

Electronic Report Transmittal Form

Attention: Brendan Kenny (916) 464-4635

Discharger: Wild Wings County Service Area
Name of Facility: Wild Wings Water Recycling Facility
WDRs Order Number: R5-2002-0077
CIWQS Place 1D: 272537
County: Yolo

I am hereby submitting to the Central Valley Water Board the following information:

Check all that apply: Wild Wings Water Recycling Facility – First Quarter 2021
Groundwater Monitoring Report
WDR Order No. R5-2002-0077
August 2020

Technical Report Title and Date _____

Monthly Monitoring Report for the month of N/A

1st / 2nd / 3rd / 4th (circle one) Quarterly Monitoring Report for the year of 2021

1st/ 2nd (circle one) Semi-annual Monitoring Report for the year N/A

Annual Monitoring Report for the year N/A

Violation Notification:

During the monitoring period, there were / were not (circle one) any violations of the WDRs

1. The violations were:
TDS, Chloride, Boron, Nitrates, Total Nitrogen

2. Have the violations been corrected? Yes / No. If no, what will be done to correct the violations:
Boron normally exceeds WDR levels; other constituents in exceedance have historically fluctuated slightly above WDR levels.

Certification Statement:

"I certify under penalty of law that I have personally examined and am familiar with the Information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Signature: _____ Phone: _____

Printed Name: _____ Date: _____

**Wild Wings Water Recycling Facility – First Quarter 2021
Groundwater Monitoring Report
WDR Order No. R5-2002-0077**

Prepared for:

Yolo County, California



March 31, 2021

Prepared by:

California Rural Water Association



California
Rural Water Association



California

Rural Water Association

May 20, 2021

Ms. Kimberly Villa
Yolo County
625 Court Street,
Room 202
Woodland, CA 95695

VIA Email.

Re: Groundwater Monitoring Report First Quarter 2021
Wild Wings Water Recycling Facility, Yolo County, CA WDR No. R5-2002-0077

Dear Ms. Gabor:

California Rural Water Association is pleased to present this report as a summary of the Groundwater Monitoring Data from the First Quarter of 2021.

If you have any questions regarding this report, please call our Senior Hydrogeologist, Thomas Ballard, CHG, at (916) 761-3700 or Dan DeMoss at (916) 553-4900.

Sincerely,
California Rural Water Association

Dan DeMoss
Executive Director

A handwritten signature in blue ink that reads "Thomas Ballard".

Thomas Ballard
Senior Hydrogeologist

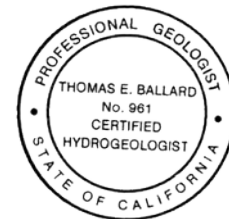


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1.0 INTRODUCTION

California Rural Water Association (CRWA) prepared this groundwater monitoring report on behalf of Yolo County for the Wild Wings Water Recycling Facility (WWRF) at the Wild Wings residential development, in Yolo County, California. This report represents and summarizes data collected and analyzed by CRWA, in conjunction with contract laboratory work, in December 2021; and also includes historical data and information from previous reports, consultants and laboratories.

Yolo County requested that CRWA provide groundwater monitoring and reporting for the WWRF to comply with Regional Water Quality Control Board (RWQCB) Waste Discharge Requirements (WDR) Order R5-2002-0077. The WDR requires quarterly monitoring and reporting of the groundwater levels and quality at the monitoring wells. National, under contract with Yolo County, began operating the WWRF on April 1, 2016. CRWA performed the groundwater monitoring at the site on March 1 and 3, 2021 and the groundwater sample collection on March 2 and 4, 2021.

1.1 LOCATION

The Wild Wings development is located north of Highway 16 and west of County Road 94B at 18530 Wildwings Drive, Woodland, CA 95695, and is surrounded by agricultural land to the west, Cache Creek and the Yolo Fliers Golf Club to the north, the Watts-Woodland Airport to the east, and several rural residences to the south. In early 2015, almond orchards were planted in the agricultural land to the west of the site and water wells were installed to provide water for the orchards. The WWRF encompasses 3.67 acres (400 by 400 feet) along the southwestern side of the Wild Wings development. Figure 1 shows the location of the WWRF along with general site information and locations of seven (7) monitoring wells.

1.2 SITE INFORMATION

The Wild Wings development consists of over 300 homes, a nine-hole golf course (including several ponds/lakes), and the WWRF, all built on 238 acres of previously undeveloped land. The WWRF has been operating since February 2005. Domestic wastewater from the Wild Wings development is treated to a tertiary level at the WWRF. The treated water is then blended with groundwater obtained from two deep on-site water supply wells and is used for irrigation of the golf course. The mixture of applied irrigation water typically consists of approximately one-fourth recycled water, but this ratio will vary by month. When irrigation demands are reduced, a lined storage pond on the WWRF site stores the recycled water. National does not operate or maintain the golf course irrigation system or ponds on the golf course.

