07/31/1991         0.57         mg/l           Conductivity, Field         80         36,320         03/09/2020         1,800         06/11/1901         13.35         µmhos           Total Dissolved Solids         52         9/01/1990         7.36         11/07/2015         8.90         units           Temperat	Nitrate as N, dissolved	32	3.22	10/22/2013	0.02	05/24/2005	0.51	mg/l
Nitrite as N, dissolved         32         0.92         10/22/2013         0.00         05/21/2007         0.15         mg/l           Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Organic         32         46.00         06/14/2008         0.50         08/22/1990         7.38         mg/l           Nitrogen, Total Kjeldahi         32         51.00         06/14/2008         1.30         08/30/1992         8.55         units           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         15.72         mg/l           Phosphate, total         33         4.70         09/15/2010         0.05         09/15/1992         18.83         none           Sulfate         62         2,031.00         09/16/1991         2.50         06/18/1996         10.00         07/31/1991         0.57         mg/l           Conductivity, Field         80         36,320         03/09/2020         1,800         06/11/1901         13.35         µmhos           Total Dissolved Solids         52         9/01/1990         7.36         11/07/2015         8.90         units           Temperat	Nitrate/Nitrite as N,	32	4.14	10/22/2013	0.02	09/27/2017	0.61	mg/l
Nitrogen, Ammonia         32         7.90         11/06/2014         1.17         09/15/1992         4.05         mg/l           Nitrogen, Total Kjeldahl         32         46.00         06/14/2008         0.50         08/22/1990         10.98         mg/l           ph         lab         63         9.20         06/16/1992         8.30         06/30/1995         8.65         units           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         1.83         mg/l           Suffate         62         2.031.00         09/16/1991         2.50         06/18/1992         18.37         mg/l           Suffate         62         2.031.00         09/16/1991         2.50         06/18/1992         10.77         mg/l           Conductivity, Field         82         3.31         08/30/1990         0.00         07/31/1991         10.35         µm/lo           Conductivity, Field         80         36.320         03/09/2021         1,800         06/01/1991         13.35         µm/lo           Temperature (*C), Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No.o								
Nitrogen, Organic         32         46.00         06/14/2008         0.50         08/22/1990         7.38         mg/l           Nitrogen, Total Kieldahi         32         51.00         06/14/2008         1.90         08/22/1990         10.98         mg/l           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         18.57         mg/l           Phosphorus, total         33         4.70         09/15/2010         0.05         09/15/1992         384.48         none           Sulfate         62         2.031.00         09/16/1991         2.50         06/18/1996         189.18         mg/l           Sulfate         62         2.9.000         06/25/2019         1.708         09/15/1992         10.767         mg/l           Conductivity, Field         80         36.320         03/09/2020         1.800         06/01/1991         13.335         µmhos           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         0.30/9/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No.o								
Nitrogen, Total Kieldahl         32         51.00         06/14/2008         1.90         08/22/1990         10.98         mg/l           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         15.72         mg/l           Phosphate, total         33         4.70         09/15/2010         0.05         09/15/1992         1.83         mg/l           SAR in Water         57         1.020.00         05/21/2007         88.89         03/25/1992         38.48         none           Sulfate         62         2.031.00         09/15/1991         2.50         06/18/1992         10.767         mg/l           Total Dissolved Solids         62         2.90.00         06/25/2019         1.708         09/15/1991         1.335         µmhos           Conductivity, Field         80         36.320         03/09/2021         480         36.325         (%0/11/1990         7.50         12/01/1990         12.35         (%C)           Temperature (*C), Field         44         19.40         08/01/1990         7.66         11/07/2015         8.90         units           Materiang         Samples         1.40         09/15/2010         0.05         06/23/1994         0.61								
PH, lab         63         9.20         06/12/12007         0.17         09/15/1992         8.65         units           Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         15.72         mg/l           SAR in Water         57         1.020.00         05/21/2007         88.89         03/25/1992         398.48         none           Sulfate         62         2.031.00         09/16/1991         2.50         06/18/1996         169.18         mg/l           Conductivity, Field         80         36.320         03/09/2020         1.800         06/01/1991         13.335         µmhos           pH, Field         79         12.20         09/01/1990         7.86         11/07/2015         8.90         units           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.05         (%tot1/1990)         12.05         (%tot1/1991)         12.05         (%tot1/1990)         12.05         (%tot1								
Phosphate, total         30         155.00         05/21/2007         0.17         09/15/1992         15.72         mg/l           Phosphorus, total         33         4.70         09/15/2010         0.05         09/15/1992         1.83         mg/l           SAR in Water         57         1.020.00         05/21/2007         88.89         03/25/1992         1.83         mg/l           Sulfate         62         2.031.00         09/16/1991         2.50         06/18/1996         169.18         mg/l           Total Dissolved Solids         62         29,000         06/25/2019         1.708         09/15/1992         10.767         mg/l           Conductivity, Field         80         36.320         03/09/2021         1.800         06/01/1990         13.335         µmhos           pJ, Field         79         12.20         09/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32								
Phosphorus, total         33         4.70         09/15/2010         0.05         09/15/1992         1.83         mg/l           SAR in Water         57         1.020.00         05/21/2007         88.89         03/25/1992         398.48         none           Sulfide         62         2.031.00         09/16/1991         2.50         06/18/1996         169.18         mg/l           Total Dissolved Solids         62         29.000         06/25/2019         1.708         09/15/1991         0.57         mg/l           Conductivity, Field         80         36.320         03/09/2020         1.800         06/01/1991         13.335         µmhos           perpature (°C), Field         44         19.40         08/01/1990         7.56         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         0.405         08/22/1990         0.001         09/15/1992         0.027         mg/l           Acsenic, dissolved         32 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
SAR in Water         57         1,020.00         05/21/2007         88.89         03/25/1992         398.48         none           Sulfate         62         2,031.00         09/16/1991         2.50         06/18/1996         169.18         mg/1           Total Dissolved Solids         62         29.000         06/25/2019         1,708         09/15/1992         10.767         mg/1           Conductivity, Field         80         36.320         03/09/2020         1,800         06/01/1991         13.335         µmhos           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of         High         Date         Low         Date         Average         Units           Metals         Samples         -         0.005         08/22/1990         0.001         09/15/1992         0.0027         mg/1           Barium, dissolved         32         0.40         09/15/2010         0.08         0.01         09/15/1992         4.03         mg/1								
Sulfate         62         2,031.00         09/16/1991         2.50         06/18/1996         169.18         mg/l           Total Dissolved Solids         62         29,000         06/25/2019         1.708         09/15/1992         10.767         mg/l           Conductivity, Field         80         36,320         03/09/2020         1.800         06/01/1991         13.335         µmhos           pH, Field         79         12.20         09/01/1990         7.86         11/07/2015         8.90         units           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of Metals         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Barium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmum, dissolved         32								
Sulfide         32         3.31         08/30/1990         0.00         07/31/1991         0.57         mg/l           Total Dissolved Solids         62         29,000         06/25/2019         1,708         09/15/1992         10,767         mg/l           Conductivity, Field         80         36,320         03/09/2020         1,800         06/01/1991         13,335         µmhos           PH, Field         79         12.20         09/01/1990         7.86         11/07/2015         8.90         units           Temperature (*C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (*C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Barium, dissolved         32         0.005         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         63         8.70	SAR IN Waler							
Total Dissolved Solids         62         29,000         06/25/2019         1,708         09/15/1992         10,767         mg/l           Conductivity, Field         80         36,320         03/09/2020         1,800         06/01/1991         13,335         µmhos           Temperature (°C), Field         44         19.40         08/01/1990         7.56         11/07/2015         8.90         units           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Barium, dissolved         32         0.005         08/22/1990         U         06/30/1995         U         mg/l           Beryllium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Conductivity, Field         80         36,320         03/09/2020         1,800         06/01/1991         13,335         µmhos           DH, Field         79         12,20         09/01/1990         7.86         11/07/2015         8.90         units           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of Samples         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Arsenic, dissolved         32         0.005         08/22/1990         0.08         09/15/1992         4.03         mg/l           Barium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32         0.								
pH, Field         79         12.20         09/01/1990         7.86         11/07/2015         8.90         units           Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of Samples         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/           Barium, dissolved         32         0.005         08/22/1990         0.001         09/15/1992         4.03         mg/           Barium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/           Cadmium, dissolved         32         0.20         11/02/2015         0.01         07/29/2009         U         mg/           Chromium, dissolved         32         0.31 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
Temperature (°C), Field         44         19.40         08/01/1990         7.50         12/01/1990         12.35         (°C)           Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of Metals         High         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/           Arsenic, dissolved         32         0.005         08/22/1990         0.001         09/15/1992         4.03         mg/           Barium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/           Boron, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/           Cadroium, dissolved         32         U         08/22/1990         U         06/30/1994         U         mg/           Chromium, dissolved         32         0.20         11/02/20								
Water Level, Field         57         422.90         03/09/2021         405.03         04/01/2001         410.65         Ft.           Parameters         No. of Metals         High Samples         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Arsenic, dissolved         32         0.005         08/22/1990         0.001         09/15/1992         0.0027         mg/l           Barium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Boron, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Calcium, dissolved         32         0.20         11/02/2018         0.01         06/23/1994         U         mg/l           Copper, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Lead, dissolved         32         0.04         07								
Parameters         No. of Samples         High Samples         Date         Low         Date         Average         Units           Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Arsenic, dissolved         32         0.005         08/22/1990         0.001         09/15/1992         0.0027         mg/l           Barium, dissolved         31         6.65         09/15/2010         0.08         09/15/1992         4.03         mg/l           Beryllium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadinium, dissolved         32         0.20         11/02/2015         0.01         06/23/1994         U         mg/l           Calcium, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Copper, dissolved         32         0.04 <t< td=""><td></td><td>44</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>		44						
Metals         Samples         - <t< td=""><td>Water Level, Field</td><td>57</td><td>422.90</td><td>03/09/2021</td><td>405.03</td><td>04/01/2001</td><td>410.65</td><td>Ft.</td></t<>	Water Level, Field	57	422.90	03/09/2021	405.03	04/01/2001	410.65	Ft.
Metals         Samples         - <t< th=""><th></th><th></th><th></th><th>•</th><th></th><th></th><th></th><th></th></t<>				•				
Aluminum, dissolved         32         1.40         09/15/2010         0.05         06/23/1994         0.61         mg/l           Arsenic, dissolved         32         0.005         08/22/1990         0.001         09/15/1992         0.0027         mg/l           Barium, dissolved         31         6.65         09/15/2010         0.08         09/15/1992         4.03         mg/l           Beryllium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Boron, dissolved         63         8.70         03/09/2020         0.03         02/26/1991         3.17         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Calcium, dissolved         32         0.20         11/02/2015         0.01         06/23/1994         U         mg/l           Copper, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Lead, dissolved         32         1.82         07/31/1991         0.04         06/23/1994         U         mg/l           Magnesium, dissolved         32         0.07 <td< th=""><th></th><th></th><th>High</th><th>Date</th><th>Low</th><th>Date</th><th>Average</th><th>Units</th></td<>			High	Date	Low	Date	Average	Units
Arsenic, dissolved320.00508/22/19900.00109/15/19920.0027mg/lBarium, dissolved316.6509/15/20100.0809/15/19924.03mg/lBeryllium, dissolved32U08/22/1990U06/30/1995Umg/lBoron, dissolved638.7003/09/20200.0302/26/19913.17mg/lCadmium, dissolved32U08/22/1990U06/30/1995Umg/lCalcium, dissolved6344.0006/14/20081.0005/28/19913.47mg/lChromium, dissolved320.2011/02/20150.0106/23/1994Umg/lCopper, dissolved320.3103/09/20210.1007/29/2009Umg/lIron, dissolved321.8207/31/19910.0406/23/1994Umg/lLithium, dissolved320.0407/31/19910.0206/23/1994Umg/lMagnesium, dissolved320.0705/26/19990.0106/63/1994Umg/lMagnese, dissolved320.0705/26/19990.0106/63/1994Umg/lMagnese, dissolved320.0206/23/1994U0.04mg/lMagnese, dissolved320.0206/23/1994Umg/lMolybdenum, dissolved320.0206/23/1994U08/22/1990UMolybdenum, dissolved320.0206/30/20093.00 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>								
Barium, dissolved         31         6.65         09/15/2010         0.08         09/15/1992         4.03         mg/l           Beryllium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Boron, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Cadmium, dissolved         63         44.00         06/14/2008         1.00         05/28/1991         3.47         mg/l           Chromium, dissolved         32         0.20         11/02/2015         0.01         06/23/1994         U         mg/l           Copper, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Lead, dissolved         32         0.04         07/31/1991         0.02         06/23/1994         U         mg/l           Lithium, dissolved         32         0.07         05/26/1999         0.01         06/23/1994         U         mg/l           Magnesium, dissolved         32         0.07         05/26/1999 <td>Aluminum dissolved</td> <td>00</td> <td></td> <td>00/15/2010</td> <td>0.05</td> <td></td> <td>0.61</td> <td>mg/l</td>	Aluminum dissolved	00		00/15/2010	0.05		0.61	mg/l
Beryllium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Boron, dissolved         63         8.70         03/09/2020         0.03         02/26/1991         3.17         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Calcium, dissolved         63         44.00         06/14/2008         1.00         05/28/1991         3.47         mg/l           Chromium, dissolved         32         0.20         11/02/2015         0.01         06/23/1994         U         mg/l           Copper, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Lead, dissolved         32         0.04         07/31/1991         0.04         06/23/1994         U         mg/l           Lead, dissolved         32         4.10         03/09/2020         0.32         09/15/1992         2.18         mg/l           Magnesium, dissolved         32         0.07         05/26/1999         0.01         06/23/1994         U         mg/l           Mercury, dissolved         32         0.07         05/26/1				09/13/2010				
Beryllium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Boron, dissolved         63         8.70         03/09/2020         0.03         02/26/1991         3.17         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Calcium, dissolved         63         44.00         06/14/2008         1.00         05/28/1991         3.47         mg/l           Chromium, dissolved         32         0.20         11/02/2015         0.01         06/23/1994         U         mg/l           Copper, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Lead, dissolved         32         1.82         07/31/1991         0.04         06/23/1994         U         mg/l           Lithium, dissolved         32         4.10         03/09/2020         0.32         09/15/1992         2.18         mg/l           Magnesium, dissolved         32         0.07         05/26/1999         0.01         06/30/1994         U         mg/l           Molybdenum, dissolved         32         0.07         0						09/15/1992	0.0027	
Boron, dissolved         63         8.70         03/09/2020         0.03         02/26/1991         3.17         mg/l           Cadmium, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Calcium, dissolved         63         44.00         06/14/2008         1.00         05/28/1991         3.47         mg/l           Chromium, dissolved         32         0.20         11/02/2015         0.01         06/23/1994         U         mg/l           Copper, dissolved         32         0.31         03/09/2021         0.10         07/29/2009         U         mg/l           Iron, dissolved         32         1.82         07/31/1991         0.04         06/23/1994         U         mg/l           Lead, dissolved         32         0.04         07/31/1991         0.02         06/23/1994         U         mg/l           Magnesium, dissolved         32         0.04         03/09/2020         0.32         09/15/1992         2.18         mg/l           Magnesium, dissolved         63         10.00         12/30/1996         1.00         06/16/1992         4.58         mg/l           Magnesium, dissolved         32         0.07	Arsenic, dissolved	32	0.005	08/22/1990	0.001			mg/l
Cadmium, dissolved32U08/22/1990U06/30/1995Umg/lCalcium, dissolved6344.0006/14/20081.0005/28/19913.47mg/lChromium, dissolved320.2011/02/20150.0106/23/1994Umg/lCopper, dissolved320.3103/09/20210.1007/29/2009Umg/lIron, dissolved321.8207/31/19910.0406/23/1994Umg/lLead, dissolved320.0407/31/19910.0206/23/1994Umg/lLithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved320.0705/26/19990.0106/16/19924.58mg/lMagnese, dissolved320.0705/26/19990.0106/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lMolybdenum, dissolved320.0206/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/30/20093.0008/30/19909.29mg/lSelenium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSodium, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStront	Arsenic, dissolved Barium, dissolved	32 31	0.005 6.65	08/22/1990 09/15/2010	0.001 0.08	09/15/1992	4.03	mg/l mg/l
Calcium, dissolved6344.0006/14/20081.0005/28/19913.47mg/lChromium, dissolved320.2011/02/20150.0106/23/1994Umg/lCopper, dissolved320.3103/09/20210.1007/29/2009Umg/lIron, dissolved321.8207/31/19910.0406/23/1994Umg/lLead, dissolved320.0407/31/19910.0206/23/1994Umg/lLithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/1994Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lMolybdenum, dissolved320.0206/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/30/20093.0008/30/19909.29mg/lSelenium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSodium, dissolved6334.0011/20/20011.5002/26/199117.29mg/lStrontium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/l </td <td>Arsenic, dissolved Barium, dissolved Beryllium, dissolved</td> <td>32 31 32</td> <td>0.005 6.65 U</td> <td>08/22/1990 09/15/2010 08/22/1990</td> <td>0.001 0.08 U</td> <td>09/15/1992 06/30/1995</td> <td>4.03 U</td> <td>mg/l mg/l mg/l</td>	Arsenic, dissolved Barium, dissolved Beryllium, dissolved	32 31 32	0.005 6.65 U	08/22/1990 09/15/2010 08/22/1990	0.001 0.08 U	09/15/1992 06/30/1995	4.03 U	mg/l mg/l mg/l
Chromium, dissolved320.2011/02/20150.0106/23/1994Umg/lCopper, dissolved320.3103/09/20210.1007/29/2009Umg/lIron, dissolved321.8207/31/19910.0406/23/1994Umg/lLead, dissolved320.0407/31/19910.0206/23/1994Umg/lLithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved320.0006/23/1994U08/22/1990Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSelenium, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l<	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved	32 31 32 63	0.005 6.65 U 8.70	08/22/1990 09/15/2010 08/22/1990 03/09/2020	0.001 0.08 U 0.03	09/15/1992 06/30/1995 02/26/1991	4.03 U 3.17	mg/l mg/l mg/l mg/l
Copper, dissolved320.3103/09/20210.1007/29/2009Umg/lIron, dissolved321.8207/31/19910.0406/23/1994Umg/lLead, dissolved320.0407/31/19910.0206/23/1994Umg/lLithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved32U08/22/1990U06/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/30/20093.0008/30/19909.29mg/lSelenium, dissolved320.00207/31/19910.00108/30/19900.0015mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved632.5803/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l <td>Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved</td> <td>32 31 32 63 32</td> <td>0.005 6.65 U 8.70 U</td> <td>08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990</td> <td>0.001 0.08 U 0.03 U</td> <td>09/15/1992 06/30/1995 02/26/1991 06/30/1995</td> <td>4.03 U 3.17 U</td> <td>mg/l mg/l mg/l mg/l</td>	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved	32 31 32 63 32	0.005 6.65 U 8.70 U	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990	0.001 0.08 U 0.03 U	09/15/1992 06/30/1995 02/26/1991 06/30/1995	4.03 U 3.17 U	mg/l mg/l mg/l mg/l
Iron, dissolved321.8207/31/19910.0406/23/1994Umg/lLead, dissolved320.0407/31/19910.0206/23/1994Umg/lLithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved32U08/22/1990U06/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved320.0206/30/20093.0008/30/19909.29mg/lSelenium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved	32 31 32 63 32 63 63	0.005 6.65 U 8.70 U 44.00	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008	0.001 0.08 U 0.03 U 1.00	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991	4.03 U 3.17 U 3.47	mg/l mg/l mg/l mg/l mg/l
Lead, dissolved320.0407/31/19910.0206/23/1994Umg/lLithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved32U08/22/1990U06/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved320.0206/30/20093.0008/30/19909.29mg/lSelenium, dissolved6326.0006/30/20093.0008/30/19900.0015mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved	32 31 32 63 32 63 63 32 32	0.005 6.65 U 8.70 U 44.00 0.20	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015	0.001 0.08 U 0.03 U 1.00 0.01	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994	4.03 U 3.17 U 3.47 U	mg/l mg/l mg/l mg/l mg/l mg/l
Lithium, dissolved324.1003/09/20200.3209/15/19922.18mg/lMagnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved32U08/22/1990U06/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved320.0206/30/20093.0008/30/19909.29mg/lSelenium, dissolved6326.0006/30/20093.0008/30/19900.0015mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved	32 31 32 63 32 63 63 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31	08/22/1990 09/15/2010 08/22/1990 08/22/1990 08/22/1990 06/14/2008 11/02/2015 03/09/2021	0.001 0.08 U 0.03 U 1.00 0.01 0.10	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009	4.03 U 3.17 U 3.47 U U U	mg/l mg/l mg/l mg/l mg/l mg/l
Magnesium, dissolved6310.0012/30/19961.0006/16/19924.58mg/lManganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved32U08/22/1990U06/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSelenium, dissolved320.00207/31/19910.00108/30/19900.0015mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved	32 31 32 63 32 63 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82	08/22/1990 09/15/2010 08/22/1990 08/22/1990 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991	0.001 0.08 U 0.03 U 1.00 0.01 0.10 0.04	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009 06/23/1994	4.03 U 3.17 U 3.47 U U U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Manganese, dissolved320.0705/26/19990.0106/23/19940.04mg/lMercury, dissolved32U08/22/1990U06/30/1995Umg/lMolybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSelenium, dissolved320.00207/31/19910.00108/30/19900.0015mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved	32 31 32 63 32 63 32 32 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04	08/22/1990 09/15/2010 08/22/1990 08/22/1990 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991	0.001 0.08 U 0.03 U 1.00 0.01 0.10 0.04 0.02	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994	4.03 U 3.17 U 3.47 U U U U U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Mercury, dissolved         32         U         08/22/1990         U         06/30/1995         U         mg/l           Molybdenum, dissolved         32         0.10         06/23/1994         U         08/22/1990         U         mg/l           Nickel, dissolved         32         0.02         06/23/1994         U         08/22/1990         U         mg/l           Potassium, dissolved         32         0.02         06/30/2009         3.00         08/30/1990         9.29         mg/l           Selenium, dissolved         32         0.002         07/31/1991         0.001         08/30/1990         0.0015         mg/l           Silica, dissolved         63         34.00         11/20/2001         1.50         02/26/1991         17.29         mg/l           Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved	32 31 32 63 32 63 32 32 32 32 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10	08/22/1990 09/15/2010 08/22/1990 08/22/1990 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 03/09/2020	0.001 0.08 U 0.03 U 1.00 0.01 0.10 0.04 0.02 0.32	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 09/15/1992	4.03 U 3.17 U 3.47 U U U U 2.18	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Molybdenum, dissolved320.1006/23/1994U08/22/1990Umg/lNickel, dissolved320.0206/23/1994U08/22/1990Umg/lPotassium, dissolved6326.0006/30/20093.0008/30/19909.29mg/lSelenium, dissolved320.00207/31/19910.00108/30/19900.0015mg/lSilica, dissolved6334.0011/20/20011.5002/26/199117.29mg/lSodium, dissolved639,28003/09/202071005/28/19914,218mg/lStrontium, dissolved632.5803/26/19970.1806/16/19921.23mg/lVanadium, dissolved320.0605/26/2004U08/22/1990Umg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	32 31 32 63 32 63 32 32 32 32 32 32 32 32 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00	08/22/1990 09/15/2010 08/22/1990 08/22/1990 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996	0.001 0.08 U 1.00 0.01 0.10 0.04 0.02 0.32 1.00	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 09/15/1992 06/16/1992	4.03 U 3.17 U 3.47 U U U U 2.18 4.58	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Nickel, dissolved         32         0.02         06/23/1994         U         08/22/1990         U         mg/l           Potassium, dissolved         63         26.00         06/30/2009         3.00         08/30/1990         9.29         mg/l           Selenium, dissolved         32         0.002         07/31/1991         0.001         08/30/1990         0.0015         mg/l           Silica, dissolved         63         34.00         11/20/2001         1.50         02/26/1991         17.29         mg/l           Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved	32 31 32 63 32 63 32 32 32 32 32 32 32 32 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996 05/26/1999	0.001 0.08 U 0.03 U 1.00 0.01 0.04 0.02 0.32 1.00 0.01	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 09/15/1992 06/16/1992 06/23/1994	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Potassium, dissolved         63         26.00         06/30/2009         3.00         08/30/1990         9.29         mg/l           Selenium, dissolved         32         0.002         07/31/1991         0.001         08/30/1990         0.0015         mg/l           Silica, dissolved         63         34.00         11/20/2001         1.50         02/26/1991         17.29         mg/l           Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved	32 31 32 63 32 63 32 32 32 32 32 32 32 63 32 32 32 32 32 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U	08/22/1990 09/15/2010 08/22/1990 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 06/15/1992 06/16/1992 06/23/1994 06/30/1995	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U	mg/l
Selenium, dissolved         32         0.002         07/31/1991         0.001         08/30/1990         0.0015         mg/l           Silica, dissolved         63         34.00         11/20/2001         1.50         02/26/1991         17.29         mg/l           Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved	32 31 32 63 32 63 32 32 32 32 32 32 63 32 63 32 32 32 32 32 32 32 32 32 32 32 32 32	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/16/1992 06/23/1994 06/23/1994 06/30/1995 08/22/1990	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Silica, dissolved         63         34.00         11/20/2001         1.50         02/26/1991         17.29         mg/l           Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved	32 31 32 63 32 63 32 32 32 32 63 32 63 32 32 32 32 32 32 32 32 32 3	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/16/1992 06/16/1992 06/23/1994 06/30/1995 08/22/1990	4.03 U 3.17 U 3.47 U U U U U 2.18 4.58 0.04 U U U U	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Silica, dissolved         63         34.00         11/20/2001         1.50         02/26/1991         17.29         mg/l           Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved	32 31 32 63 32 63 32 32 32 32 63 32 32 32 32 32 32 32 32 32 3	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02 26.00	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994 06/23/1994	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U 3.00	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009 06/23/1994 06/23/1994 06/23/1994 06/16/1992 06/16/1992 06/23/1994 06/30/1995 08/22/1990 08/22/1990	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U U U 9.29	mg/l           mg/l
Sodium, dissolved         63         9,280         03/09/2020         710         05/28/1991         4,218         mg/l           Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Potassium, dissolved	32 31 32 63 32 63 32 32 32 32 63 32 32 32 63 32 32 32 32 32 32 32 32 32 3	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02 26.00 0.002	08/22/1990 09/15/2010 08/22/1990 03/09/2020 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994 06/23/1994 06/30/2009 07/31/1991	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U 3.00	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009 06/23/1994 06/23/1994 06/23/1994 06/16/1992 06/16/1992 06/23/1994 06/30/1995 08/22/1990 08/22/1990	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U U U U 9.29 0.0015	mg/l           mg/l
Strontium, dissolved         63         2.58         03/26/1997         0.18         06/16/1992         1.23         mg/l           Vanadium, dissolved         32         0.06         05/26/2004         U         08/22/1990         U         mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Mercury, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved	32 31 32 63 32 63 32 32 32 32 63 32 32 32 63 32 32 32 32 32 32 32 32 32 3	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02 26.00 0.002	08/22/1990 09/15/2010 08/22/1990 03/09/2020 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994 06/23/1994 06/30/2009 07/31/1991	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U 3.00 0.001	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/30/1995 08/22/1990 08/22/1990 08/30/1990	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U U U U 9.29 0.0015	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
Vanadium, dissolved 32 0.06 05/26/2004 U 08/22/1990 U mg/l	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	32 31 32 63 32 63 32 32 32 63 32 32 63 32 32 63 32 32 63 32 63 32 63 32 63 32 63 63 63 63 63 63 63 63 63 63	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02 26.00 0.002 34.00	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994 06/23/1994 06/30/2009 07/31/1991 11/20/2001	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U 3.00 0.001 1.50	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/30/1992 06/23/1994 06/30/1995 08/22/1990 08/30/1990 08/30/1990	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U U U 9.29 0.0015 17.29	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Magnese, dissolved Marcury, dissolved Molybdenum, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved	32         31         32         63         32         63         63         63          63          63          63	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02 26.00 0.002 34.00 9,280	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994 06/23/1994 06/23/1994 06/30/2009 07/31/1991 11/20/2001 03/09/2020	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U 3.00 0.001 1.50 710	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 07/29/2009 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/30/1992 06/23/1994 06/30/1995 08/22/1990 08/22/1990 08/30/1990 08/30/1991	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U U U 9.29 0.0015 17.29 4,218	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l
	Arsenic, dissolved Barium, dissolved Beryllium, dissolved Boron, dissolved Cadmium, dissolved Calcium, dissolved Chromium, dissolved Copper, dissolved Iron, dissolved Lead, dissolved Lithium, dissolved Magnesium, dissolved Manganese, dissolved Manganese, dissolved Manganese, dissolved Mercury, dissolved Nickel, dissolved Selenium, dissolved Silica, dissolved Silica, dissolved Sodium, dissolved	32         31         32         63         32         63         63         63         63          63          63	0.005 6.65 U 8.70 U 44.00 0.20 0.31 1.82 0.04 4.10 10.00 0.07 U 0.10 0.02 26.00 0.002 34.00 9,280 2.58	08/22/1990 09/15/2010 08/22/1990 03/09/2020 08/22/1990 06/14/2008 11/02/2015 03/09/2021 07/31/1991 07/31/1991 03/09/2020 12/30/1996 05/26/1999 08/22/1990 06/23/1994 06/23/1994 06/30/2009 07/31/1991 11/20/2001 03/09/2020 03/26/1997	0.001 0.08 U 1.00 0.01 0.01 0.04 0.02 0.32 1.00 0.01 U U U 3.00 0.001 1.50 710 0.18	09/15/1992 06/30/1995 02/26/1991 06/30/1995 05/28/1991 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/23/1994 06/30/1992 08/22/1990 08/22/1990 08/22/1990 08/30/1990 08/30/1990 02/26/1991 05/28/1991 06/16/1992	4.03 U 3.17 U 3.47 U U U U 2.18 4.58 0.04 U U U 9.29 0.0015 17.29 4,218 1.23	mg/l mg/l mg/l mg/l mg/l mg/l mg/l mg/l