1.3 MONITORING WELLS

Seven monitoring wells, MW-1 through MW-7, were constructed in May through June 2004. The monitoring wells were installed on the Wild Wings development in the vicinity of the WWRF. The locations of the monitoring wells are shown on Figure 1.

The WDR required that the monitoring wells be constructed to monitor the uppermost aquifer. While drilling, soil samples were collected to assess the subsurface lithology and to locate the uppermost aquifer. Review of the well logs shows that clays with various amounts of silt, sand, and gravel are predominant at the site. However, beds of coarse-grained materials, sands and gravels, with trace amounts of silt and clay were also logged at all monitoring well sites.

The monitoring wells were completed to depths ranging from 31 to 74 feet below ground surface (bgs). Each well is constructed with 2-inch schedule 40 PVC well casing and screen. The screen intervals are 10 feet in length at most wells, with the exception of MW-4 and MW-5R, which have 15-foot and 20-foot screen intervals, respectively. The top of each well casing is fitted with an expandable plug to prevent surface water from entering the wells. The top of each well is secured in a subsurface vault. Table 1 summarizes the well construction details. The well screens are not at the same depth in all of the monitoring wells. The depths varied based on when groundwater was first encountered. Thick clay beds were encountered at MW-4 and MW-5R and continued to relatively deep depths. MW-4 and MW-5R have deeper screen intervals than the other monitoring wells, ranging from an elevation of 51 to 71 feet mean sea level (msl). In contrast, MW-1, MW-2, MW-6, and MW-7 are screened at shallower depths, between 73 to 95 feet msl. MW-3 has the shallowest screen interval ranging from an elevation of 90 to 100 feet msl.

The lithologic sequences of strata encountered during well drilling show a heterogeneous appearance across the site making lateral geologic correlation difficult on a site scale (Luhdorff and Scalmanini, 2006). Furthermore, the uppermost water-bearing zone in which all monitoring wells are screened has weak to no lateral continuity across the site based on the lithologic logs. Based on evaluation of the lithology and well construction details, the consistent anomalously high groundwater elevations, and analytical results from previous monitoring reports, MW-3 appears to be screened in a perched water zone and not within the unconfined to semi-confined aquifers in which the other monitoring wells are screened. Therefore, groundwater in MW-3 does not appear to be in direct hydraulic communication with the other network wells.

1.4. SAMPLING PUMP DETAILS

Sampling and purging of the monitoring wells is accomplished with the use of a low flow electric submersible pump powered by portable battery system. Plastic tubing, which is disinfected prior to purging, between purging and sampling and after sampling, is used to conduct both the purging of the well and collection of groundwater samples. The pump is portable and is transported between wells.

1.5 HISTORIC MONITORING RESULTS

The WWRF has been active since February 2005. The WDR required that three monitoring events take place prior to the startup of the WWRF; however, only one monitoring event was performed. Quarterly monitoring commenced in March 2005. Historic monitoring results are summarized below:

- Groundwater levels have ranged from 19.7 to 56.7 feet below top of casing (btoc) or 64.0 to 101.7 feet mean sea level (msl). Groundwater has consistently been the shallowest at MW-3 and the deepest at MW-4. Since the fourth quarter 2008 MW-7 has been dry about 75 percent of the sampling events and was dry from the third quarter 2013 until the first quarter of 2017 and the last two quarters – corresponding to the California regional drought conditions. Table 2 summarizes the historic groundwater levels and Figure 2 displays a line graph of these historical groundwater levels.
- Groundwater flow direction has been consistently towards the northeast to east-northeast. Using MW-1, MW-4, and MW-5R to determine flow direction and gradient, the flow direction has varied from 53.3 to 90.3 degrees and the groundwater gradient has ranged from 0.005 to 0.009 ft./ft. The gradient has gradually steepened and the flow direction has changed to a more easterly direction since monitoring started in 2005. The most recent monitoring event in March 2021 indicates a 3-point gradient of 0.008 ft./ft. and a direction of 71.2 degrees. Table 3 summarizes historic groundwater flow directions and gradients.
- MW-1 has been consistently up-gradient of the recycled water effluent pond, whereas MW-4, MW-6, and MW-7 have consistently been down-gradient of the recycled water effluent pond. MW-2 is located adjacent to the recycled water effluent pond. MW-5R appears to be an up-gradient well that is recharged from Cache Creek, but is slightly down-gradient to the recycled water effluent pond.
- MW-3 has consistently had higher groundwater surface elevations than the other monitoring wells. Because of this, supplemented by the shallow screen interval, poor recharge, persistent presence of total coliform organisms as well as an overall different water quality than the other wells, and often gray to tan color of the water, MW-3 appears to be screened in a perched water zone. This perched or mounded water table appears prominently in the August 2017 data – but the November 2017 data did not look as pronounced. More recent data has been varied.
- The WDR requires that monitoring wells be sampled and analyzed for the following constituents: pH, total dissolved solids (TDS), sodium, chloride, boron, iron, manganese, nitrate (as nitrogen), nitrite (as nitrogen), ammonia (as nitrogen), total nitrogen, total coliform organisms, and total trihalomethanes (TTHMs). In addition to the WDR requirements, samples collected up to February 2008 were analyzed for fecal coliform. Historical monitoring results are

summarized in Table 4. Charts 1 through 8 show concentration trend graphs for the monitoring parameters.

- Metals analyses are required from the monitoring wells. Sampling protocol requires that the turbidity be below 5 Nephelometric Units (NTU) when collecting water samples for metal analyses, otherwise the sample must be filtered prior to being collected and reported as dissolved metals. Due to historical issues with turbidity and purging, the sampling protocol for Q4 2017 was adopted to field filter and continued forward.
- Total coliform organisms have been sporadically detected at all wells since monitoring commenced. They have been most consistently detected at MW-3, which also has had positive results for fecal bacteria; however, since the second quarter 2013, total coliform organisms at MW-3 have only been detected four times. MW-3 has had past worm-like organisms and has been treated with disinfection products. Recently, no organisms have been visible and the Q3 sampling event had no detections for disinfection by-products, as analyzed for TTHM's.
- Groundwater quality samples were not obtained from MW-7 between November 2006 and November 2016, except for May and August 2011, due to either the well being dry or an insufficient amount of water in the well to collect samples. Since the wet weather in winter 2016 -2017, sufficient amounts of sample water from MW-7 have been retrieved for laboratory analyses – Until November 2017. In November 2017, there was not sufficient water to purge in MW-7 to collect samples and perform laboratory analyses. Again, in February 2018, there was insufficient water in MW-7 for sample collection.
- Groundwater quality analytical results were not available for the fourth quarter 2006 (except for total coliform results), first quarter 2007, and first quarter 2008.
- MW-2 has had historical security issues related to soils and foreign water entering the well vault. Previous reports contain details of this issue.

1.6 GROUNDWATER QUALITY LIMITATIONS

Interim Groundwater Limitations

Borings HB-2, HB-3, HB-7, and B-27 were drilled prior to the startup of the WWRF and within the vicinity of the WWRF. Water samples collected from these borings were used as the background water quality, using the average value for each constituent. Interim groundwater limitations for the WWRF were developed by comparing the basin plan Water Quality Objectives (WQOs) and background water quality data and using the highest value as the interim groundwater limitation. The interim groundwater limitations are listed at the top of Table 4.

The following summarizes how the WWRF monitoring wells have historically compared to the interim groundwater limitations:

- Boron has exceeded the interim groundwater limitations at all wells since quarterly monitoring commenced. Down-gradient monitoring wells MW-2 and MW-6 have had higher concentrations than up-gradient well MW-1.
- Up-gradient MW-1 is typically at or exceeding the interim groundwater limitations for TDS, chloride, nitrate (as nitrogen), and total nitrogen. Historically the TDS is higher at MW-1 than at any other well in the monitoring well network.
- MW-2, the closest well to the WWRF, regularly exceeded the interim groundwater limitations for total nitrogen prior to 2008, from 2008 through 2016 total nitrogen had been less than the interim limitations. But since 2017, is again above the interim limit. Since Q1 2018, MW-2 depicts higher nitrate and total nitrogen than the recent past, although nitrate detections are subject to wide swings. Prior to the fourth quarter 2013 the interim groundwater limitations were occasionally exceeded for sodium at MW-2, but since this time they have been below the interim groundwater limitations, until June 2017 when they again were slightly above the interim limit. Sodium in MW-2 has declined in recent sampling events but remains barely above the interim standard. Chloride levels at MW-2 exceeded the interim groundwater limitations from the fourth quarter 2010 through the first quarter 2012, but since this time the levels have been less than the interim limitations.
- Quarterly monitoring results at cross-gradient MW-5R and down-gradient MW-4, MW-6, and MW-7 have rarely exceeded the interim groundwater limitations for any constituent (except boron), with the exception of chloride and total nitrogen at MW-4 and sodium at MW-6 (with some exceptions).

Final Groundwater Limitations

On January 8, 2008, the RWQCB requested Yolo County prepare a Background Groundwater Quality Study/Groundwater Degradation Assessment Report to establish statistically derived water quality limitations. Central Valley Environmental, Incorporated (CVEI) prepared a Background Groundwater Quality Study/Groundwater Degradation Assessment Report dated April 1, 2009. Yolo County submitted the report to the RWQCB. CVEI used statistical methods to derive tolerance intervals representing the 95th quantile of all water quality sampling results from 2004 through February 2009. CVEI used these values in conjunction with the WQOs, using the greater of the two, to recommend Final Groundwater Limitations. Approval of the Final Groundwater Limitations by the RWQCB is still pending. However, since 2009 the sample population has more than doubled and therefore the analyses may be outdated.