#### Table 44: IRI-7 Annual Dissolution Surface Aquifer

DAUB & ASSOCIATES, INC. 2013# Jac De Contraction



For Remote Wells (all levels taken from top of casing)										
Well / Ground Level (ft)			Depth to W	ater Level	ft.					
weil / Ground Level (it)	2016	2017	2018	2019	2020	2021				
IRI-8 / 6573.6 (P&A 2021)	318.08	317.80	320.79	321.40	322.10	322.90				
IRI-9 / 6666.3 (P&A 2021)	469.68	469.50	470.61	471.40	469.60	471.50				
IRI-10 / 6440.7	135.54	P&A	P&A	P&A	P&A	P&A				
IRI-11 / 6613.6	466.95	466.90	467.60	468.00	468.30	468.80				
*MWU-2 / 6441.0	195.00	195.40	195.38	197.50	195.90	196.00				
*MWA-2 / 6441.0	199.80	199.60	199.60	199.40	199.40	199.60				
*MWB-2 / 6441.0	253.05	254.80	256.13	255.40	256.00	257.20				
*MWD-1 / 6467.0	328.83	329.30	329.60	329.50	329.90	329.70				
*MWD-2 / 6641.0	247.82	253.50	254.54	254.30	254.80	254.70				
TH75-6A	298.16	298.10	297.21	296.40	298.56	298.65				
TH75-6B	294.82	295.50	295.28	294.30	295.93	295.94				
TH75-11A	414.94	413.70	413.80	413.80	413.03	411.27				
TH75-11B	497.28	494.80	495.00	494.80	495.55	496.02				
EX-2 (WL collected quarterly) (P&A 2021)	471.75	472.80	476.15	479.70	481.70	485.22				
Note: EX-2, II	RI-8, & IRI-9	were P&A	ied Summe	er of 2021						

#### Table 45: Summary of 2021 Annual Remote Water Levels



2021 Project Status Report & Annual Plan of Development

### 2021

# Appendix B Potentiometric Surface Maps (Confidential)

DAUB & ASSOCIATES, INC. TO THE AND THE

January 2022



DAUB & ASSOCIATES, INC.



January 2022



DAUB & ASSOCIATES, INC.





2021 Project Status Report & Annual Plan of Development

# Appendix C

## 2021 Vegetation Monitoring Reclamation Status Report

# Prepared

### By

# **Rusty Roberts**

DAUB & ASSOCIATES, INC. 

January 2022

#### Reclamation Status Report 2021 Vegetation Monitoring Results for Reclaimed Sites

Evaluating Status of Current Plant Communities on Nine Reclaimed Sites in meeting Criteria for Successful Reclamation

> Prepared for: Natural Soda Rifle, Colorado

Prepared by: Rusty Roberts Meeker, Colorado

December 2021

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#### Introduction

The Bureau of Land Management (BLM) and the State of Colorado require reclaimed lands to be revegetated in a manner that establishes a diverse, effective, and long-lasting vegetation cover that is equal or nearly so to the natural vegetation of the surrounding areas. Natural Soda's approved mine plan requires periodic monitoring to evaluate the success of revegetation efforts.

Vegetation cover, species composition, species density and ground cover data were collected from undisturbed reference area sites on Natural Soda's lease area near their current mining operations. The data collected from undisturbed areas is used in comparison to the vegetation cover, species composition, species density and ground cover data collected from reclaimed sites to determine if a site has met the criteria for successful reclamation.

Data was collected from eight reclaimed pad sites in final reclamation status which included one plugged and abandoned production well site and seven corehole sites. Data was also collected from one corehole access route. Baseline data was collected from five native rangeland reference area sites on Natural Soda's lease area and near the sites evaluated. Table 1 lists the nine sites in final reclamation status for which data was collected in 2021.

#### **Criteria for Successful Reclamation of Disturbed Areas**

The approved criteria for successful reclamation must reflect a plant community of at least five desirable plant species where no one species may exceed 70 percent relative cover and desired foliar cover, bare ground, and shrub and/or forb density must have 80 percent similarity in relation to the identified desired plant community.

The desired plant community referenced in the criteria refers to an ecological site present at or near the area of disturbance. Two ecological sites occur on the parts of the lease area being actively mined, a pinyon and juniper woodland site and a rolling loam rangeland site. The vegetative values in the criteria are based on the capability of a site in an early seral plant community, which is basically an herbaceous species dominated site with varying amounts of shrub species. The rolling loam rangeland site reflects more of the capability of a site in an early seral plant community, thus, data collected from the five-rolling loam native rangeland reference areas were used to evaluate the success of the plant community on each reclaimed site in achieving the reclamation criteria.

#### Vegetation Sampling Methods Utilized to Measure Criteria for Successful Reclamation

Data was collected based upon recommendations in White River Field Office's Surface Reclamation Plan which require that vegetation cover, composition, and diversity data be gathered using quantitative methods to measure the six Core Terrestrial Indicators and Methods in BLM Technical Note 440. BLM approved sampling methods are found in Monitoring Manual for Grassland, Shrubland, and Savanna Ecosystems, Volume I and II: Quick Start.

The six core terrestrial indicators include:

- (1) <u>Bare Ground</u>: The amount of bare ground is accepted as one of the most sensitive indicators of resource condition in rangelands. A large percentage of bare ground can be an indicator of high erosion potential, low forage production, poor wildlife habitat, and increased risk of invasion by nonnative plant species.
- (2) <u>Vegetation Composition</u>: Vegetation composition data, including the cover of groups of species are indicators generated from the same data, and when used together, are sensitive to most changes and are useful when determining the status of key species in a plant community.
- (3) <u>Nonnative Invasive Plant Species</u>: The presence and cover of nonnative species is acquired as a component of vegetation composition. Nonnative invasive species can have the ability to significantly alter sustainability and site resilience.
- (4) <u>Plant Species of Management Concern</u>: The presence and cover of plant species of management concern is also acquired as a component of vegetation composition. Plant species of management concern can be sensitive to site disturbance, provide important ecosystem functions, or contribute to biological diversity.
- (5) <u>Vegetation Height</u>: The vertical structure of vegetation which can be used to characterize wildlife habitat and estimate wind erosion potential.
- (6) <u>Proportion of Soil Surface in Large Intercanopy Gaps</u>: Canopy gap intercept measures the proportion of a line covered by large gaps between plant canopies and is an important indicator of the potential for erosion.