2.0 GROUNDWATER MONITORING AND SAMPLING

Groundwater monitoring was performed on March 1 and 3, 2021 and sample collection on March 2 and 4, 2021 by CRWA personnel experienced with groundwater sampling. The

following sections describe the monitoring protocol used to measure the depth to water, purge the wells, and collect water quality samples from the monitoring wells.

2.1 GROUNDWATER LEVELS

CRWA personnel measured the depth to groundwater at the monitoring wells using an electric water level sounder accurate to 0.01 foot. The sounder was cleaned and decontaminated prior to the first monitoring well measurement and between each well site by thoroughly washing and scrubbing the sounding probe and line with a laboratory-grade detergent (Alconox) and distilled water, followed by a triple rinse with distilled water. The sounding probe and line was then sprayed with a 10 percent bleach solution to kill any bacteria. The sounding probe was allowed to air dry between wells.

2.2 PRE-SAMPLING ACTIVITIES

After the depth to groundwater was measured at a monitoring well, the well was purged. Each monitoring well was purged through the use of a portable low flow submersible pump. Prior to purging, the top 6 inches of the polyethylene tubing was decontaminated. The polyethylene tube was then connected to a vinyl tube via a double-barbed nipple and the vinyl tubing was routed to an empty 5-gallon bucket. The double-barbed nipple and vinyl tubing were cleaned and decontaminated prior to initial use and between each well (primary disinfection). The procedures for cleaning and decontaminating are the same as listed above (Groundwater Levels) except the vinyl tubing received six rinses with distilled water after cleaning.

Prior to collecting the groundwater samples, each monitoring well was micro purged (verbal approval, RWQCB 2008). Micro purging consisted of pumping each well until field parameters such as pH, temperature, and EC stabilized. Field parameters were measured by collecting purge water from the discharge line at select intervals and using a calibrated multi-parameter meter to record the readings. The volume purged and field parameters are documented on field data sheets, which are presented in Appendix A. The purge water was collected in 5-gallon buckets and then transported back to the WWRF and discharged to the wastewater holding tanks.

2.3 GROUNDWATER SAMPLING

Once each monitoring well was purged, CRWA personnel collected water samples in laboratory-prepared bottles. Prior to collecting the first sample, the vinyl tube connected to the 5-gallon bucket was disconnected from the bucket and the tip was sprayed with a 10 percent bleach solution to kill any bacteria that may have been present in the bucket and inadvertently transferred to the sampling tube (secondary disinfection). To eliminate any residual chlorine, pumping was then resumed for about 30 to 60 seconds (approximately 0.25 to 0.5 gallons) and the end of the vinyl tube was elevated and pinched so that the entire tubing surface was in contact with the purge water prior to sampling. The bacteriological (total coliform) sample was the first sample collected and was collected directly from the end of the vinyl tube, followed by

collection of samples for TTHMs. The samples for all other constituents analyzed were collected next. Water samples for metals were filtered in the field using a disposable 0.45-micron filter before being placed into acidified laboratory prepared sample bottles. Trip blanks are included by CLS for TTHM's analysis, when requested.

Nitrile gloves were worn while collecting samples. A new set of gloves was used at every monitoring well. The samples were placed in an ice chest and cooled to 4 degrees Celsius and delivered to California Laboratory Services (CLS) of Rancho Cordova, California, a California-certified laboratory, under standard chain-of-custody procedures. Samples collected from the monitoring wells were analyzed for TDS, sodium, boron, iron, manganese, nitrate (as N), nitrite (as N), ammonia (as N), total N, total coliform organisms, and total trihalomethanes per the WDR requirements. Table 4 presents the results for the monitoring wells and Table 5 presents the results for any trip blank and equipment blank samples. Appendix A presents the field data sheets and Appendix B contains the laboratory data sheets and chain-of-custody forms.

2.4 GROUNDWATER LEVELS AND FLOW DIRECTION

The measured groundwater levels in each well were subtracted from the surveyed ground surface elevation at each well. Table 2 lists the elevation of the top of the well casing (TOC) (reference point) at each well and presents the current and historic depths-to-water and groundwater surface elevations. The groundwater surface elevations were used to generate groundwater contours from which the groundwater gradient was calculated. Figure 2 shows the groundwater contours and flow direction for March 2021. Groundwater gradients and flow directions were estimated using wells MW-1, MW-4, and MW-5R. Table 3 summarizes these estimates.

3.0 FINDINGS

3.1 GROUNDWATER LEVELS

Groundwater elevations in March 2021 (First Quarter 2021) ranged from 68.13 feet msl in MW-4 to 95.4 feet msl in MW-3, all within historical ranges. Monitoring well MW-1 showed the greatest change in groundwater levels this quarter, with a decrease of 0.52 feet from the prior quarter. Water levels have been impacted by a drier than normal winter season. Table 2 lists the water level measurements. Chart 1 shows the current and historic groundwater levels.