Line-point intercept with plot-level species inventory was the vegetation monitoring technique used to measure the core indicators of bare ground, vegetation composition, non-native invasive plant species and plant species of management concern.

Line-point intercept is a rapid, accurate method for quantifying soil cover, including vegetation, litter, rocks and biological crusts. The theory behind this method is that if an infinite number of points are placed in a two-dimensional area, the cover of a plant species can be determined by counting the number of points that hit that species. These measurements are related to wind and water erosion, water infiltration, and the ability of the site to resist and recover from disturbance.

Gap intercept measurements were made along the line-point intercept transect line to provide information about the proportion of the line covered by large gaps between plants. Large gaps between plant canopies are important indicators of increased susceptibility to water erosion and runoff, wind erosion, weed invasion, and wildlife habitat.

A plot-level plant species inventory provides a rapid estimate of species richness. A search area at each site was utilized to record all plant species occurring within the plot. A thorough search of the plot can detect less-frequently occurring species that may not have been recorded in line-point intercept cover measurements.

Shrub and forb densities also a criterion for successful reclamation are not measured by the sampling methods used for the other criteria. Forb and shrub density measurements were taken from one-meter square density quadrants along the same line-point intercept transect line used for the other sampling techniques.

#### Summary of Results for Reclaimed Sites in Achieving Reclamation Goals

Vegetation cover, plant species composition, ground cover and shrub and forb density data were collected from one plugged and abandoned production well pad site in final reclamation status, from seven reclaimed corehole pad sites, from one reclaimed linear site and from five native rangeland reference area sites near the sites evaluated. Data was collected from August 18 thru August 25, 2021. Table 1 lists the sites in final reclamation status for which data was collected in 2021. The location of sites monitored are illustrated on the attached location map.

The drought conditions that have occurred for several years continued during the growing season of 2021. The data collected from the undisturbed native rangeland reference areas resulted in only minimal declines in total cover and composition of desirable species as compared to the values measured in 2020. Foliar cover of native species declined only one percent. The densities of both desirable forbs and shrubs had small increases from the values measured in 2020.

Table 1 - Summary of Results for Reclaimed Sites in Achieving Successful Reclamation Criteria											
	species where n	Criteria for Su desirable plant to one species may cent relative cover	desired folia density must	nation of Disturl r cover, bare gro t have 80 percen red on nearby u	ound, and shrub t similarity in re	elation to the					
	the number of desired plant species present	the relative cover of the desired species with the greatest cover	% similarity of desired foliar cover	% similarity of bare ground	% similarity of shrub density	% similarity of forb density	Criteria				
Site	2021 Data Collected for Sites in Final Reclamation Status										
93-2M	15 species	16.0%	107%	158%	47%	12%	No				
Pad C	28 species	12.7%	105%	146%	121%	56%	Yes				
Pad E	18 species	27.3%	118%	145%	62%	111%	Yes				
Pad G	22 species	22.7%	82%	79%	36%	36%	No				
IRI-3+	22 species	17.3%	103%	152%	67%	52%	No				
IRI-10	22 species	33.3%	95%	108%	100%	71%	Yes				
Pad Q	22 species	14.0%	98%	150%	87%	68%	Yes				
Pad Q access											
route	30 species	30.7%	97%	110%	39%	96%	Yes				
Pad U	13 species	12.0%	61%	97%	56%	33%	No				
	2021	<b>Baseline Data Coll</b>	ected from Five	Native Rangela	nd Reference A	eas					
	27 species	26.4%	57.2	34.8%	1.84	5.98					
Note: val	lues in red are belo	ow the criteria require	ed for successful	reclamation							

Table 1 is a summary of the progress of each site monitored in achieving successful reclamation. The site-specific monitoring results for each site are discussed in detail later.

Most of the reclaimed sites have productive plant communities with good distribution of perennial species across the site. Many of the perennial species that have established on most of the sites originated from the seed mix planted during reclamation. The established plant communities are providing a vegetative cover resilient to drought that has stabilized most of the sites. A few of the sites (corehole pads G and U) are being negatively impacted by herbivores from heavy grazing use and trampling.

#### Vegetation Sampling Methods and Procedures for Reclaimed Sites and Reference Areas

The line-point intercept with plot-level species inventory was the vegetation sampling protocol used on both the reclaimed sites and associated reference areas. The procedure involves random placement of a transect line (measuring tape) as the base for data collection. Values for foliar cover, basal cover, species composition and bare ground were measured at specific points along the line. Gaps in vegetation canopy were measured along the same tape line. Density quadrants were placed adjacent the line at specific points.

A 25-meter tape was used as the baseline transect for collecting data from the 5 rolling loam reference areas and from the 9 reclaimed sites. Data was collected from 1 transect for each of the 5 reference areas. Data was collected from 3 transects for the reclaimed sites.

The following techniques were used to collect the sample data:

- The beginning and ending points of each transect were recorded using a GPS receiver. Azimuths from the 0-meter to the 25-meter point were recorded.
- Photographs were taken at each transect that show vegetation features at the time of sampling.
- Point count data were collected at one half-meter intervals along a 25-meter tape using a thin, straight metal rod (pin flag) for a total of fifty samples taken along each transect.
  - The first plant species in the canopy hit by the drop of a pin flag at each sample point was recorded by species in the "Top Layer". The total of top layer hits was used to determine total foliar cover for the study site and the total foliar cover for each species hit in the top layer.
  - Subsequent plant species encountered at each sample point and vegetative litter hits were recorded in the "Lower Canopy Layers". Vegetative litter was recorded as either unattached herbaceous or woody litter.
  - Species composition based upon total of all plant species encountered in the top layer and the lower layers at each sample point and recorded by species and summarized by plant group.
  - Soil surface hits were recorded as plant species basal intercepts, lichen crust, moss, embedded litter, duff, rock, or bare soil. Bare ground percent was determined by a bare soil hit with no canopy intercepts in the top and lower canopy layers.
- Canopy gaps were recorded directly below the transect tape line. Only perennial plant species were used in the vegetative canopy. Annual species if present were not included as part of the canopy. Gaps larger than 20 centimeters were recorded for the length of each transect. Gaps were totaled into gap sizes (21 to 50; 51 to 100; 101 to 200; >200).

Though the gap data is not used in evaluating reclamation criteria, it was collected as a visualization of perennial species distribution and cover.

- Forb and shrub density data were taken from one-meter square density quadrants alongside the same line-point intercept transect line used for the other sampling techniques. Quadrants were placed at every 5<sup>th</sup> sample point along the transect tape for a total of 10 one-meter density quads for each transect. Only desirable forb and shrub densities are required in the criteria for successful reclamation. The total number of desirable forb and shrub species rooted in each quad were counted and recorded by species and summarized by plant group. Densities for grasses or trees were not collected.
- A plot-level plant species inventory was conducted within a search area at each site. The search area for reclaimed sites was within the original disturbance at the site. In addition to those plant species recorded during sampling, other species not encountered during sampling but were observed in the sample area were recorded for species richness.

#### Vegetation Sampling Results for Nearby Native Rangeland Reference Areas

Vegetation cover, species composition, species density and ground cover data were collected from five rolling loam rangeland sites from August 18 thru August 25, 2021. Transects were established in the five rolling loam sites which represent the site characteristic's common in the project area. The pre-disturbance vegetation for some of the reclaimed sites examined had pinyon and juniper tree cover over all or portion of the site. Several of the sites were along the fringe of the pinyon and juniper community and had soils of both a woodland site and a rangeland site. The vegetative values in the criteria are based on the capability of a site in an early seral plant community, which is basically an herbaceous species dominated site with varying amounts of shrub species. The rolling loam rangeland site reflects more of the capability of a site in an early seral plant community, thus, data collected from the 5-rolling loam rangeland reference areas were used to evaluate the success of the plant community on each reclaimed site in achieving the reclamation criteria.

Values for foliar cover, basal cover, species composition and bare ground were collected from five 25 meter transects for a total of 250 sample points. Values for forb and shrub densities were collected from 50 one-meter square quadrants. Table 2 summarizes the data collected in 2021 from the five reference areas. A comparison to the data collected in 2020 is included in the table.

The unusually dry conditions that occurred during the growing season in 2021 resulted in only minimal declines in total cover and composition of desirable species as compared to the values measured in 2020. Foliar cover of native species measured on the reference sites in 2021 declined only one percent from the values measured in 2020. Foliar cover of perennial grasses declined 1.4 percent, perennial forbs cover declined 45 percent and shrub cover increased 14 percent. The foliar cover of invasive nonnative grasses declined 45 percent.

A 4 percent decline in herbaceous litter cover occurred in 2021. The declines in foliar cover and herbaceous litter cover that occurred in 2021 resulted in a 16 percent increase in bare ground. The canopy gaps between perennial species also an indicator of ground cover, increased 38 percent.

Table 2- Rolling Loam Native Rangeland Reference Area           Vegetation Cover, Species Composition, Species Density & Ground Cover													
					Line-	Point	Canop	y Interce	ept Data <sup>1</sup>			Density	Data <sup>2</sup>
				Number of Species% Foliar Cover% Basal CoverSpeciesCoverCoverComposition				Forb/Shrub Density (#/m <sup>2</sup> )					
Plant (	Froup		2020	2021	202	0 3	2021	2020	2021	2020	2021	2020	2021
Perennial Grasse	es		6	5	41	.0	40.4	6.66	6.8	69.63	71.52	n/a	n/a
Invasive Non-Na	ative Grass	es	1	1	2.3	33	1.6	0.0	0.0	3.27	2.42	n/a	n/a
Desirable Forbs			18	17	4.3	34	2.4	0.33	0.0	9.34	3.64	5.90	5.98
Invasive and No	n-Native F	orbs	2	0	0	0.0	0.0	0.0	0.0	0.0	0.0	n/a	n/a
Shrubs			5	5	12.6	57	14.4	0.33	0.4	17.76	22.42	1.80	1.84
Vegetation Tota	als		33	28	60.3	34	58.8	7.32	7.2	100.0	100.0	7.70	7.82
			Line	-Point I	nterce	pt Soi	il Surfa	ce Cover	Data <sup>3</sup>				
Percent Bare Ground		Bio	tic Crus	Herbaceous		I	Duff		ock				
Cover by	2020	2021	2020	) 202	21 2	2020	2021	2020	2021	2020	2021	2020	2021
Туре	20.0	24 6	0.2	2		20.2	27 (	1 2	0.0	0.0	0.0	0.0	0.0

1 Sum of data from 5 randomly placed transects with 50 sample points collected from each transect. Foliar cover based upon1<sup>st</sup> plant species encountered in the canopy at each sample point. Species composition based upon total of all plant speciesencountered at each sample point.

<sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable forb and shrub densities were recorded based upon reclamation criteria.

<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.

The specific vegetation sampling data collected from the 5 rolling loam rangeland sites are presented in Appendix A. Data in the appendix include (1) vegetation cover, ground cover, species composition, and forb and shrub densities; (2) the scientific and common names of each plant species encountered; (3) GPS coordinate data for the transect start and end points; (4) intercanopy gaps and (5) photographs of each transect.

#### Monitoring Results and Evaluation of Criteria for Sites in Final Reclamation Status

Vegetation cover, species composition, species density and ground cover data were collected from the disturbed areas of 9 sites in final reclamation status. The disturbed sites included one plugged and abandoned production well pad site (93-2M), six reclaimed corehole pad sites (pads C, E, G, IRI-3+, IRI-10, Q and U), and one reclaimed linear site (access route to pad Q). Locations are noted on the attached location map.

Vegetation sampling data collected for the 9 reclaimed sites are presented in the Appendix B through Appendix J.

- Appendix B reclaimed production well pad 93-2M.
- Appendix C reclaimed corehole pad C.
- Appendix D reclaimed corehole pad E.
- Appendix E reclaimed corehole pad G.
- Appendix F reclaimed corehole pads IRI-3, MW-1, PW-1, PW-2.
- Appendix G reclaimed corehole pad IRI-10.
- Appendix H reclaimed corehole pad Q.
- Appendix I reclaimed access route to pad Q.
- Appendix J reclaimed corehole pad U.

Vegetation sampling data in the appendixes include (1) vegetation cover, ground cover, species composition, and forb and shrub densities; (2) the scientific and common names of each plant species encountered; (3) GPS coordinate data for the transect start and end points; (4) intercanopy gaps and (5) photographs of each transect.

#### Well Pad 93-2M

Data was collected for this site on August 25, 2021. Three 25 meter transects were placed in a spoke pattern on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The data collected in 2021 is summarized in Table 3 from the sampling data presented in Appendix Table B1. Each plant species encountered at this site is listed in Table B1. As shown in Table B1 there is a good establishment of the perennial grasses with uniform distribution across much of the site.

	egetation Cover	Table 3 - Re					nd Ca	wor	
	regetation Cover		-Point Can						y Data <sup>2</sup>
Plant Group		Number of Species	% Foliar Cover	% Ba Cov		-	Species Composition		rable /Shrub y (#/m <sup>2</sup> )
Perennial Gras		7	54.7	1	0.7	8	7.0		n/a
Invasive Non-I	Native Grasses	1	0.7		0.0		3.0		n/a
Desirable Forb	-	4	0.0		0.0		0.0		0.70
	on-Native Forbs	0	0.0		0.0		0.0		n/a
Shrubs		4	6.7		0.0				
Vegetation To	tals	16.0	62.1	10.7 100.0		0.0	1.56		
	Line	e-Point Interd	cept Soil Su	rface C	Cover	· Data <sup>3</sup>			
Percent Cover by	Bare Ground	Biotic Crus	Herbao t Litte		Wo	ody Litter	Ι	Duff	Rock
Туре	14.7	0.	.0	63.3		4.0		0.0	0.0

The foliar cover of desirable species on the site was 7 percent greater than that measured on the reference areas. The cover of perennial grasses was 35 percent greater; no cover of desirable forbs was measured, and shrub cover was only 46 percent of that on the reference areas. The species composition of desirable species was equal to that on the reference areas. The composition of perennial grasses was 22 percent greater, and shrubs was 45 percent lower.

The density of desirable forbs on the site was only 12 percent of that on reference areas. The density of shrubs on the site was only 47 percent of that on reference areas.

The amount of bare ground on the reference areas was 58 percent greater than that measured on this site. The amount of herbaceous litter on this site was 41 percent greater than that on the reference areas. The canopy gaps between perennial species were 64 percent larger on the reference areas than measured on this site.

The site has a productive established plant community which has good representation of the perennial species used in the seed mix with good distribution of those species across the site. The plant community has stabilized the site.

Table 4 is a comparison of the data collected for reclaimed well pad 93-2M with that of the rolling loam rangeland reference areas. Only the data required to access the success of achieving successful reclamation is used in Table 4.

Table 4 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas											
Site	# desired plant species	% desired foliar cover	% bare ground	shrub density (#/m <sup>2</sup> )	forb density (#/m <sup>2</sup> )						
Well Pad 93-2M	15 species	61.4	14.7	0.86	0.70						
Reference Area <sup>1</sup>	27 species	57.2	34.8	1.84	5.98						
<sup>1</sup> The average of five n reclamation criteria.	ative rangelands refe	rence areas were	e used as the bas	se for evaluating su	ccess of the						

#### **Evaluation of the reclamation efforts of the disturbance on Well Pad 93-2M:**

- There are 15 desirable plant species established on the site (7 perennial grasses, 4 desirable forbs, and 4 shrubs) meeting the requirement of at least five plant species.
- Western wheatgrass (*Pascopyrum smithii*) was the desired species with the greatest relative cover at 16.0 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 107 percent of that on the native rangeland reference area exceeding the requirement of 80 percent similarity.
- The amount of unprotected bare ground on the site was 58 percent less than on the native rangeland reference area which equates to 158 percent similarity, exceeding the required 80 percent similarity.
- The density of desirable forbs and shrubs on the site in comparison with the native rangeland reference areas was 12 percent and 47 percent, respectively. Neither forb density nor shrub density have met the requirement of 80 percent similarity.

The plant community established on this site are the perennial grasses used in the seed mix. The perennial grasses are well established providing a resilient plant community that has been difficult for desirable forbs and shrubs to compete and increase in cover and density. The plant community on this site has adequately stabilized the site. The plant community does meet the

criteria for species diversity, desired foliar cover, and the amount of bare ground. The site does not meet the criteria for the densities of desirable forbs or shrubs.

#### **Corehole Pad C**

Data was collected for this site on August 18, 2021. Three 25 meter transects were placed in a spoke pattern on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The data collected in 2021 is summarized in Table 5 from the sampling data presented in Appendix Table C1. Each plant species encountered at this site is listed in Table C1.

Table 5 - Reference Area for Reclaimed Corehole Pad C Vegetation Cover, Species Composition, Species Density & Ground Cover										
			-Point Can	•				Density Data <sup>2</sup>		
		Number						Desi	irable	
		of	% Foliar	% Ba	asal	Species	;	Forb	/Shrub	
Plant	Group	Species	Cover	Cov	er	Compositi	ion	Densit	$y (\#/m^2)$	
Perennial Gras	ses	10	40.2		8.7	61	.68		n/a	
Invasive Non-N	Native Grasses	1	2.7		0.0	5	.61		n/a	
Desirable Forb	s	12	4.0		0.0	6	5.54		3.33	
Invasive and N	on-Native Forbs	1	1.3		0.0	1	.87		n/a	
Shrubs		6	15.9		0.7	24	.30		2.34	
Vegetation To	tals	30	64.1		9.4	100	.00		5.67	
	Line	e-Point Intero	cept Soil Su	rface (	Cover	Data <sup>3</sup>				
Percent			Herbao	ceous						
Cover by	<b>Bare Ground</b>	<b>Biotic Crus</b>	t Litt	er	Wo	ody Litter	]	Duff	Rock	
Туре	18.7	0.	.0	56.0		6.7		0.0	0.7	
<sup>1</sup> Sum of data f	rom 3 randomly p	placed 25 meter	er transects v	with 50	samp	ole points co	llecte	ed from e	ach	
transect. Foliar	cover based upor	n 1 <sup>st</sup> plant spec	cies encount	ered in	the ca	anopy at eac	h san	nple poin	t.	
Species compo	sition based upon	total of all pla	ant species e	encount	ered	at each samp	ole po	oint.		
<sup>2</sup> Sum of densit	ty data collected f	rom ten 1-met	ter square qu	adrants	s alon	ig each trans	ect. (	Only desi	rable	
	densities were rec									
<sup>3</sup> Percentages a	re not cumulative	with vegetati	on totals, rat	ther a n	neasu	re by layer o	of gro	ound cove	er from	
the top layer th	ru the lower layer	s to the soil su	urface. Valu	es for b	are g	round have 1	no ve	getative,	litter or	
rock cover abo	ve the soil surface	2.								

The foliar cover of desirable species on the site was 5 percent greater of that measured on the reference areas. The cover of perennial grasses was nearly equal, desirable forbs cover was 40 percent greater, and shrub cover was 10 percent greater than that on the reference areas. The species composition of desirable species was 95 percent of that on the reference areas. The composition of perennial grasses was 14 percent lower, desirable forbs was 44 percent greater, and shrubs was 8 percent greater than that on the reference areas.

The density of desirable forbs on the site was 44 percent of that on reference areas. The density of shrubs on the site was 21 percent greater than that on reference areas.

The amount of bare ground on the reference areas was 46 percent greater than that measured on this site. The amount of herbaceous litter on this site was 33 percent greater than that on the reference areas. The canopy gaps between perennial species measured on the site were 7 percent larger than that measured on the reference areas.

Table 6 is a comparison of the data collected for reclaimed Pad C with that of the rolling loam rangeland reference areas. Only the data required to access the success of achieving successful reclamation is used in Table 6.

Table 6 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas										
Site	# desired plant species	% desired foliar cover	% bare ground	shrub density (#/m <sup>2</sup> )	forb density (#/m <sup>2</sup> )					
Corehole Pad C	28 species	60.1	18.7	2.34	3.33					
Reference Area <sup>1</sup>	27 species	57.2	34.8	1.84	5.98					
$^{1}$ The average of five n	ative rangelands refe	rence areas were	e used as the ba	se for evaluating su	ccess of the					

<sup>1</sup> The average of five native rangelands reference areas were used as the base for evaluating success of the reclamation criteria.

#### **Evaluation of the reclamation efforts of the disturbance on Corehole Pad C:**

- There are 28 desirable plant species established on the site (10 perennial grasses, 12 desirable forbs, and 6 shrubs) meeting the requirement of at least five plant species.
- Needle & thread needlegrass (*Hesperostipa comata*) was the desired species with the greatest relative cover at 12.7 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 105 percent of that on the native rangeland reference areas exceeding the requirement of 80 percent similarity.
- The amount of unprotected bare ground on the site was 46 percent less than that on the native rangeland reference areas which equates to 146 percent similarity, exceeding the required 80 percent similarity.
- The density of forbs and shrubs on the site in comparison with the native rangeland reference areas was 44 percent and 121 percent, respectively. The criteria only require either forb density or shrub density meet the requirement of 80 percent similarity. Shrub density has met the required criteria.

The plant community established on this site has a good representation of the perennial species used in the seed mix. The perennial species are well established providing a resilient plant community that meets the species diversity, desired foliar cover, shrub density and bare ground criteria necessary for successful reclamation of the disturbance at this site.

#### **Corehole Pad E**

Data was collected for this site on August 25, 2021. Three 25 meter transects were placed in a spoke pattern on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of

30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The data collected in 2021 is summarized in Table 7 from the sampling data presented in Appendix Table D1. Each plant species encountered at this site is listed in Table D1.

V	Table 7 - Reference Area for Reclaimed Corehole Pad E           Vegetation Cover, Species Composition, Species Density & Ground Cover										
	8		-Point Can						y Data <sup>2</sup>		
		Number						Des	irable		
		of	% Foliar	% Ba	sal	Species	5	Forb	/Shrub		
Plant	Group	Species	Cover	Cove	er	Composit	ion	Densit	y (#/m <sup>2</sup> )		
Perennial Gras	ses	7	52.6	1	2.7	76	6.64		n/a		
Invasive Non-N	Native Grasses	0	0.0		0.0		0.0		n/a		
Desirable Forb	s	5	6.7		1.3	13	.08		6.73		
Invasive and N	on-Native Forbs	1	0.0		0.0		0.0		n/a		
Shrubs		5	8.1		0.0	10	.28		1.13		
Vegetation To	tals	18	67.4	1	4.0	10	0.0		16.68		
	Line	e-Point Intero	cept Soil Su	rface C	over	Data <sup>3</sup>					
Percent			Herbao	ceous							
Cover by	<b>Bare Ground</b>	<b>Biotic Crus</b>	t Litt	er	Wo	ody Litter	] ]	Duff	Rock		
Туре	19.3	0.	.0	43.3		2.7		0.0	2.0		
<sup>1</sup> Sum of data f	rom 3 randomly p	placed 25 meter	er transects v	with 50	samp	ole points co	llecte	ed from e	ach		
transect. Foliar	cover based upor	n 1 <sup>st</sup> plant spec	cies encount	ered in t	the c	anopy at eac	h san	nple poin	t.		
Species compo	sition based upon	total of all pla	ant species e	encounte	ered a	at each samp	ole po	oint.			
Species composition based upon total of all plant species encountered at each sample point. <sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable											
forb and shrub densities were recorded based upon reclamation criteria.											
	re not cumulative										
the top layer th	ru the lower layer	s to the soil su	urface. Valu	es for b	are g	round have	no ve	getative,	litter or		
rock cover abo	ve the soil surface	<b>.</b>									

The foliar cover of desirable species on the site was 5 percent greater than that measured on the reference areas. The cover of perennial grasses was 30 percent greater, desirable forbs cover was 2.8 times greater and shrub cover was only 44 percent of that on the reference areas. The species composition of desirable species was 2.5 percent greater than that measured on the reference areas. The composition of perennial grasses was 7 percent greater, desirable forbs was 2.5 times greater, and shrubs was 46 percent lower.

The density of desirable forbs on the site was 11 percent greater than that on reference areas. The density of shrubs on the site was 62 percent of that on the reference areas.

The amount of bare ground on the reference areas was 45 percent greater than that measured on this site. The amount of herbaceous litter on this site was 13 percent greater than that on the reference areas. The canopy gaps between perennial species measured on the site were 33 percent smaller than that measured on the reference areas.

Table 8 is a comparison of the data collected for reclaimed Pad E with that of the rolling loam rangeland reference areas. Only the data required to access the success of achieving successful reclamation is shown in Table 8.

Table 8 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas											
Site	# desired plant species										
Corehole Pad E	18 species	67.4	19.3	1.13	6.73						
Reference Area <sup>1</sup> 27 species         57.2         34.8         1.84         5.98											
<sup>1</sup> The average of five 1	<sup>1</sup> The average of five native rangelands reference areas were used as the base for evaluating success of the										

reclamation criteria.

#### **Evaluation of the reclamation efforts of the disturbance on Corehole Pad E:**

- There are 18 desirable plant species established on the site (8 perennial grasses, 5 desirable forbs, and 5 shrubs) meeting the requirement of at least five plant species.
- Slender wheatgrass (*Elymus trachycaulus*) was the desired species with the greatest relative cover at 27.3 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 18 percent greater than on the native rangeland reference areas which equates to 118 percent similarity, exceeding the requirement of 80 percent similarity.
- The amount of unprotected bare ground on the site was 45 percent less than on the native rangeland reference areas which equates to 145 percent similarity, exceeding the required 80 percent similarity.
- The density of forbs and shrubs on the site in comparison with the native rangeland reference areas was 111 percent and 62 percent, respectively. The criteria only require either forb density or shrub density to meet the requirement of 80 percent similarity. The density of desirable forbs exceeds the required criteria.

The plant community established on this site has a good representation of the perennial species used in the seed mix. This site has a very productive plant community with good distribution of perennial species across the site which has stabilized the site. The plant community does meet all the criteria of species diversity, desired foliar cover, desirable forb density, and bare ground for successful reclamation of the disturbance at this site.

#### **Corehole Pad G**

Vegetation sampling data was collected on August 23, 2021. Three 25 meter transects were randomly placed on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The 2021 data in the Table 9 is summarized from data presented in Appendix Table E1. Each plant species encountered at this site is listed in Table E1. As shown in Table E1 there is a good representation of the seeded species established on the site.

7	Table 9 - Reference Area for Reclaimed Corehole Pad G           Vegetation Cover, Species Composition, Species Density & Ground Cover									
			-Point Can						y Data <sup>2</sup>	
		Number						Desirable		
		of	% Foliar	% Ba	asal	Species		Forb	Shrub	
Plant	Group	Species	Cover	Cov	er	Compositi	ion	Densit	y (#/m <sup>2</sup> )	
Perennial Gras	ses	9	42.1	1	10.0	81	.71		n/a	
Invasive Non-N	Native Grasses	1	0.7		0.0	1	.22		n/a	
Desirable Forbs         8         1.4         0.0         2.44         2.13									2.13	
Invasive and Non-Native Forbs 1 4.7 0.0 8.53 n/a									n/a	
Shrubs 5 3.4 0.7 6.10 0.6'									0.67	
Vegetation To	tals	24	52.3	]	10.7	100	.00		2.80	
	Line	e-Point Inter	cept Soil Su	rface (	Cover	· Data <sup>3</sup>				
Percent			Herbao	ceous						
Cover by	<b>Bare Ground</b>	<b>Biotic Crus</b>	t Litt	er	Wo	ody Litter	I	Duff	Rock	
Туре	42.0	0.	.0	42.7		6.0		0.0	0.0	
<sup>1</sup> Sum of data f	rom 3 randomly p	laced 25 meter	er transects v	with 50	samp	ole points co	llecte	d from ea	ach	
transect. Foliar	cover based upor	1 <sup>st</sup> plant spec	cies encount	ered in	the c	anopy at eac	h san	nple poin	t.	
Species compo	sition based upon	total of all pl	ant species e	encount	ered	at each samp	ole po	oint.		
Species composition based upon total of all plant species encountered at each sample point. <sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable										
forb and shrub densities were recorded based upon reclamation criteria.										
	<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from									
the top layer th	ru the lower layer	s to the soil su	urface. Valu	es for b	are g	round have 1	10 ve	getative,	litter or	
rock cover abo	ve the soil surface									

The foliar cover of desirable species on the site was 82 percent of that measured on the reference areas. The cover of perennial grasses was 4 percent greater, desirable forbs cover was 42 percent lower and shrub cover was only 24 percent of that on the reference areas. The species composition of desirable species was only 92 percent of that on the reference areas. The composition of perennial grasses was 14 percent greater, desirable forbs was 33 percent lower and shrubs was 73 percent lower.

The density of desirable forbs on the site was only 36 percent of that on reference areas. The density of shrubs on the site was only 36 percent of that on reference areas.

The amount of bare ground on this site was 17 percent greater than that measured on the reference areas. The amount of herbaceous litter on this site was 12 percent greater than that on the reference areas. The canopy gaps between perennial species measured on the site were 14 percent larger than that measured on the reference areas.

The pad site has a plant community with good representation of the perennial species used in the seed mix. There is fair distribution of perennial species across most of the site. This site is being negatively impacted by heavy grazing use and trampling from herbivores, especially wild horses.

Table 10 is a comparison of the data collected for exploration corehole pad G with that from the rolling loam rangeland reference area. Only the data required to access the success of achieving successful reclamation is used in Table 10.

Table 10 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas										
Site	# desired plant species	% desired foliar cover	% bare ground	shrub density (#/m <sup>2</sup> )	forb density (#/m <sup>2</sup> )					
Corehole Pad G	22 species	46.9	42.0	0.67	2.13					
Reference Area <sup>1</sup>	27 species	57.2	34.8	1.84	5.98					
<sup>1</sup> The average of five na reclamation criteria.	tive rangelands refe	rence areas were	e used as the bas	se for evaluating su	ccess of the					

#### **Evaluation of the reclamation efforts of the disturbance on Corehole Pad G:**

- There are 22 desirable plant species established on the site (9 perennial grasses, 8 desirable forbs, and 5 shrubs) meeting the requirement of at least five plant species.
- Slender wheatgrass (*Elymus trachycaulus*) was the desired species with the greatest relative cover at 22.7 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 82 percent of that on the native rangeland reference areas, 2 percent greater than required to meet 80 percent similarity.
- The amount of unprotected bare ground on the site was 79 percent of that on the native rangeland reference areas not meeting the required to meet 80 percent similarity.
- The density of forbs and shrubs on the site in comparison with the native rangeland reference areas was 36 percent and 36 percent, respectively. Neither desirable forbs nor shrub densities have met the requirement of 80 percent similarity.

The plant community does meet the criteria for species diversity, desired foliar cover, and bare ground, but does not meet the desirable forb density nor shrub density criteria for successful reclamation of the disturbance at the site.

#### Corehole Pads IRI-3, MW-1, PW-1, PW-2

This site includes corehole pads IRI-3, MW-1, PW-1, and PW-2. Vegetation sampling data was collected on August 18, 2021. Three 25 meter transects were randomly placed on the site with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The 2021 data in the Table 11 is summarized from data presented in Appendix Table F1. Each plant species encountered at this site is listed in Table F1. As shown in Table F1 there is a good representation of the seeded species established on the site.

	Table 11 - Reference Area for Reclaimed Corehole Pads IRI-3, MW-1, PW-1, and PW-2 Vegetation Cover, Species Composition, Species Density & Ground Cover										
	egetation cover		-Point Can				iu c		y Data <sup>2</sup>		
		Number						Desi	irable		
		of	% Foliar	% Ba	sal	Species		Forb	/Shrub		
Plant	Group	Species	Cover	Cove	er	Compositi	ion	Densit	y (#/m <sup>2</sup> )		
Perennial Gras	ses	9	54.5		5.4	88	.12		n/a		
Invasive Non-N	Native Grasses	1	2.0		0.0	4	.95		n/a		
Desirable Forb	S	8	0.7		0.0	0	.99		3.11		
Invasive and Non-Native Forbs 0 0.0 0.0 0.0 n									n/a		
Shrubs 5 4.0 0.0 5.94 1.								1.24			
Vegetation To	tals	23	61.2		5.4 100.0			4.35			
	Line	e-Point Intere	cept Soil Su	rface C	over	Data <sup>3</sup>					
Percent			Herbao	ceous							
Cover by	<b>Bare Ground</b>	<b>Biotic Crus</b>	t Litt	er	Wo	ody Litter	]	Duff	Rock		
Туре	16.7	0.	.0	59.3		2.0		0.0	0.0		
<sup>1</sup> Sum of data f	rom 3 randomly p	laced 25 meter	er transects v	with 50	samp	ole points col	llecte	ed from e	ach		
transect. Foliar	cover based upor	1 <sup>st</sup> plant spec	cies encount	ered in t	the ca	anopy at eac	h san	nple poin	t.		
Species compo	sition based upon	total of all pla	ant species e	encounte	ered a	at each samp	le po	oint.			
Species composition based upon total of all plant species encountered at each sample point. <sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable											
forb and shrub densities were recorded based upon reclamation criteria.											
<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from											
the top layer th	ru the lower layer	s to the soil su	urface. Valu	es for ba	are g	round have r	10 ve	getative,	litter or		
rock cover abo	ve the soil surface										

The foliar cover of desirable species on the site was 3 percent greater than that measured on the reference areas. The cover of perennial grasses was 35 percent greater, desirable forbs cover was 29 percent and shrub cover was 28 percent of that on the reference areas. The species composition of desirable species was 97 percent of that on the reference areas. The composition of perennial grasses was 23 percent greater than on the reference areas. Desirable forbs composition was 27 percent and shrub composition was 26 percent of that on the reference areas.

The density of desirable forbs on the site was 52 percent of that on reference areas. The density of shrubs on the site was 67 percent of that on reference areas.

The amount of bare ground on the reference areas was 52 percent greater than that measured on this site. The amount of herbaceous litter on this site was 37 percent greater than that on the reference areas. The canopy gaps between perennial species measured on the site were 16 percent smaller than that measured on the reference areas.

The site has a productive established plant community which has good representation of the perennial species used in the seed mix with good distribution of those species across the site. The plant community has stabilized the site.

Table 12 is a comparison of the data collected for exploration corehole pad IRI-3, MW-1, PW-1 and PW-2 with that from the rolling loam rangeland reference area. Only the data required to access the success of achieving successful reclamation is used in Table 12.

Table 12 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas											
Site	species foliar cover ground (#/m <sup>2</sup> ) (#/m <sup>2</sup> )										
Corehole IRI-3, MW- 1, PW-1, and PW-2	22 species	59.2	16.7	1.24	3.11						
Reference Area <sup>1</sup>	27 species	57.2	34.8	1.84	5.98						
<sup>1</sup> The average of five na reclamation criteria.	tive rangelands refe	rence areas were	used as the ba	use for evaluating su	ccess of the						

## **Evaluation of the reclamation efforts of the disturbance on Corehole Pads IRI-3, MW-1, PW-1, and PW-2:**

- There are 22 desirable plant species established on the site (9 perennial grasses, 8 desirable forbs, and 5 shrubs) meeting the requirement of at least five plant species.
- Russian wildrye (*Psathyrostachys juncea*) was the desired species with the greatest relative cover at 17.3 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 103 percent of that on the native rangeland reference areas, 23 percent greater than required to meet the 80 percent similarity.
- The amount of unprotected bare ground on the site was 52 percent less than on the native rangeland reference areas which equates to 152 percent similarity, meeting the required 80 percent similarity.
- The density of forbs and shrubs on the site in comparison with the native rangeland reference areas was 52 percent and 67 percent, respectively. Neither desirable forbs nor shrub densities have met the requirement of 80 percent similarity.