Due to MW-3 being screened within a perched water zone it was left out of groundwater contouring, flow direction, and gradient calculations.

Between the Fourth Quarter of 2020 and First Quarter of 2021, groundwater levels dropped an average of 0.222 feet – a continued unusual trend for the winter season which reflects a dryer than normal weather pattern for this time of year. Based on the generalized pattern of rainfall and groundwater levels in the area, the trends in those two parameters tend to correlate.

There is generally a strong correlation between precipitation/recharge with water levels in the shallow groundwater zone.

3.2 GROUNDWATER FLOW DIRECTION AND GRADIENT

The groundwater flow direction and gradient for March 2021 were calculated using wells MW-1, MW-4, and MW-5R, which is consistent with past practice and historically reported data. Using these wells, the groundwater flow direction was to the east-northeast (71.2 degrees) with a gradient of 0.008 feet/feet. The groundwater gradient is generally consistent with historic results. Figure 2 displays the groundwater surface elevations at each well, the groundwater contours, and flow direction. In the northern portion of the site the groundwater flow direction appears to be influenced by Cache Creek. Table 3 lists the historic and current groundwater flow directions and gradients.

3.3 GROUNDWATER QUALITY

Tables 4 and 5 summarize the analytical results in table format and Charts 2 through 8 show the historical water quality parameter concentrations in graphical format.

Current (First Quarter 2021) water quality results were compared to historic water quality results to assess potential increasing trends. Overall, the water quality analytical testing results for the First Quarter of 2021 were within historical ranges and trends and did not vary significantly from the prior quarter with a few exceptions as noted below. Nitrates and total nitrogen have been cyclical at the site the last several years, with concentration spikes in the summer months, and have generally been consistent this quarter. pH levels this quarter are consistent with historical ranges, with MW-5R showing an increase from 7.95 to 8.18 this quarter. Boron and sodium are generally consistent with past analytical data, although sodium increased in all wells with notable increases in MW-5R and MW-6. Overall TDS levels show little variability from prior quarter results at each well although four of five wells sampled showed slight increases in TDS. The spatial variation of TDS, nitrate and boron concentrations over the recent past are best explained by the recent rainfall/dryness patterns, recharge and pumping changes in the area groundwater. Total Coliform was not detected in any of the samples this quarter. Chloride samples showed increases in three of five samples with MW-5R reaching a new high mark at 140 mg/L. MW-4 has shown relatively wide swings in chloride results the last several quarters. No other significant trends in groundwater quality trends were observed from these monitoring results.

MW-3 has been an outlier in water quality with results that are often significantly different from the remaining monitoring wells, however there was insufficient water in the well to collect a groundwater sample this quarter. MW-7 also had insufficient water to collect a sample.

Well MW-2 had the highest concentrations of TDS this quarter at 1200 mg/L, an increase from the prior quarter. Overall TDS results were generally consistent with the prior quarter.

Sodium levels increased in the samples from all sampled wells this quarter. Sodium results remain within historical ranges for all wells with the exception of MW-5R, where a new historic high of 130 ppm was reached.

Chloride levels increased in the sample from MW-5R to another historic high, although still below Water Quality Objectives, decreased in the sample from MW-1, stayed the same in the sample from MW-2, and increased in the samples from MW-4, MW-5R and MW-6. The sample from MW-4, which has normally had chloride concentrations above site background, showed another large swing increasing from 120 to 260 mg/L.

The highest nitrate (as N) (19 mg/L) and the highest Total Nitrogen (19 mg/L) were detected in the sample from MW-2.

The sample from MW-2 had the highest boron (5.7 mg/L) concentration detected this quarter. Typically all boron results are elevated in all samples from the site, usually exceeding Water Quality Objectives.

For First Quarter 2021 sampling, Total Coliform was not detected in any of the wells sampled. Stricter handling requirements were implemented the last several quarters to reduce the likelihood of cross contamination and these measures will be maintained.

Ammonia (as N) was not detected in any of the samples this quarter. Ammonia (as N) is typically not detected at any of the wells in the monitoring network, aside from MW-3, which was not sampled this quarter.

Iron and manganese were not reported in samples from any of the wells sampled this quarter.

TTHMs were detected in all five wells sampled this quarter, with the sample from MW-5R the highest at 58 ug/L. TTHMs included chloroform, bromoform, dibromochloromethane and bromodichloromethane. Trip blanks were submitted this quarter with no TTHMs detected.

3.4 COMPARISON TO INTERIM GROUNDWATER LIMITATIONS

The water quality results from the First Quarter 2021 monitoring event show that every monitoring well sampled exceeded the interim groundwater limitation for boron, which is generally consistent with historic results.

Based on the understanding that the interim groundwater quality limits remain the higher of the background level for the site and the basin wide WQO (water quality objective), the following is a summary of each wells exceedances for the current quarter (First Quarter 2021). Comparing to the previous quarter, the number of parameters in exceedance is less, although the constituents in exceedance varies somewhat from the prior quarter.