The plant community does meet the criteria of species diversity, desired foliar cover, and bare ground but does not meet the criteria for desirable forb density nor shrub density for successful reclamation of the disturbance at the site.

#### **Corehole Pad IRI-10**

Vegetation sampling data was collected on August 23, 2021. Three 25 meter transects were randomly placed on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

A visual inspection of the one-half mile access route to the pad site was conducted with photographs taken at points along the route. No quantitative vegetation data was collected along the route. The route was not reclaimed, just drill seeded with the same seed mix used on the pad, mostly perennial grasses. Road cuts were not recontoured and several areas of soil erosion were

noted along the route. The perennial grasses have established on portions of the route primarily in uncompacted areas between the two tracks.

The 2021 data in the Table 13 is summarized from data presented in Appendix Table G1. Each plant species encountered at this site is listed in Table G1. As shown in Table G1 there is a good representation of the seeded species established on the site.

Table 13 - Reclaimed Corehole Pad IRI-10           Vegetation Cover, Species Composition, Species Density & Ground Cover										
	0		-Point Can						y Data <sup>2</sup>	
		Number						Des	irable	
		of	% Foliar	% Basa	ıl	Species	1	Forb	/Shrub	
Plant	Group	Species	Cover	Cover		Compositi	ion	Densit	y (#/m <sup>2</sup> )	
Perennial Gras	ses	4	40.0	8	.7	73	.86		n/a	
Invasive Non-N	Native Grasses	0	0		0		0		n/a	
Desirable Forb	s	14	1.3	0	.7	3	.41		4.23	
Invasive and Non-Native Forbs 0 0 0 0 n/a										
Shrubs		4	12.8	2	.1	22	.73		1.84	
Vegetation To	tals	22	54.1	11	.5	10	0.0		6.07	
	Line	e-Point Inter	cept Soil Su	rface Co	ver	Data <sup>3</sup>				
Percent			Herbac	eous						
Cover by	<b>Bare Ground</b>	Biotic Crus	st Litte	er V	Noo	ody Litter	]	Duff	Rock	
Туре	32.0	0	.0	44.6		2.0		0.0	2.0	
<sup>1</sup> Sum of data f	rom 3 randomly p	placed 25 meter	er transects v	with 50 sa	mp	ole points co	llecte	ed from e	ach	
transect. Foliar	cover based upor	n 1 <sup>st</sup> plant spec	cies encounte	ered in th	e ca	anopy at eac	h sar	nple poin	ıt.	
Species compo	sition based upon	total of all pl	ant species e	ncounter	ed a	at each samp	ole po	oint.		
Species composition based upon total of all plant species encountered at each sample point. <sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable										
forb and shrub densities were recorded based upon reclamation criteria.										
<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from										
the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or										
the top hayer th	ra dile io wer lajer	b to the boll b			- 0-	iouna nave i		getair e,	inteer or	

The foliar cover of desirable species on the site was 95 percent of that measured on the reference areas. The cover of perennial grasses was 99 percent, desirable forbs cover was 54 percent, and shrub cover was 89 percent of that on the reference areas. The species composition of desirable species was 2 percent greater than that on the reference areas. The composition of perennial grasses was 3 percent greater, desirable forbs was 93 percent, and shrubs was 1 percent greater than that on the reference areas.

The density of desirable forbs on the site was 71 percent of that on reference areas. The density of shrubs on the site was equal to that on reference areas. Nearly all the density of both desirable forbs and shrubs came from species not seeded on the site but from seed sources in either the topsoil or from adjacent plants.

The amount of bare ground measured on this site was 92 percent of that on the reference areas. The amount of herbaceous litter was 16 percent greater than that on the reference areas. The canopy gaps between perennial species measured on this site were 3 percent smaller than that measured on the reference areas.

Table 14 is a comparison of the data collected for corehole pad IRI-10 with that from the rolling loam rangeland reference area. Only the data required to access the success of achieving successful reclamation is used in Table 14.

Table 14 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas											
Site	# desired plant species										
Corehole IRI-10	22 species	54.1	32.0	1.84	4.23						
Reference Area <sup>1</sup> 27 species         57.2         34.8         1.84         5.98											
<sup>1</sup> The average of five 1	<sup>1</sup> The average of five native rangelands reference areas were used as the base for evaluating success of the										

reclamation criteria.

#### **Evaluation of the reclamation efforts of the disturbance on Corehole IRI-10**

- There are 22 desirable plant species established on the site (4 perennial grasses, 14 desirable forbs, and 4 shrubs) meeting the requirement of at least five plant species.
- Crested wheatgrass (*Agropyron cristatum*) was the desired species with the greatest relative cover at 33.3 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 95 percent of that on the native rangeland reference areas, 15 percent greater than required to meet the 80 percent similarity.
- The amount of unprotected bare ground on the site was 8 percent less than that on the native rangeland reference areas, which equates to 108 percent similarity meeting the required 80 percent similarity.
- The density of forbs on the site was 71 percent of that on native rangeland reference areas not meeting the requirement of 80 percent similarity. The shrub density was equal to that on native rangeland reference areas meeting the required 80 percent similarity. The criteria only require either forb density or shrub density meet the requirement of 80 percent similarity.

The plant community does meet the criteria for species diversity, desired foliar cover, shrub density and bare ground but not the criteria for density of desirable forbs. The plant community on this site meets the required criteria for successful reclamation of the disturbance.

#### **Corehole Pad Q**

Vegetation sampling data was collected on August 24, 2021. Three 25 meter transects were randomly placed on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The 2021 data in the Table 15 is summarized from data presented in Appendix Table H1. Each plant species encountered at this site is listed in Table H1. As shown in Table H1 there is a good representation of the seeded species established on the site.

	Table 15	5 - Reference	Area for R	eclaime	d Cor	ehole Pad Q		Table 15 - Reference Area for Reclaimed Corehole Pad Q										
, T	<b>Vegetation</b> Cover	, Species Con	position, S	pecies	Dens	ity & Grou	nd Co	over										
		Line	Point Can	opy Int	ercep	pt Data <sup>1</sup>		Densit	y Data <sup>2</sup>									
		Number						Desi	irable									
		of	% Foliar	% Basal		Species		Forb/Shrub										
Plant	Plant Group		Cover	Cov	er	Compositi	ion	Densit	y (#/m <sup>2</sup> )									
Perennial Gras	Perennial Grasses		40.0	1	10.6	60	.01		n/a									
Invasive Non-I	Native Grasses	1	3.3		0.0	8	.18		n/a									
Desirable Forb	S	9	6.7		0.7	9	.09		4.08									
Invasive and N	on-Native Forbs	1	4.7		0.0	6	6.36											
Shrubs		4	9.3		0.0	16	.36		1.60									
Vegetation To	otals	24	64.0	1	1.3	10	0.0		5.68									
	Line	e-Point Interc	ept Soil Su	rface C	Cover	Data <sup>3</sup>												
Percent			Herbao	ceous														
Cover by	<b>Bare Ground</b>	<b>Biotic Crust</b>	t Litt	er	Wo	ody Litter	I	Duff	Rock									
Туре	17.3	0.	0	53.3		4.7		0.0	0.7									
<sup>1</sup> Sum of data from 3 randomly placed 25 meter transects with 50 sample points collected from each																		
transect. Foliar cover based upon 1 <sup>st</sup> plant species encountered in the canopy at each sample point.																		
Species composition based upon total of all plant species encountered at each sample point.																		
<sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable																		
forb and shrub	densities were rec	corded based u	pon reclam	ation cr	iteria	l <b>.</b>												
<sup>3</sup> Percentages a	re not cumulative	with vegetation	on totals rat	ther a m	neasu	re by laver o	f gro	und cove	er from									

<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.

The foliar cover of desirable species on the site was 98 percent of that measured on the reference areas. The cover of perennial grasses was 100 percent, desirable forbs cover was 64 percent greater, and shrub cover was 55 percent of that on the reference areas. The species composition of desirable species was 88 percent of that on the reference areas. The composition of perennial grasses was 84 percent greater, desirable forbs composition was nearly 2.5 times greater, and shrubs composition was 73 percent of that on the reference areas.

The density of desirable forbs on the site was 68 percent of that on reference areas. The density of shrubs was 87 percent greater than that on reference areas.

The amount of bare ground on the reference areas was 50 percent greater than that measured on this site. The amount of herbaceous litter on this site was 71 percent greater than that on the reference areas. The canopy gaps between perennial species measured on the site were 12 percent larger than that measured on the reference areas.

The site has a productive established plant community which has good representation of the perennial species used in the seed mix with good distribution of those species across the site. The plant community has stabilized the site.

Table 16 is a comparison of the data collected for exploration corehole pad Q with that from the rolling loam rangeland reference area. Only the data required to access the success of achieving successful reclamation is used in Table 16.

Table 16 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas											
Site	# desired plant species										
Corehole Pad Q	22 species	56.0	17.3	1.60	4.07						
Reference Area <sup>1</sup> 27 species         57.2         34.8         1.84         5.98											
<sup>1</sup> The average of five r	native rangelands refe	rence areas were	e used as the ba	se for evaluating su	ccess of the						

reclamation criteria.

#### Evaluation of the reclamation efforts of the disturbance on Corehole Pad Q

- There are 22 desirable plant species established on the site (9 perennial grasses, 9 desirable forbs, and 4 shrubs) meeting the requirement of at least five plant species.
- Needle & thread needlegrass (*Hesperostipa comata*) was the desired species with the greatest relative cover at 14 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 98 percent of that on the native rangeland reference areas meeting the requirement of 80 percent similarity.
- The amount of unprotected bare ground on the site was 50 percent less than on the native rangeland reference areas which equates to 150 percent similarity, meeting the required 80 percent similarity.
- The density of forbs and shrubs on the site in comparison with the native rangeland reference areas was 68 percent and 87 percent, respectively. The criteria only require either forb density or shrub density meet the requirement of 80 percent similarity. The density of shrubs exceeds the required criteria.

The plant community does meet the criteria of species diversity, desired foliar cover, desirable shrub density and bare ground. The requirements for successful reclamation of the disturbance have been met for this site.

#### **Corehole Pad Q Access Route**

This is a narrow linear reclaimed access road leading to corehole pad Q. Vegetation sampling data was collected on August 24, 2021. As this site was a linear disturbance, three 25 meter transects were randomly placed one near either end of the route and one near the mid-point of the route. Each transect had 50 sample points for a total of 150 points for the site for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this access route include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock. Photographs were taken at each transect to show the plant community present.

The 2021 data in the Table 17 is summarized from data presented in Appendix Table I1. Each plant species encountered at this site is listed in Table I1. As shown in Table I1 there is a good representation of the seeded species established on the site.

	Table 17 - Reclaimed Access Route to Corehole Pad Q Vegetation Cover, Species Composition, Species Density & Ground Cover										
	egetation Cover		<u>iposition, S</u> -Point Can	-			nd C		y Data <sup>2</sup>		
Plant Group		Number of Species	% Foliar Cover	% Ba Cov	asal	Species Compositi		Des Forb	irable /Shrub y (#/m <sup>2</sup> )		
Perennial Gras		7	38.1		10.0		.54		n/a		
Invasive Non-N	Native Grasses	0	0.0		0.0		0.0		n/a		
Desirable Forb	8	16	12.2		0.7	21	5.7				
Invasive and N	on-Native Forbs	0	0.0		0.0		0.0	.0 n/			
Shrubs		7	5.3		0.0	10.12			0.72		
Vegetation To	tals	30	55.6		10.7	10	0.0		6.46		
	Line	-Point Interc	ept Soil Su	rface (	Cover	Data <sup>3</sup>					
Percent Cover by	Bare Ground	Biotic Crus	Herbac t Litt		Wo	ody Litter	J	Duff	Rock		
Type         31.3         0.0         30.7         2.7         0.0         2							2.7				
<sup>1</sup> Sum of data from 3 randomly placed 25 meter transects with 50 sample points collected from each transect. Foliar cover based upon 1 <sup>st</sup> plant species encountered in the canopy at each sample point. Species composition based upon total of all plant species encountered at each sample point. <sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable forb and shrub densities were recorded based upon reclamation criteria.											

<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.

The foliar cover of desirable species on the site was 97 percent of that measured on the reference areas. The cover of perennial grasses was 94 percent, desirable forbs cover was 4 times greater, and shrub cover was 63 percent of that measured on the reference areas. The species composition of desirable species was 2.5 percent greater than that on the reference areas. The composition of perennial grasses was 4 percent lower, desirable forbs was 4 times greater and shrubs was 45 percent of that measured on the reference areas.

The density of desirable forbs on the site was 96 percent of that on reference areas. The density of shrubs on the site was 39 percent of that on reference areas.

The amount of bare ground on this site was 10 percent less than that measured on the reference areas. The amount of herbaceous litter was 82 percent of that on the reference areas. The canopy gaps between perennial species measured on this site were 19 percent larger than that measured on the reference areas.

The access route has a plant community which has a composition of the perennial species from the seed mix along with seed from native species in the replaced topsoil or from adjacent plants. There was an excellent response of native forbs and shrubs adjacent the route pioneering onto and establishing on the route. There is good distribution of desirable species across the route which has stabilized the disturbance. Table 18 is a comparison of the data collected from the access route to corehole pad Q with that from the rolling loam rangeland reference area. Only the data required to access the success of achieving successful reclamation is used in Table 18.

Table 18 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas											
Site	# desired plant% desired% bareshrub densityforb densityspeciesfoliar coverground(#/m²)(#/m²)										
Access Route to Pad Q	30 species	55.6	31.3	0.72	5.74						
Reference Area <sup>1</sup> 27 species         57.2         34.8         1.84         5.98											
<sup>1</sup> The average of five nat	ive rangelands refe	<sup>1</sup> The average of five native rangelands reference areas were used as the base for evaluating success of the									

reclamation criteria.

# **Evaluation of the reclamation efforts of the disturbance on Access Route to Corehole Pad Q:**

- There are 30 desirable plant species established on the site (7 perennial grasses, 16 desirable forbs, and 7 shrubs) meeting the requirement of at least five plant species.
- Indian ricegrass (*Achnatherum hymenoides*) was the desired species with the greatest relative cover at 30.7 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 97 percent of than that on the native rangeland reference areas, 17 percent greater than the requirement of 80 percent similarity.
- The amount of unprotected bare ground on the site was 10 percent greater than that on the native rangeland reference areas which equates to 110 percent similarity, meeting the required 80 percent similarity.
- The density of forbs on the site was 96 percent of that on native rangeland reference areas meeting the requirement of 80 percent similarity. The shrub density was 39 percent of that on native rangeland reference areas not meeting the required 80 percent similarity. The criteria only require either forb density or shrub density meet the requirements. Forb density exceeds 80 percent similarity with the native rangeland reference areas meeting the required criteria.

The plant community meets the criteria for species diversity, desired foliar cover, desirable forb density and bare ground. It does not meet the shrub density criteria. The reclaimed route meets the reclamation standards required for successful reclamation.

#### **Corehole Pad U**

Vegetation sampling data was collected on August 24, 2021. Three 25 meter transects were randomly placed on the pad with 50 sample points on each transect for a total of 150 points for cover data. Ten one-meter square density quadrants were placed along each transect for a total of 30 quadrants. Data collected from this site include vegetative foliar and basal cover, species composition, forb and shrub densities and ground cover all summarized by plant group. In

addition, ground cover data was collected for dead vegetative litter, bare ground, and surface rock.

The 2021 data in the Table 19 is summarized from data presented in Appendix Table J1. Each plant species encountered at this site is listed in Table J1. As shown in Table J1 there is a good representation of the seeded species established on the site.

Table 19 - Reference Area for Reclaimed Corehole Pad U           Vegetation Cover, Species Composition, Species Density & Ground Cover											
	0	Line-Point Canopy Intercept Data <sup>1</sup>						Density Data <sup>2</sup>			
								Desirable			
			% Foliar	% Ba				Forb/Shrub			
Plant	: Group	Species	Cover	Cov	er	Composition		Density (#/m <sup>2</sup> )			
Perennial Grass	ses	5	14.6		2.7	34.29		n/a			
Invasive Non-N	Native Grasses	0	0.0		0.0	0.0		n/a			
Desirable Forb	S	3	2.7		0.0	5.71		1.96			
Invasive and N	on-Native Forbs	1	10.7		0.0	22.86		n/a			
Shrubs		5	17.4		0.7	37.14		1.03			
Vegetation Totals		14	45.4		3.4	4 100.0		2.99			
Line-Point Intercept Soil Surface Cover Data <sup>3</sup>											
Percent			Herbao	eous							
Cover by	<b>Bare Ground</b>	Biotic Crus	st Litt	er	Wo	ody Litter	]	Duff	Rock		
Туре	36.0	0	.0	30.0	6.0			0.0	0.0		
<sup>1</sup> Sum of data from 3 randomly placed 25 meter transects with 50 sample points collected from each											
transect. Foliar cover based upon 1 <sup>st</sup> plant species encountered in the canopy at each sample point.											
Species composition based upon total of all plant species encountered at each sample point.											
<sup>2</sup> Sum of density data collected from ten 1-meter square quadrants along each transect. Only desirable											
forb and shrub densities were recorded based upon reclamation criteria.											
<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from											
the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or											
rock cover above the soil surface.											

The foliar cover of desirable species on the site was 61 percent of that measured on the reference areas. The cover of perennial grasses was 36 percent, desirable forbs cover was 11 percent greater, and shrub cover was 17 percent greater than that measured on the reference areas. The species composition of desirable species was only 79 percent of that on the reference areas. The composition of perennial grasses was 48 percent lower, desirable forbs was 36 percent greater and shrubs was 34 percent greater than that measured on the reference areas.

The density of desirable forbs on the site was only 33 percent of that on reference areas. The density of shrubs on the site was only 56 percent of that on reference areas.

The amount of bare ground on this site was 3 percent greater than that measured on the reference areas. The amount of herbaceous litter on this site was 20 percent less than that on the reference areas. The canopy gaps between perennial species measured on the site were 46 percent larger than that measured on the reference areas.

This site is being negatively impacted from heavy grazing use by cattle and wild horses. There is poor distribution across the site of the perennial species used in the seed mix. Most of the perennial species on the site are grazing tolerant grasses and shrubs that have pioneered the site

from adjacent stands. The foliar cover of Russian thistle, an invasive non-native species, exceeds the cover of all the perennial species on the site except for yellow rabbitbrush.

Table 20 is a comparison of the data collected for exploration corehole pad U with that from the rolling loam rangeland reference area. Only the data required to access the success of achieving successful reclamation is used in Table 20.

Table 20 – Comparison of Reclamation Criteria Elements with Native Rangeland Reference Areas										
Site	# desired plant species	% desired foliar cover	% bare ground	shrub density (#/m <sup>2</sup> )	forb density (#/m <sup>2</sup> )					
Corehole Pad U	13 species	34.7	36.0	1.03	1.96					
Reference Area <sup>1</sup>	27 species	60.4	34.8	1.84	5.98					
<sup>1</sup> The average of five <i>n</i> reclamation criteria.	native rangelands refe	rence areas were	used as the ba	se for evaluating su	ccess of the					

#### **Evaluation of the reclamation efforts of the disturbance on Corehole Pad U:**

- There are 13 desirable plant species established on the site (5 perennial grasses, 3 desirable forbs, and 5 shrubs) meeting the requirement of at least five plant species.
- Yellow rabbitbrush (*Chrysothamnus viscidiflorus*) was the desired species with the greatest relative cover at 12 percent meeting the requirement that no one species can exceed 70 percent relative cover.
- The foliar cover of desirable species on the site was 61 percent of that on the native rangeland reference areas not meeting the requirement of 80 percent similarity.
- The amount of unprotected bare ground on the site was 3 percent greater than on the native rangeland reference areas which equates to 97 percent similarity, meeting the required 80 percent similarity.
- The density of forbs and shrubs on the site in comparison with the native rangeland reference areas was 33 percent and 56 percent, respectively. Neither desirable forbs nor shrub densities have met the requirement of 80 percent similarity.

The plant community only meets the criteria for species diversity and bare ground. The criteria for the desired foliar cover, desirable forb density and shrub density have not been met. This site does not meet all the criteria for successful reclamation of the disturbance at the site.

**Location Map** 


# Appendix A – Vegetation Sampling Data Native Rangeland Reference Areas

	Plant Species Observed wi	thin Study Area	Line-Poin	t Canopy Ir	ntercept Data <sup>1</sup>	Density Data
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition	
ACHY	Achnatherum hymenoides	Indian ricegrass	2.00	0.80	3.03	
HECO26	Hesperostipa comata	needle & thread needlegrass	26.40	6.00	44.85	
KOMA	Koeleria macrantha	prairie junegrass	4.40	0.00	9.70	
PASM	Pascopyrum smithii	western wheatgrass	6.40	0.00	10.30	Desirable
POSE	Poa secunda	Sandberg bluegrass	1.20	0.00	3.64	Forb/Shrub
Perennial	Grass Totals		40.40	6.80	71.52	Density (#/m <sup>2</sup>
ASCH	Astragalus chamaeleuce	cicada milkvetch	0.00	0.00	0.00	0.1
ASCO12	Astragalus convallarius	lesser-rushy mlkvetch	0.40	0.00	0.61	0.0
ASSP6	Astragalus spatulatus	tufted milkvetch	0.00	0.00	0.00	0.0
CAFI	Carex filifolia	threadleaf sedge	1.60	0.00	2.42	0.0
CRAC	Crepis acuminata	longleaf hawksbeard	0.00	0.00	0.00	0.0
CRFL6	Cryptantha flavoculata	roughseed cryptanth	0.00	0.00	0.00	0.0
EREA	Erigeron eatonii	Eaton's fleabane	0.00	0.00	0.00	0.3
HEBO	Hedysarum boreale	Utah sweetvetch	0.00	0.00	0.00	0.0
LEER	Leucelene ericoides	heath aster	0.00	0.00	0.00	0.2
MAGR2	Machaeranthera grindelioides	rayless tansyaster	0.00	0.00	0.00	0.3
OPPO	Opuntia polyacantha	plains pricklypear cactus	0.00	0.00	0.00	0.0
PAMU11	Pakera multilobata	lobeleaf groundsel	0.00	0.00	0.00	0.0
PEFRF5	Penstemon fremontii var. fremontii	Fremont beardtongue	0.00	0.00	0.00	0.0
PHHO	Phlox hoodii	Hood's phlox	0.40	0.00	0.61	1.6
PHLO2	Phlox longifolia	longleaf phlox	0.00	0.00	0.00	0.0
SPCO	Sphaeralcea coccinea	scarlet globemallow	0.00	0.00	0.00	3.1
TOIN	Townsendia incana	Townsend daisy	0.00	0.00	0.00	0.0
Desirable	Forb Totals		2.40	0.00	3.64	5.9
	Artemisia tridentata var.	W7 · 1 · 1 1	12.20	0.40	20 (1	1.5
ARTRW	wyomingensis	Wyoming big sagebrush	13.20	0.40	20.61	1.5
CHVI8 GUSA2	Chrysothamnus viscidiflorus Gutierrezia sarothrae	yellow rabbitbrush broom snakeweed	0.80	0.00	1.21	0.0
			0.00	0.00	0.00	
JUOS KRLA2	Juniperus osteosperma Krascheninnikovia lanata	Utah juniper	0.00	0.00		0.0
Shrub Tot		winterfat	14.40	0.00	0.61	1.8
BRTE	Bromus tectorum	cheatgrass	14.40	0.40	2.42	1.0
1 otals for	Invasive and Non-Native Specie	S Vegetation Totals	1.60	0.00	2.42	
<sup>1</sup> Sum of d	ata from 5 randomly placed transec	58.80	7.20	100.00	$\frac{7.8}{(9/)^3}$	
<sup>1</sup> Sum of data from 5 randomly placed transects with 50 sample points collected from ea transect. Foliar cover based upon 1 <sup>st</sup> plant species encountered in the canopy at each sam				5011	Surface Cover ' Bare Ground	<u>1ype (%)</u> 34.
point. Spec	ies composition based upon total o					
point.	maite data apli-st-lf. 10	maast		Biotic Crust	<u> </u>	
<sup>2</sup> Sum of density data collected from 10 one-square meter quadrants along each transect. Only desirable forb and shrub densities were recorded based upon reclamation criteria.					Herbaceous Litter	
<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground					Woody Litter	0.
	the top layer thru the lower layers		or ground		Duff	0.
	top tay of and the lower layers			Rock	0.	

Table A2 - Canopy Gap Intercept DataRolling Loam Native Rangeland Reference Area										
Canopy Gaps > 20	Total of 20		Gaps 21-50 cm		Gaps 51-100 cm		Gaps 101-200 cm		Gaps >200 cm	
centimeters	2020	2021	2020	2021	2020	2021	2020	2021	2020	2021
Transect 1	991	1378	452	282	317	326	222	770	0	0
Transect 2	628	996	224	335	404	661	0	0	0	0
Transect 3	629	1113	498	358	131	755	0	0	0	0
Transect 4	317	691	222	528	95	163	0	0	0	0
Transect 5	434	485	383	345	51	140	0	0	0	0
Total Gaps (cm)	4042	4663	2224	1848	1306	2045	512	770	0	0
% Line in Gaps	26.95	37.30	14.83	14.78	8.71	16.36	3.41	6.16	0.00	0.00

*Line length for each transect was 25 meters for site total length of 125 meters.* 

	Table A3 - Transect Coordinates           Native Rangeland Reference Areas (Datum: UTM Zone 12, WGS 84)									
	Azimuth from	Transect Sta	rting Point	Transect En						
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length				
Transect 1	303 °	4424086.2	724791.8989	4424098.45	724770.4119	25 meters				
Transect 2	020 °	4426548.8	725836.8301	4426569.88	725839.625	25 meters				
Transect 3	001 °	4423016.56	725352.0032	4423043.21	725347.7937	25 meters				
Transect 4	335 °	4424614.262	725035.7116	4424637.846	725025.4365	25 meters				
Transect 5	168 °	4424440.817	725542.7802	4424417.982	725552.0941	25 meters				

## **Transect Photos Native Rangeland Reference Areas**



Figure A1 - Rolling Loam Rangeland Reference Area Transect #1



Figure A2 - Rolling Loam Rangeland Reference Area Transect #2



Figure A3 - Rolling Loam Rangeland Reference Area Transect #3



Figure A4 - Rolling Loam Rangeland Reference Area Transect #4



Figure A5 - Rolling Loam Rangeland Reference Area Transect #5

	Table B1 - Vegetation	Cover, Species Composit Reclaimed Pad 9		Density & (	Ground Cover	
	Plant Species Observed with		Line-Poin	Density Data <sup>2</sup>		
Species			% Foliar	% Basal	Species	¥
Symbol	Scientific Name	Common Name	Cover	Cover	Composition	
AGCR	Agropyron cristatum	crested wheatgrass	4.7	0.7	7.00	
ELLAL	Elymus lanceolatus	thickspike wheatgrass	5.3	2.7	8.00	
ELTR7	Elymus trachycaulus	slender wheatgrass	4.7	0.0	8.00	
LECI4	Leymus cinereus	basin wildrye	4.7	1.3	7.00	
PASM	Pascopyrum smithii	western wheatgrass	16.0	0.7	27.00	
PSJU3	Psathyrostachys juncea	Russian wildrye	13.3	2.7	20.00	
THIN6	Thinopyrum intermedium	pubescent wheatgrass	6.0	2.7	10.00	Forb/Shrub
		Perennial Grass Totals	54.7	10.8	87.00	Density (#/m <sup>2</sup> )
DEPI	Descurainia pinnata	western tansymustard	0.0	0.0	0.00	0.47
GRSQ	Grindelia squarrosa	curlycup gumweed	0.0	0.0	0.00	0.03
SPCO	Sphaeralcea coccinea	scarlet globemallow	0.0	0.0	0.00	0.17
TRDU	Tragopogon dubius	western salsify	0.0	0.0	0.00	0.03
		<b>Desirable Forb Totals</b>	0.0	0.0	0.00	0.70
ARTRW	Artemisia tridentata var. wyomingensis	Wyoming big sagebrush	0.0	0.0	0.00	0.33
ATCA2	Atriplex canescens	four-wing saltbush	0.7	0.0	1.00	0.03
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	6.0	0.0	9.00	0.37
GUSA2	Gutierrezia sarothrae	broom Snakeweed	0.0	0.0	0.00	0.13
		Shrub Totals	6.7	0.0	10.00	0.86
BRTE	Bromus tectorum	cheatgrass	0.7	0.0	3.00	
	Totals for Invasive	and Non-Native Species	0.7	0.0	3.00	
		Vegetation Totals	62.1	10.8	100.0	1.56
	tta from 3 randomly placed 25 meter ransect. Foliar cover based upon 1 <sup>s</sup>		Percent Ground Cover by Cover Type <sup>3</sup>			

## Appendix B – Vegetation Sampling Data Reclaimed Well Pad 93-2M

at each sample point. Species composition based upon total of all plant species encountered at each sample point.

	-
Bare Ground	14.7
Biotic Crust	0.0
Herbaceous Litter	63.3
Woody Litter	4.0
Duff	0.0
Rock	0.0

<sup>2</sup> Sum of density data collected from 10 one-square meter quadrants along each transect. Only desirable forb and shrub densities were recorded based upon reclamation criteria. <sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.

Table B2 - Canopy Gap Intercept Data         Reclaimed Pad 93-2M										
Canopy Gaps > 20 centimeters	Total o	-	Gaps	21-50	Gaps :	51-100	Gaps 1	01-200	Gaps	>200
	> 20	cm	cm		cm		CI	n	cı	n
	2019	2021	2019	2021	2019	2021	2019	2021	2019	2021
Transect 1	354	584	130	325	224	259	0	0	0	0
Transect 2	860	656	60	417	503	239	297	0	0	0
Transect 3	944	467	54	161	302	197	588	109	0	0
Total Gaps (cm)	2158	1707	244	903	1029	695	885	109	0	0
% Line in Gaps	28.77	22.76	3.25	12.04	13.72	9.27	11.80	1.45	0.00	0.00
Line length for each	transect v	vas 25 m	eters for .	site total	length of	<sup>r</sup> 75 meter	rs			

Table B3 - Transect CoordinatesReclaimed Pad 93-2M (Datum: UTM Zone 12, WGS 84)									
	Azimuth from	Transect Starting Point Transect Ending Point							
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length			
Transect 1	157 °	4423693.7	725376.2914	4423661.47	725379.9814	25 meters			
Transect 2	248 °	4423690.39	725369.803	4423690.22	725348.8525	25 meters			
Transect 3	319 °	4423690.29	725377.5042	4423713.9	725364.4891	25 meters			

**Transect Photos** 



Figure B1 Transect 1 Reclaimed Pad 93-2M



Figure B2





Figure B3 Transect 3 Reclaimed Pad 93-2M

Appendix C -	- Vegetation	Sampling Data	Reclaimed	<b>Corehole Pad C</b>
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	Table C1 - Vegetation	n Cover, Species Composition Reclaimed Exploration		ensity & G	round Cover		
	Plant Species Observed with	thin Study Area	Line-Poi	nt Canopy I	ntercept Data <sup>1</sup>	Density Data <sup>2</sup>	
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition		
ACHY	Achnatherum hymenoides	Indian ricegrass	10.0	1.3	15.89		
ELLAL	Elymus lanceolatus	thickspike wheatgrass	2.7	0.7	3.74		
ELTR7	Elymus trachycaulus	slender wheatgrass	6.0	2.7	9.35		
HECO26	Hesperostipa comata	needle & thread needlegrass	12.7	3.3	18.69		
LECI4	Leymus cinereus	basin wildrye	4.0	0.0	5.61		
NAVI4	Nassella viridula	green needlegrass	0.0	0.0	0.93		
PASM	Pascopyrum smithii	western wheatgrass	0.7	0.0	0.93		
PSJU3	Psathyrostachys juncea	Russian wildrye	2.7	0.7	3.74		
10000	Pseudoroegneria spicata	beardless bluebunch	2.7	0.7	5.71		
PSSPI	ssp. inermis	wheatgrass	0.7	0.0	0.93		
15511	Pseudoroegneria spicata	wilcatgrass	0.7	0.0	0.75	Desirable	
PSSPS	ssp. spicata	bearded bluebunch wheatgrass	0.7	0.0	1.87	Forb/Shrub	
15515	ssp. spicuiu	Perennial Grass Totals	40.2	8.7	61.68	Density (#/m <sup>2</sup> )	
ASCI4	Astragalus cicer	cicer milkvetch	1.3	0.0	1.87	0.47	
ASC012	Astragalus convallarius	lesser-rushy mlkvetch	0.0	0.0	0.00	0.30	
CLSE	Cleome serrulata	Rocky Mtn. beeplant	2.0	0.0	3.74	0.17	
CRFL6	Cryptantha flavoculata	roughseed cryptanth	0.0	0.0	0.00	0.13	
EREA	Erigeron eatonii	Eaton's fleabane	0.0	0.0	0.00	0.13	
HEBO	Hedysarum boreale	Utah sweetvetch	0.0	0.0	0.00	0.10	
IPAGA3	Ipomopsis aggregata	scarlet gilia	0.0	0.0	0.00	0.03	
LEER	Leucelene ericoides	heath aster	0.0	0.0	0.00	0.07	
LILE3	Linum lewisii	Lewis flax	0.0	0.0	0.00	0.23	
MACA2	Machaeranthera canescens	hoary tansyaster	0.7	0.0	0.93	0.63	
MESA	Medicago sativa	alfalfa	0.0	0.0	0.00	0.77	
SPCO	Sphaeralcea coccinea	scarlet globernallow	0.0	0.0	0.00	0.20	
		<b>Desirable Forb Totals</b>	4.0	0.0	6.54	3.33	
ARTRW	Artemisia tridentata var. wyomingensis	Wyoming big sagebrush	0.0	0.0	0.00	0.07	
ATCA2	Atriplex canescens	four-wing saltbush	12.0	0.7	16.82	1.07	
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	0.0	0.0	0.00	0.03	
GUSA2	Gutierrezia sarothrae	broom Snakeweed	1.3	0.0	1.87	0.80	
KRLA2	Krascheninnikovia lanata	winterfat	1.3	0.0	3.74	0.17	
PUTR2	Purshia tridentata	antelope bittrebrush	1.3	0.0	1.87	0.20	
		Shrub Totals	15.9	0.7	24.30	2.34	
BRTE	Bromus tectorum	cheatgrass	2.7	0.0	5.61		
SATR12	Salsola tragus	Russian thistle	1.3	0.0	1.87		
	Totals for In	vasive and Non-Native Species	4.0	0.0	7.48		
Vegetation Totals 64.1 9.4 100.00							
from each t	m of data from 3 randomly placed 25 meter transects with 50 sample points collected n each transect. Foliar cover based upon 1 <sup>st</sup> plant species encountered in the canopy at						
each sample point. Species composition based upon total of all plant species encountered						und 18.7	
at each sam			rust 0.0				
	ensity data collected from 10 one						
Only desirable forb and shrub densities were recorded based upon reclamation criteria.					Herbaceous Litter Woody Litter		
		ation totals, rather a measure by lay					
ground cove		Duff 0.0					
ground have	e no vegetative, litter or rock cov	er above the soil surface.			R	kock 0.7	

Table C2 - Canopy Gap Intercept Data     Reclaimed Corehole Pad C									
Canopy Gaps > 20 centimeters	Total of Gaps > 20 cm	Gaps 21-50 cm	Gaps 51-100 cm	Gaps 101-200 cm	Gaps >200 cm				
Transect 1	958	487	115	356	0				
Transect 2	1103	226	703	174	0				
Transect 3	936	414	259	263	0				
Total Gaps (cm)	2997	1127	1077	793	0				
% Line in Gaps	39.96	15.03	14.36	10.57	0.00				
Line length for each	transect was 25 me	eters for site total	length of 75 meter	rs					