MW-1: Boron
MW-2: TDS, Boron, Nitrate, Total Nitrogen
MW-3: Not sampled
MW-4: Chloride, Boron, Total Nitrogen
MW-5R: Chloride, Boron
MW-6: Chloride, Boron, Total Nitrogen
MW-7: Not sampled

4.0 CONCLUSIONS

The groundwater contours and flow directions show there are two potential sources of groundwater to the area. MW-5R monitors water entering the area that is recharged by Cache Creek, north of the WWRF area. Water also enters the area from the south near MW-1 and MW-2 from regions used for agriculture. MW-4, MW-6, and MW-7 are in a mixing zone between these water sources and as such minor shifts in groundwater gradients may result in a change in water quality that reflects these two different water sources. In 2015, almond orchards were planted in the fields just west of the monitoring area and water wells were installed to provide water for the orchards. Deep percolation from irrigation or pumping for water supply could affect groundwater levels and flow directions, but to date they do not appear to be affecting groundwater beneath the WWRF area. In past monitoring events, it appeared groundwater pumping east of the monitoring well network was affecting MW-4 and could be affecting MW-7.

In general, the annual rainfall amounts, irrigation practices at farmlands and golf courses, and variations in groundwater pumping to meet local domestic water needs can impact the local groundwater contours, flow direction and gradients. However, for the First Quarter 2021 monitoring event, these parameters remained within historical ranges for groundwater levels. The most recent groundwater levels reflect an overall decrease from the Fourth Quarter 2021 data corresponding to a dry winter. Generally, groundwater levels changes track each other across the various monitoring wells, although water levels increased slightly in three wells and decreased slightly in four wells this quarter. GW flow gradients remain in the range of historical observations at 0.008 ft/ft for the quarter, although on the higher end reflecting generally dryer conditions and the direction of flow is east-northeast.

The analytical results from the First Quarter 2021 sampling event show a number of results slightly above the interim groundwater limitations. All wells sampled exceeded the interim groundwater limitations for boron, which is consistent with historic monitoring results. Three wells had chloride limits which exceeded interim groundwater limitations and one well had TDS which exceeded interim groundwater limitations. Additionally, one well had nitrate concentrations above interim limits and three wells had Total Nitrogen concentrations which were at or exceeded the interim limits. All exceedances of the interim limits were small and in line with historical ranges.

TDS concentrations were up in four wells and down in one well this quarter, with all the changes within historical ranges.

Overall chloride trends are generally consistent within historical ranges, although an a historic high chloride concentration was recorded in the sample from MW-5. Well 4 continues to show wide fluctuations in chloride levels.

The First Quarter 2021 analyses for TTHMs shows that samples from all five wells sampled this quarter detected TTHMs, but none exceeded interim limits. TTHMs included chloroform, bromoform, dibromochloromethane and bromodichloromethane. This is an increase from the Fourth Quarter 2020 where three wells had TTHM detections. The trip blank samples did not detect TTHMs.

First Quarter 2021 analyses for Total Coliform showed no detections in any of the wells sampled. Implementation of more strict sample handling protocols has reduced the likelihood of cross contamination of samples, however measures will continue to be taken to further reduce potential contamination of samples.

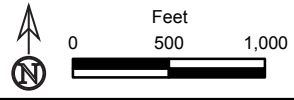
Review of the current quarter and historical data trends indicate the local groundwater quality appears to remain in historical ranges since before and after the operations of the WWRF.

FIGURES



Figure 1
Site and Vicinity

Third Quarter 2018 Monitoring Report
Wild Wings Water Recycling Facility
18530 Wildwings Drive
Woodland, Yolo County, California



Notes:
All locations are approximate.
Aerial Source: USDA, National Agriculture Imagery Program, 8 July 2016



- Approximate Project Boundary
- Wild Wings Water Recycling Facility
- Groundwater Monitoring Well Location
- Groundwater Elevation Contour (ft msl)
5 Foot Interval
- Groundwater Flow Direction

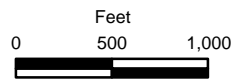


Figure 2
Groundwater Elevation Contours

Notes:
 All locations are approximate
 ft msl = feet above mean sea level
 *Groundwater monitoring well is screened at a shallower depth,
 therefore it is not included in groundwater elevation contouring
 Aerial Source: USDA, National Agriculture Imagery Program, 8 July 2016



First Quarter 2021 Monitoring Report
 Wild Wings Water Recycling Facility
 18530 Wildwings Drive
 Woodland, Yolo County, California