	Table C3 - Transect Coordinates         Reclaimed Corehole Pad C (Datum: UTM Zone 12, WGS 84)									
	Azimuth from	Transect Starting Point Transect Ending Point								
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length				
Transect 1	222 °	4423787.56	724743.487	4423766.34	724728.4604	25 meters				
Transect 2	069 °	4423782.37	724748.1733	4423796.6	724767.3404	25 meters				
Transect 3	285 °	4423786.86	724746.2445	4423791.92	724718.1265	25 meters				



Figure C1 Transect 1 Reclaimed Corehole Pad C

Figure C2 Transect 2 Reclaimed Corehole Pad C



Figure C3 Transect 3 Reclaimed Corehole Pad C

# Appendix D – Vegetation Sampling Data Reclaimed Corehole Pad E

	Table D1 - Vegetation Cover, Species Composition, Species Density & Ground Cover         Reclaimed Exploration Corehole Pad E									
	Plant Species Observed wi				ntercept Data <sup>1</sup>	Density Data <sup>2</sup>				
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition					
ACHY	Achnatherum hymenoides	Indian ricegrass	2.0	0.0	2.80					
ELLAL	Elymus lanceolatus	thickspike wheatgrass	4.0	1.3	5.61					
ELTR7	Elymus trachycaulus	slender wheatgrass	27.3	6.7	41.12					
HECO26	Hesperostipa comata	needle & thread needlegrass	4.0	0.7	5.61					
NAVI4	Nassella viridula	green needlegrass	7.3	2.7	10.28					
PASM	Pascopyrum smithii	western wheatgrass	2.0	0.0	2.80	Desirable				
PSJU3	Psathyrostachys juncea	Russian wildrye	6.0	1.3	8.41	Forb/Shrub				
		Perennial Grass Totals	52.6	12.7	76.64	Density (#/m <sup>2</sup> )				
CLSE	Cleome serrulata	Rocky Mtn. beeplant	0.0	0.0	0.0	0.10				
HEBO	Hedysarum boreale	Utah sweetvetch	0.0	0.0	0.0	0.20				
MACA2	Machaeranthera canescens	hoary tansyaster	5.3	1.3	10.28	0.03				
MESA	Medicago sativa	alfalfa	0.7	0.0	0.93	5.10				
SPCO	Sphaeralcea coccinea	scarlet globernallow	0.7	0.0	1.87	1.30				
		<b>Desirable Forb Totals</b>	6.7	1.3	13.08	6.73				
ARTRW	Artemisia tridentata var. wyomingensis	Wyoming big sagebrush	0.7	0.0	9.35	0.1 3				
ATCA2	Atriplex canescens	four-wing saltbush	6.7	0.0	0.00	0.53				
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	0.0	0.0	0.00	0.03				
GUSA2	Gutierrezia sarothrae	broom snakeweed	0.0	0.0	0.00	0.07				
KRLA2	Krascheninnikovia lanata	winterfat	0.7	0.0	0.93	0.37				
		Shrub Totals	8.1	0.0	10.28	1.13				
SATR12	Salsola tragus	Russian thistle	0.0	0.0	0.0					
	Totals for In	vasive and Non-Native Species	0.0	0.0	0.0					
		Vegetation Totals	67.4	14.0	100.0	7.86				
from each t	ata from 3 randomly placed 25 m ransect. Foliar cover based upon	e canopy at	Percent Ground Cover by Cover Type <sup>3</sup>							
		ed upon total of all plant species en	licountered		Bare Gro	ound 19.3				
at each sam $^{2}$ Sum of do		h transact		Biotic Crust 0.						
		-square meter quadrants along each e recorded based upon reclamation		Herbaceous Litter 43.3						
		ation totals, rather a measure by lay			Woody L	itter 2.7				

<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of
ground cover from the top layer thru the lower layers to the soil surface. Values for bare
ground have no vegetative, litter or rock cover above the soil surface.

Table D2 - Canopy Gap Intercept Data Reclaimed Corehole Pad E									
Canopy Gaps > 20 centimeters         Total of Gaps > 20 cm         Gaps 21-50 cm         Gaps 51-100 cm         Gaps 101-200 cm         Gaps >200 cm									
Transect 1	712	459	253	0	0				
Transect 2	514	341	61	112	0				
Transect 3	653	383	155	115	0				
Total Gaps (cm)	1879	1183	469	227	0				
% Line in Gaps         25.05         15.77         6.25         3.03         0.00									
Line length for each	transect was 25 me	eters for site total	length of 75 meter	rs					

Duff Rock 0.0 2.0

	Table D3 - Transect Coordinates         Reclaimed Corehole Pad E (Datum: UTM Zone 12, WGS 84)									
	Azimuth from	Transect Sta	rting Point	Transect En	ding Point					
Site	starting point (true N)	Northing (mN)	Northing (mN) Easting (mE) Northing (mN) Easting (mE)							
Transect 1	197 °	4424567.02	725031.2057	4424539.64	725025.8566	25 meters				
Transect 2	264 °	4424566.0 725030.5516 4424563.74 725006.8428								
Transect 3	081 °	4424562.74	725036.8056	4424574.28	725058.7864	25 meters				



Figure D1 Transect 1 Reclaimed Corehole Pad E



Figure D2 Transect 2 Reclaimed Corehole Pad E



Figure D3 Transect 3 Reclaimed Corehole Pad E

	Table E1 - Vegetation	n Cover, Species Composition		ensity & G	round Cover	
	Plant Species Observed wi	Reclaimed Exploration	r	nt Canopy I	ntercept Data <sup>1</sup>	Density Data <sup>2</sup>
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition	
ACHY	Achnatherum hymenoides	Indian ricegrass	3.3	1.3	7.32	
ELLAL	Elymus lanceolatus	thickspike wheatgrass	4.0	0.7	7.32	
ELTR7	Elymus trachycaulus	slender wheatgrass	22.7	5.3	45.12	
HECO26	Hesperostipa comata	needle & thread needlegrass	7.3	2.7	13.41	
LECI4	Leymus cinereus	basin wildrye	0.7	0.0	1.22	
NAVI4	Nassella viridula	green needlegrass	2.0	0.0	3.66	
PASM	Pascopyrum smithii	western wheatgrass	0.7	0.0	1.22	
POSE	Poa secunda	Sandberg bluegrass	0.7	0.0	1.22	
PSSPS	Pseudoroegneria spicata ssp. spicata	bearded bluebunch wheatgrass	0.7	0.0	1.22	Desirable Forb/Shrub
	• • •	Perennial Grass Totals	42.1	10.0	81.71	Density (#/m <sup>2</sup> )
ASCO12	Astragalus convallarius	lesser-rushy mlkvetch	0.0	0.0	0.00	0.10
ASSP6	Astragalus spatulatus	tufted milkvetch	0.0	0.0	0.00	0.03
CLSE	Cleome serrulata	Rocky Mtn. beeplant	0.0	0.0	0.00	0.03
HEBO	Hedysarum boreale	Utah sweetvetch	0.0	0.0	0.00	0.33
LEER	Leucelene ericoides	heath aster	0.0	0.0	0.00	0.07
MACA2	Machaeranthera canescens	hoary tansyaster	0.7	0.0	1.22	0.27
MESA	Medicago sativa	alfalfa	0.0	0.0	0.00	0.57
SPCO	Sphaeralcea coccinea	scarlet globemallow	0.7	0.0	1.22	0.73
	1	Desirable Forb Totals	1.4	0.0	2.44	2.13
ARTRW	Artemisia tridentata var. wyomingensis	Wyoming big sagebrush	0.0	0.0	0.0	0.13
ATCA2	Atriplex canescens	four-wing saltbush	2.7	0.7	4.88	0.37
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	0.7	0.0	1.22	0.00
GUSA2	Gutierrezia sarothrae	broom Snakeweed	0.0	0.0	0.0	0.10
KRLA2	Krascheninnikovia lanata	winterfat	0.0	0.0	0.0	0.07
		Shrub Totals	3.4	0.7	6.10	0.67
BRTE	Bromus tectorum	cheatgrass	0.7	0.0	1.22	
SATR12	Salsola tragus	Russian thistle	4.7	0.0	8.53	
	Totals for In	wasive and Non-Native Species	5.4	0.0	9.75	2.00
1.0		Vegetation Totals	52.3	10.7	100.00	2.80
		eter transects with 50 sample point 1 <sup>st</sup> plant species encountered in th		Percent	Ground Cover by	y Cover Type <sup>3</sup>

**Bare Ground** 

**Biotic Crust** 

Woody Litter

Duff

Rock

Herbaceous Litter

42.0

42.7

6.0

0.0

0.0

0.0

### Appendix E – Vegetation Sampling Data Reclaimed Corehole Pad G

from each transect. Foliar cover based upon 1st plant species encountered in the canopy at each sample point. Species composition based upon total of all plant species encountered at each sample point. <sup>2</sup> Sum of density data collected from 10 one-square meter quadrants along each transect. Only desirable forb and shrub densities were recorded based upon reclamation criteria. <sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of

ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.

	Table E2 - Canopy Gap Intercept Data         Reclaimed Corehole Pad G								
Canopy Gaps > 20 centimeters	Total of Gaps > 20 cm	Gaps 21-50 cm	Gaps 51-100 cm	Gaps 101-200 cm	Gaps >200 cm				
Transect 1	925	137	331	224	233				
Transect 2	1035	518	401	116	0				
Transect 3	1280	270	452	119	439				
Total Gaps (cm)	3240	925	1184	459	672				
% Line in Gaps	43.20	12.33	15.79	6.12	8.96				
Line length for each	transect was 25 me	eters for site total	length of 75 meter	rs					

	Table E3 - Transect CoordinatesReclaimed Corehole Pad G (Datum: UTM Zone 12, WGS 84)									
	Azimuth from	Transect Sta	rting Point	Transect En	ding Point					
Site	starting point (true N)	Northing (mN) Easting (mE) Northing (mN) Easting (mE)								
Transect 1	096 °	4424253.9	725308.6655	4424256.7	725332.0171	25 meters				
Transect 2	214 °	4424254.82	725302.3946	4424233.96	725288.3007	25 meters				
Transect 3	318 °	4424260.32	725304.1992	4424278.06	725287.7668	25 meters				



Figure E1 Transect 1 Reclaimed Corehole Pad G



Figure E2 Transect 2 Reclaimed Corehole Pad G



Figure E3 Transect 3 Reclaimed Corehole Pad G

# Appendix F – Vegetation Sampling Data Reclaimed Corehole Pad IRI-3, MW1, PW1, PW2

	Reclaimed Ex Plant Species Observed wit	ploration Corehole Pad IRI hin Study Area	1 ( <u> </u>	· · · · · ·	PW-2 ntercept Data <sup>1</sup>	Density Data <sup>2</sup>
Species			% Foliar	% Basal	Species	Density Data
Symbol	Scientific Name	Common Name	Cover	Cover	Composition	
ACHY	Achnatherum hymenoides	Indian ricegrass	1.3	0.7	1.98	
AGCR	Agropyron cristatum	crested wheatgrass	4.0	0.7	8.91	
ELTR7	Elymus trachycaulus	slender wheatgrass	11.3	0.7	18.81	
HECO26	Hesperostipa comata	needle & thread needlegrass	7.3	1.3	10.89	
NAVI4	Nassella viridula	green needlegrass	1.3	0.0	1.98	
PASM	Pascopyrum smithii	western wheatgrass	2.0	0.0	3.96	
POSE	Poa secunda	Sandberg bluegrass	0.7	0.0	0.99	
PSJU3	Psathyrostachys juncea	Russian wildrye	17.3	0.0	25.74	Desirable
THIN6	Thinopyrum intermedium	pubescent wheatgrass	9.3	2.0	14.85	Forb/Shrub
111110	Thinopyrum intermedium	Perennial Grass Totals	54.5	5.4	88.12	Density (#/m <sup>2</sup> )
ASCO12	Astragalus convallarius	lesser-rushy mlkvetch	0.0	0.0	0.00	0.20
CHAL	Chenopodium album	lambsquarter	0.0	0.0	0.00	0.17
EREA	Erigeron eatonii	Eaton's fleabane	0.0	0.0	0.00	0.07
LILE3	Linum lewisii	Lewis flax	0.0	0.0	0.00	0.07
MACA2	Machaeranthera canescens	hoary tansyaster	0.0	0.0	0.00	0.30
MAGR2	Machaeranthera grindelioides	rayless tansyaster	0.0	0.0	0.00	0.0
MESA	Medicago sativa	alfalfa	0.0	0.0	0.00	2.10
SPCO	Sphaeralcea coccinea	scarlet globemallow	0.0	0.0	0.00	0.07
5100	Sphaeraicea coceinea	Desirable Forb Totals	0.7	0.0	0.99	3.1
ARTRW	Artemisia tridentata var. wvomingensis	Wyoming big sagebrush	0.0	0.0	0.00	0.3
ATCA2	Atriplex canescens	four-wing saltbush	2.7	0.0	3.96	0.6
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	1.3	0.0	1.98	0.20
GUSA2	Gutierrezia sarothrae	broom Snakeweed	0.0	0.0	0.00	0.0
KRLA2	Krascheninnikovia lanata	winterfat	0.0	0.0	0.00	0.0
		Shrub Totals	4.0	0.0	5.94	1.24
BRTE	Bromus tectorum	cheatgrass	2.0	0.0	4.95	
	Totals for Inv	vasive and Non-Native Species	2.0	0.0	4.95	
		Vegetation Totals	61.2	5.4	100.0	4.3
from each t	ata from 3 randomly placed 25 me transect. Foliar cover based upon 1	st plant species encountered in th	e canopy at	Percent	Ground Cover by	Cover Type <sup>3</sup>
	e point. Species composition base	d upon total of all plant species en	ncountered		Bare Gro	und 16.
at each san		· 1 · 1			Biotic C	
	ensity data collected from 10 one-				Herbaceous Li	
	ble forb and shrub densities were				Woody Li	
	es are not cumulative with vegeta					Duff 0.
	er from the top layer thru the lowe		es for bare			ock 0.
ground hav	e no vegetative, litter or rock cove	er above the soil surface.			ĸ	U.K 0.

	Table F2 - Canopy Gap Intercept DataReclaimed Corehole Pad IRI-3, MW-1, PW-1, and PW-2									
Canopy Gaps > 20 centimeters	Total of Gaps > 20 cm	Gaps 21-50 cm	Gaps 51-100 cm	Gaps 101-200 cm	Gaps >200 cm					
Transect 1	707	289	418	0	0					
Transect 2	1246	502	528	216	0					
Transect 3	391	391	0	0	0					
Total Gaps (cm)	2344	1182	946	216	0					
% Line in Gaps	31.25	15.76	12.61	2.88	0.00					
Line length for each	transect was 25 me	eters for site total	length of 75 meter	rs						

Table F3 - Transect CoordinatesReclaimed Corehole Pad IRI-3, MW-1, PW-1, and PW-2(Datum: UTM Zone 12, WGS 84)									
	Azimuth from	Transect Sta	rting Point	Transect En	ding Point				
Site	ite starting point (true N) Northing (mN) Easting (mE) Northing (mN) Easting (mE)								
Transect 1	1 273 ° 4424252.81 724288.8793 4424255.13 724265.8046								
Transect 2	Transect 2         116°         4424258.97         724301.6981         4424258.07         724323.9613         25 m								
Transect 3	137 °	4424245.81	724304.0524	4424233.96	724323.9014	25 meters			



Figure F1 Transect 1 Reclaimed Pad IRI3, MW1, PW1, PW2 Figure F2 Transect 2 Reclaimed Pad IRI3, MW1, PW1, PW2



Figure F3 Transect 3 Reclaimed Pad IRI3, MW1, PW1, PW2

## Appendix G – Vegetation Sampling Data Reclaimed Corehole Pad IRI-10

Species Symbol	Plant Species Observed with					
	-	Line-Poin	nt Canopy I	<b>Density Data</b>		
SVIIIDOI	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition	
ACHY	Achnatherum hymenoides	Indian ricegrass	0.7	0.0	1.14	
AGCR	Agropyron cristatum	crested wheatgrass	33.3	8.0	61.36	
HECO26	Hesperostipa comata	needle & thread needlegrass	2.7	0.0	4.55	Desirable
THIN6	Thinopyrum intermedium	pubescent wheatgrass	3.3	0.7	6.82	Forb/Shrub
	<i>F</i> ,	Perennial Grass Totals	40.0	8.7	73.86	Density (#/m <sup>2</sup>
ARFR4	Artemisia frigida	fringed sage	0.0	0.0	0.0	0.0
ASCH	Astragalus chamaeleuce	cicada milkvetch	0.0	0.0	0.0	0.0
ASCO12	Astragalus convallarius	lesser-rushy mlkvetch	0.0	0.0	0.0	0.1
ASSP6	Astragalus spatulatus	tufted milkvetch	0.0	0.0	0.0	0.4
ERLO4	Eriogonum lonchophyllum	spearleaf buckwheat	0.0	0.0	0.0	0.0
HEBO	Hedysarum boreale	Utah sweetvetch	0.0	0.0	0.0	0.1
LILE3	Linum lewisii	Lewis flax	0.0	0.0	0.0	0.1
MAGR2	Machaeranthera grindelioides	rayless tansyaster	0.0	0.0	0.0	0.3
MESA	Medicago sativa	alfalfa	0.0	0.0	0.0	0.0
PHAC4	Physaria acutifolia	common twinpod	0.0	0.0	0.0	0.0
РННО	Phlox hoodii	Hood's phlox	1.3	0.7	2.27	0.8
SPCO	Sphaeralcea coccinea	scarlet globernallow	0.0	0.0	1.14	1.9
TAOF	Taraxacum officinale	dandielion	0.0	0.0	0.00	0.0
TRGY	Trifolium gymnocarpon	hollyleaf clover	0.0	0.0	0.00	0.0
		Desirable Forb Totals	1.3	0.7	3.41	4.2
ARTRW	Artemisia tridentata var. wyomingensis	Wyoming big sagebrush	2.7	0.7	5.68	0.1
ATCA2	Atriplex canescens	four-wing saltbush	2.7	0.7	4.55	0.0
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	2.7	0.7	4.55	0.2
GUSA2	Gutierrezia sarothrae	broom snakeweed	4.7	0.0	7.95	1.4
		Shrub Totals	12.8	2.1	22.73	1.8
	Totals for Inv	asive and Non-Native Species	0.0	0.0	0.00	
		Vegetation Totals	54.1	11.5	100.00	6.0
from each ti	ta from 3 randomly placed 25 met ransect. Foliar cover based upon 1	st plant species encountered in th	e canopy at	Percent	Ground Cover by	Cover Type <sup>3</sup>
	e point. Species composition based	l upon total of all plant species en	ncountered		Bare Grou	und 32
at each sam					Biotic Ci	
<sup>•</sup> Sum of de	nsity data collected from 10 one-s	quare meter quadrants along each	h transect.		Herbaceous Li	
	ble forb and shrub densities were				Woody Li	
	es are not cumulative with vegetat er from the top layer thru the lowe				· · · · · · · · · · · · · · · · · · ·	$\begin{array}{c c} \hline \\ \hline $

Table G2 - Canopy Gap Intercept Data **Reclaimed Corehole Pad IRI-10** Gaps >200 cm Gaps 101-200 **Canopy Gaps > 20 Total of Gaps** Gaps 21-50 Gaps 51-100 centimeters > 20 cm cm cm cm Transect 1 790 577 213 0 0 Transect 2 216 1168 533 419 0 Transect 3 0 767 523 244 0 Total Gaps (cm) 2725 1633 876 216 0 0.00 % Line in Gaps 36.33 21.77 11.68 2.88 Line length for each transect was 25 meters for site total length of 75 meters

ground have no vegetative, litter or rock cover above the soil surface.