TABLES

Table 1
Monitoring Well Construction Details
Wild Wings Water Recycling Facility, Yolo County, CA

| Well | Date Installed | Depth of Borehole (feet bgs) | Depth of Well Casing (feet bgs) | Screened Interval (feet bgs) | Slot Size (inches) | Grout (feet bgs) | Bentonite Seal (feet bgs) | Sand Pack (feet bgs) | Casing Material | TOC Elevation (feet msl) | Screen Elevations (feet msl) |
|-------|----------------|------------------------------|---------------------------------|------------------------------|--------------------|------------------|---------------------------|----------------------|----------------------------------|--------------------------|------------------------------|
| MW-1 | 6/3/2004 | 46 | 41 | 31-41 | 0.010 | 0.5-25.5 | 25.5-28.5 | 28.5-45 | 2-inch Sch. 40 PVC, flush thread | 126.22 | 95.22 - 85.22 |
| MW-2 | 6/2/2004 | 51.5 | 47 | 37-47 | 0.010 | 0.5-31 | 31-34.5 | 34.5-47 | 2-inch Sch. 40 PVC, flush thread | 124.93 | 87.93 - 77.93 |
| MW-3 | 6/3/2004 | 31.5 | 31 | 21-31 | 0.010 | 0.5-14.5 | 14.5-19 | 19-32 | 2-inch Sch. 40 PVC, flush thread | 121.37 | 100.37 - 90.37 |
| MW-4 | 6/1/2004 | 71.5 | 70 | 55-70 | 0.010 | 0.5-48 | 48-52 | 52-70 | 2-inch Sch. 40 PVC, flush thread | 120.71 | 65.71 - 50.71 |
| MW-5R | 6/10/2004 | 75 | 74 | 54-74 | 0.010 | 0.5-47 | 47-52 | 52-75 | 2-inch Sch. 40 PVC, flush thread | 125.42 | 71.42 - 51.42 |
| MW-6 | 5/27/2004 | 50 | 49 | 39-49 | 0.010 | 0.5-33 | 33-37 | 37-50 | 2-inch Sch. 40 PVC, flush thread | 121.59 | 82.59 - 72.59 |
| MW-7 | 5/28/2004 | 45 | 39 | 29-39 | 0.010 | 0.5-22 | 22-26.5 | 26.5-45 | 2-inch Sch. 40 PVC, flush thread | 114.55 | 85.55 - 75.55 |

Notes:

Information for monitoring wells was extracted from Monitoring Well Installation Report (Geologic and Hydrogeologic Study) for the Wild Wings Residential Development, Jacobson Helgoth Consultants, Inc., August 2004.

All monitoring wells were drilled and constructed by PC Exploration of Rocklin, CA. An Ingersol Rand A-400 drill rig with an 8-inch diameter hollow stem auger was used. Oversight was provided by Jacobson Helgoth Consultants. Wellheads were constructed in subsurface vaults with flush mount covers and locking well caps. The top of the PVC casing is approximately 1.3 feet below ground surface (bgs).

TOC = top of casing; surveyed in reference to mean sea level by Morrow Surveying of West Sacramento, CA, on June 26, 2004

Table 2
Static Water Level Measurement in Monitoring Wells
Wild Wings Water Recycling Facility, Yolo County, CA