2.0

Rock

	Table G3 - T	Reclaim	ates and Access ed Corehole Pac UTM Zone 12, V		t Locations	
	<b>Azimuth from</b>	Transect Sta	rting Point	Transect En	ding Point	
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length
Transect 1	210 °	4426682.46	725780.6252	4426659.8	725769.498	25 meters
Transect 2	270 °	4426683.03	725777.5301	4426676.68	725758.1388	25 meters
Transect 3	046 °	4426681.08	725786.651	4426702.65	725798.4089	25 meters
Access Rout	e/Photo-point Loc	ation	-			
Photo	o-point # 1	4426613.174	725770.966			
Photo	p-point # 2	4426453.708	725897.45			
Photo	o-point # 3	4426324.036	726174.143			
Photo	o-point # 4	4426246.573	726278.195			

### **Transect Photos and Route Photos**



Figure G1 Transect 1 Reclaimed Corehole Pad IRI-10



Figure G2 Transect 2 Reclaimed Corehole Pad IRI-10



Figure G3 Transect 3 Reclaimed Corehole Pad IRI-10



Figure G4 Photo Point 1 - Access Road to Corehole Pad IRI-10



Figure G5 Photo Point 2 - Access Road to Corehole Pad IRI-10

Figure G6 Photo Point 3 - Access Road to Corehole Pad IRI-10

**Figure G7** Photo Point 4 - Access Road to Corehole Pad IRI-10

# Appendix H – Vegetation Sampling Data Reclaimed Corehole Pad Q

	Plant Species Observed with	in Study Area	Line-Poi	nt Canopy I	ntercept Data <sup>1</sup>	Density Data
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition	
ACHY	Achnatherum hymenoides	Indian ricegrass	5.3	1.3	7.27	
ELLAL	Elymus lanceolatus	thickspike wheatgrass	1.3	0.0	1.82	
ELTR7	Elymus trachycaulus	slender wheatgrass	6.7	2.7	11.82	
HECO26	Hesperostipa comata	needle & thread needlegrass	14.0	3.3	20.91	
LECI4	Leymus cinereus	basin wildrye	0.7	0.0	0.91	
NAVI4	Nassella viridula	green needlegrass	8.0	2.0	11.82	
PASM	Pascopyrum smithii		1.3			
	**	western wheatgrass		0.0	1.82	
PSJU3	Psathyrostachys juncea	Russian wildrye	1.3	1.3	1.82	
	Pseudoroegneria spicata ssp.	beardless bluebunch				Desirable
PSSPI	inermis	wheatgrass	1.3	0.0	1.82	Forb/Shru
		Perennial Grass Totals	39.9	10.6	60.01	Density (#/m
ARFR4	Artemisia frigida	fringed sage	6.0	0.0	8.18	1.
ASCO12	Astragalus convallarius	lesser-rushy mlkvetch	0.0	0.0	0.0	0.
CHAL	Chenopodium album	lambsquarter	0.0	0.0	0.0	0.
LILE3	Linum lewisii	Lewis flax	0.0	0.0	0.0	0.
/IAGR2	Machaeranthera grindelioides	rayless tansyaster	0.0	0.0	0.0	0.
MACA2	Machaeranthera canescens	hoary tansyaster	0.0	0.0	0.0	0.
<b>MESA</b>	Medicago sativa	alfalfa	0.7	0.7	0.91	0.
PEPA8	Penstemon palmeri	Palmer's beardtongue	0.0	0.0	0.0	0.
SPCO	Sphaeralcea coccinea	scarlet globemallow	0.0	0.0	0.0	1.
		<b>Desirable Forb Totals</b>	6.7	0.7	9.09	4.
ARTRW	Artemisia tridentata var . wyomingensis	Wyoming big sagebrush	2.0	0.0	2.73	0.
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	4.7	0.0	6.36	0.
GUSA2	Gutierrezia sarothrae	broom Snakeweed	2.0	0.0	6.36	0.
KRLA2	Krascheninnikovia lanata	winterfat	0.7	0.0	0.91	0.
		Shrub Totals	9.4	0.0	16.36	1.
BRTE	Bromus tectorum	cheatgrass	3.3	0.0	8.18	
SATR12	Salsola tragus	Russian thistle	4.7	0.0	6.36	
	Totals for Inv	asive and Non-Native Species	8.0	0.0	14.54	
		Vegetation Totals	64.0	11.3	100.0	5.
Sum of da	ta from 3 randomly placed 25 met			11.5	100.0	
rom each t	ransect. Foliar cover based upon 1	st plant species encountered in th	e canopy at	Percent (	Ground Cover by	v Cover Type
	e point. Species composition based	i upon total of all plant species ef	ncountered		Bare Gro	ound 1'
t each sam					Biotic C	rust
Sum of de	ensity data collected from 10 one-s	quare meter quadrants along each	h transect.		Herbaceous L	
	ble forb and shrub densities were i				Woody L	
	es are not cumulative with vegetati					
	er from the top layer thru the lower e no vegetative, litter or rock cover		s for bare			Duff ( Rock (

Table H2 - Canopy Gap Intercept Data         Reclaimed Exploration Pad Q									
Canopy Gaps > 20 centimetersTotal of Gaps > 20 cmGaps 21-50 cmGaps 51-100 cmGaps 101-200 cmGaps >200 cm									
Transect 1	1102	422	497	183	0				
Transect 2	1008	509	150	349	0				
Transect 3	1067	274	200	230	363				
Total Gaps (cm)	3177	1205	847	762	363				
% Line in Gaps	42.36	16.07	11.29	10.16	4.84				
Line length for each	Line length for each transect was 25 meters for site total length of 75 meters								

	Table H3 - Transect CoordinatesReclaimed Exploration Pad Q(Datum: UTM Zone 12, WGS 84)							
	Azimuth from         Transect Starting Point         Transect Ending Point							
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length		
Reclaimed V	Vell Pad 5H-1V	-						
Transect 1	146 °	4425021.08	723527.9977	4425000.07	723542.7245	25 meters		
Transect 2	203 °	4425022.41	723520.3477	4425000.59	723511.1536	25 meters		
Transect 3	267 °	4425024.64	723520.6243	4425027.58	723495.8239	25 meters		



Figure H1 Transect 1 Reclaimed Corehole Pad Q



Figure H2 Transect 2 Reclaimed Corehole Pad Q



Figure H3 Transect 3 Reclaimed Corehole Pad Q

## Appendix I – Vegetation Sampling Data Reclaimed Access Route to Corehole Pad Q

	Table I1 - Vegetation	Cover, Species Composition Reclaimed Access Route		ensity & G	round Cover	
	Plant Species Observed with		Line-Point Canopy Intercept Data <sup>1</sup>			
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition	
ACHY	Achnatherum hymenoides	Indian ricegrass	30.7	8.0	51.69	
BOGR2	Bouteloua gracilis	blue grama	0.0	0.0	1.12	
ELLAL	Elymus lanceolatus	thickspike wheatgrass	0.7	0.7	1.12	
ELTR7	Elymus trachycaulus	slender wheatgrass	4.0	1.3	10.11	
HECO26	Hesperostipa comata	needle & thread needlegrass	1.3	0.0	2.25	
LECI4	Leymus cinereus	basin wildrye	0.7	0.0	1.12	Desirable
NAVI4	Nassella viridula	green needlegrass	0.7	0.0	1.12	Forb/Shrub
		Perennial Grass Totals	38.1	10.0	68.54	Density (#/m <sup>2</sup> )
ARFR4	Artemisia frigida	fringed sage	0.7	0.0	1.12	0.23
ASCH	Astragalus chamaeleuce	cicada milkvetch	0.0	0.0	0.00	0.10
ASCO12	Astragalus convallarius	lesser-rushy mlkvetch	0.7	0.0	2.25	0.03
CIBA	Cirsium barnebyi	Barneby's thistle	0.7	0.0	1.12	0.07
CRFL6	Cryptantha flavoculata	roughseed cryptanth	0.0	0.0	0.00	0.10
ERCO4	Erigeron compositus	cutleaf daisy	0.7	0.0	1.12	0.07
ERLO4	Eriogonum lonchophyllum	spearleaf buckwheat	2.0	0.0	3.38	0.20
EUFE	Euphorbia fendleri	Fendler spurge	0.0	0.0	0.00	0.10
HEBO	Hedvsarum boreale	Utah sweetvetch	0.7	0.0	1.12	0.03
LILE3	Linum lewisii	Lewis flax	0.0	0.0	0.00	0.10
LUAR3	Lupinus argenteus	silvery lupine	2.0	0.0	3.37	0.17
MAGR2	Machaeranthera grindelioides	rayless tansyaster	2.0	0.0	3.37	0.67
MUMU2	Mentzelia multicaulis	manystem blazingstar	0.0	0.0	0.00	0.27
MESA	Medicago sativa	alfalfa	2.7	0.7	4.49	3.40
PEPA8	Penstemon palmeri	Palmer's beardtongue	0.0	0.0	0.00	0.07
SPCO	Sphaeralcea coccinea	scarlet globemallow	0.0	0.0	0.00	0.13
		Desirable Forb Totals	12.2	0.7	21.34	5.74
ARTRW	Artemisia tridentata var. wyomingensis	Wyoming big sagebrush	0.0	0.0	0.00	0.03
ATCA2	Atriplex canescens	four-wing saltbush	1.3	0.0	2.25	0.10
ATCO	Atriplex confertifolia	shadscale saltbush	0.0	0.0	0.00	0.03
CHVI8	Chrysothamnus viscidiflorus	yellow rabbitbrush	1.3	0.0	2.25	0.10
GUSA2	Gutierrezia sarothrae	broom Snakeweed	1.3	0.0	3.38	0.33
PUTR2	Purshia tridentata	antelope bittrebrush	0.7	0.0	1.12	0.00
TECA2	Tetradymia canescens	spineless horsebrush	0.7	0.0	1.12	0.13
		Shrub Totals	5.3	0.0	10.12	0.72
SATR12 <sup>3</sup>	Salsola tragus	Russian thistle	0.0	0.0	0.0	
	Totals for Inv	asive and Non-Native Species	0.0	0.0	0.0	
		55.6	10.7	100.0	6.46	
from each t	ta from 3 randomly placed 25 met ransect. Foliar cover based upon 1	st plant species encountered in th	s collected e canopy at		Ground Cover by	
	e point. Species composition based	upon total of all plant species en	ncountered		Bare Gro	ound 31.3
at each sam					Biotic C	
	nsity data collected from 10 one-s				Herbaceous L	
	ble forb and shrub densities were i				Woody L	
<sup>3</sup> Plant spec	ies not encountered in sampling da	ata but were present within the st	udy area.		Woody L	2.1

Only desirable forb and shrub densities were recorded based upon reclamation criteria. <sup>3</sup> Plant species not encountered in sampling data but were present within the study area. <sup>4</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.

Duff

Rock

0.0

2.7

Table I2 - Canopy Gap Intercept Data         Reclaimed Access Route to Pad Q								
Canopy Gaps > 20 centimetersTotal of Gaps > 20 cmGaps 21-50 cmGaps 51-100 cmGaps 101-200 cmGaps >200 cm								
Transect 1	1076	344	508	224	0			
Transect 2	1271	134	599	107	431			
Transect 3	1125	238	777	110	0			
Total Gaps (cm)	3472	716	1884	441	431			
% Line in Gaps	46.29	9.55	25.12	5.88	5.75			
Line length for each transect was 25 meters for site total length of 75 meters								

Table I 3 - Transect CoordinatesReclaimed Access Route to Pad Q (Datum: UTM Zone 12, WGS 84)								
	Azimuth from Transect Starting Point Transect Ending Point							
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length		
Transect 1	046 °	4424841.8	723154.4117	4424862.94	723162.943	25 meters		
Transect 2	067 °	4425070.1	723255.9875	4425086.87	723270.8888	25 meters		
Transect 3	160 °	4425143.17	723394.9457	4425120.26	723401.6891	25 meters		



Figure I 1 - Transect 1 Reclaimed Access Route to Corehole Pad Q Figure I 2 - Transect 2 Reclaimed Access Route to Corehole Pad Q





Figure I 3 Transect 3 Reclaimed Access Route to Corehole Pad Q

# Appendix J – Vegetation Sampling Data Reclaimed Corehole Pad U

	Table J1 - Vegetation	n Cover, Species Composition Reclaimed Exploration Co	· •	•	round Cover		
	Plant Species Observed wit				ntercept Data <sup>1</sup>	Density Data	
Species Symbol	Scientific Name	Common Name	% Foliar Cover	% Basal Cover	Species Composition		
ACHY	Achnatherum hymenoides	Indian ricegrass	1.3	1.3	2.86		
ELTR7	Elymus trachycaulus	slender wheatgrass	1.3	0.7	4.29		
HECO26	Hesperostipa comata	needle & thread needlegrass	4.0	0.7	8.57		
PASM	Pascopyrum smithii	western wheatgrass	7.3	0.0	17.14	Desirable	
POSE	Poa secunda	Sandberg bluegrass	0.7	0.0	1.43	Forb/Shrub	
		Perennial Grass Totals	14.6	2.7	34.29	Density (#/m	
ARDR4	Artemisia dracunculus	tarragon	0.0	0.0	0.00	0.0	
CHAL	Chenopodium album	lambsquarter	0.7	0.0	1.43	0.0	
MESA	Medicago sativa	alfalfa	2.0	0.0	4.28	1.9	
		Desirable Forb Totals	2.7	0.0	5.71	1.9	
ARTRT	Artemisia tridentata var. tridentata	basin big sagebrush	0.0	0.0	0.0	0.0	
CHDE2	Chrysothamnus depressus	longflower rabbitbrush	0.7	0.0	1.43	0.	
CHVI8	Chrysothamnus viscidiflorus	vellow rabbitbrush	12.0	0.7	25.71	0.	
GUSA2	Gutierrezia sarothrae	broom Snakeweed	0.7	0.0	1.4	0.	
SAVE4	Sarcobatus vermiculatus	greasewood	4.0	0.0	8.6	0.	
		Shrub Totals	17.4	0.7	37.14	1.	
SATR12	Salsola tragus	Russian thistle	10.7	0.0	22.86		
	Totals for In	vasive and Non-Native Species	10.7	0.0	22.86		
		Vegetation Totals	45.4	3.4	100.0	2.	
from each t	ransect. Foliar cover based upon	eter transects with 50 sample point 1 <sup>st</sup> plant species encountered in th	e canopy at	Percent	Ground Cover by	y Cover Type	
each sample point. Species composition based upon total of all plant species encountered at each sample point.					Bare Ground 36		
		squara mater quadrants along and	a transact		Biotic C	rust (	
<sup>2</sup> Sum of density data collected from 10 one-square meter quadrants along each transect. Only desirable forb and shrub densities were recorded based upon reclamation criteria.					Herbaceous Litter 3		
					Woody L	itter (	
<sup>3</sup> Percentages are not cumulative with vegetation totals, rather a measure by layer of ground cover from the top layer thru the lower layers to the soil surface. Values for bare						Duff (	
ground cover from the top layer thru the lower layers to the soil surface. Values for bare ground have no vegetative, litter or rock cover above the soil surface.						Rock (	

Table J2 - Canopy Gap Intercept Data         Reclaimed Exploration Corehole Pad U								
Canopy Gaps > 20 centimeters								
Transect 1	1401	161	894	122	224			
Transect 2	1832	125	399	750	558			
Transect 3	1906	97	484	458	867			
Total Gaps (cm)	5139	383	1777	1330	1649			
% Line in Gaps	% Line in Gaps 68.52 5.11 23.69 17.73 21.99							
Line length for each	transect was 25 me	eters for site total	length of 75 meter	rs				

	Table J3 - Transect CoordinatesReclaimed Exploration Corehole Pad U(Datum: UTM Zone 12, WGS 84)							
Azimuth from         Transect Starting Point         Transect Ending Point								
Site	starting point (true N)	Northing (mN)	Easting (mE)	Northing (mN)	Easting (mE)	Length		
Transect 1	160 °	4426867.86	723262.5429	4426844.37	723272.1234	25 meters		
Transect 2	100 °	4426875.01	723263.8722	4426876.53	723289.0489	25 meters		
Transect 3	014 °	4426874.24	723260.2186	4426898.08	723262.5117	25 meters		



Figure J1 Transect 1 Reclaimed Corehole Pad U



Figure J2 Transect 2 Reclaimed Corehole Pad U



Figure J3 Transect 3 Reclaimed Corehole Pad U