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-1 | 6/15/04 | 126.22 | 32.81 | 93.41 |
| MW-1 | 3/29/05 | 126.22 | 30.62 | 95.6 |
| MW-1 | 6/16/05 | 126.22 | 29.62 | 96.6 |
| MW-1 | 9/29/05 | 126.22 | 31.75 | 94.47 |
| MW-1 | 12/6/05 | 126.22 | 31.4 | 94.82 |
| MW-1 | 2/16/06 | 126.22 | 29.99 | 96.23 |
| MW-1 | 5/16/06 | 126.22 | 27.25 | 98.97 |
| MW-1 | 8/21/06 | 126.22 | 29.73 | 96.49 |
| MW-1 | 11/20/06 | 126.22 | 30.27 | 95.95 |
| MW-1 | 2/8/07 | 126.22 | 31.37 | 94.85 |
| MW-1 | 5/7/07 | 126.22 | 30.79 | 95.43 |
| MW-1 | 8/29/07 | 126.22 | 32.38 | 93.84 |
| MW-1 | 2/21/08 | 126.22 | 29.96 | 96.26 |
| MW-1 | 5/27/08 | 126.22 | 29.7 | 96.52 |
| MW-1 | 8/27/08 | 126.22 | 30.49 | 95.73 |
| MW-1 | 11/24/08 | 126.22 | 32.43 | 93.79 |
| MW-1 | 2/18/09 | 126.22 | 30.72 | 95.5 |
| MW-1 | 5/21/09 | 126.22 | 31.28 | 94.94 |
| MW-1 | 8/7/09 | 126.22 | 32.96 | 93.26 |
| MW-1 | 11/5/09 | 126.22 | 34.34 | 91.88 |
| MW-1 | 2/8/10 | 126.22 | 32.05 | 94.17 |
| MW-1 | 5/7/10 | 126.22 | 31.85 | 94.37 |
| MW-1 | 8/18/10 | 126.22 | 31.22 | 95.0 |
| MW-1 | 11/2/10 | 126.22 | 32 | 94.22 |
| MW-1 | 12/28/10 | 126.22 | 30.76 | 95.46 |
| MW-1 | 2/23/11 | 126.22 | 31.33 | 94.89 |
| MW-1 | 5/5/11 | 126.22 | 29.44 | 96.78 |
| MW-1 | 8/16/11 | 126.22 | 30.23 | 95.99 |
| MW-1 | 11/8/11 | 126.22 | 31.95 | 94.27 |
| MW-1 | 2/27/12 | 126.22 | 32.84 | 93.38 |
| MW-1 | 5/21/12 | 126.22 | 32.8 | 93.42 |
| MW-1 | 8/9/12 | 126.22 | 33.84 | 92.38 |
| MW-1 | 11/19/12 | 126.22 | 34.39 | 91.83 |
| MW-1 | 2/21/13 | 126.22 | 32.1 | 94.12 |
| MW-1 | 5/15/13 | 126.22 | 31.73 | 94.49 |
| MW-1 | 8/15/13 | 126.22 | 32.84 | 93.38 |
| MW-1 | 11/7/13 | 126.22 | 33.69 | 92.53 |
| MW-1 | 2/25/14 | 126.22 | 34.38 | 91.84 |
| MW-1 | 5/22/14 | 126.22 | 35.22 | 91.0 |
| MW-1 | 8/27/14 | 126.22 | 36.65 | 89.57 |
| MW-1 | 11/12/14 | 126.22 | 36.93 | 89.29 |
| MW-1 | 2/26/15 | 126.22 | 34.88 | 91.34 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-1 | 5/13/15 | 126.22 | 35.6 | 90.62 |
| MW-1 | 8/4/15 | 126.22 | 36.03 | 90.19 |
| MW-1 | 11/5/15 | 126.22 | 36.9 | 89.32 |
| MW-1 | 2/4/16 | 126.22 | 35.33 | 90.89 |
| MW-1 | 6/30/16 | 126.22 | 34.37 | 91.85 |
| MW-1 | 8/25/16 | 126.22 | 34.59 | 91.63 |
| MW-1 | 11/17/16 | 126.22 | 34.9 | 91.32 |
| MW-1 | 3/7/17 | 126.22 | 26.18 | 100.04 |
| MW-1 | 6/27/17 | 126.22 | 28.14 | 98.08 |
| MW-1 | 8/23/17 | 126.22 | 30.09 | 96.13 |
| MW-1 | 11/14/17 | 126.22 | 31.07 | 95.15 |
| MW-1 | 2/21/18 | 126.22 | 32.94 | 93.28 |
| MW-1 | 5/24/18 | 126.22 | 33.03 | 93.19 |
| MW-1 | 9/27/18 | 126.22 | 34.07 | 92.15 |
| MW-1 | 12/28/18 | 126.22 | 31.34 | 94.88 |
| MW-1 | 2/28/19 | 126.22 | 28.39 | 97.83 |
| MW-1 | 6/18/19 | 126.22 | 27.91 | 98.31 |
| MW-1 | 9/3/19 | 126.22 | 29.69 | 96.53 |
| MW-1 | 12/3/19 | 126.22 | 30.98 | 95.24 |
| MW-1 | 3/6/20 | 126.22 | 31.50 | 94.72 |
| MW-1 | 4/8/20 | 126.22 | 31.68 | 94.54 |
| MW-1 | 9/16/20 | 126.22 | 33.19 | 93.03 |
| MW-1 | 12/8/20 | 126.22 | 33.81 | 92.41 |
| MW-1 | 3/3/21 | 126.22 | 34.33 | 91.89 |
| MW-2 | 6/15/04 | 124.93 | 34.75 | 90.18 |
| MW-2 | 3/29/05 | 124.93 | 33.2 | 91.73 |
| MW-2 | 6/16/05 | 124.93 | 31.71 | 93.22 |
| MW-2 | 9/29/05 | 124.93 | 36.67 | 88.26 |
| MW-2 | 12/6/05 | 124.93 | 36.29 | 88.64 |
| MW-2 | 2/16/06 | 124.93 | 31.85 | 93.08 |
| MW-2 | 5/16/06 | 124.93 | 28.12 | 96.81 |
| MW-2 | 8/21/06 | 124.93 | 33.17 | 91.76 |
| MW-2 | 11/20/06 | 124.93 | 34.75 | 90.18 |
| MW-2 | 2/8/07 | 124.93 | 34.81 | 90.12 |
| MW-2 | 5/7/07 | 124.93 | 35.53 | 89.4 |
| MW-2 | 8/29/07 | 124.93 | 39.92 | 85.01 |
| MW-2 | 2/21/08 | 124.93 | 33.15 | 91.78 |
| MW-2 | 5/27/08 | 124.93 | 34.25 | 90.68 |
| MW-2 | 8/27/08 | 124.93 | 37.59 | 87.34 |
| MW-2 | 11/25/08 | 124.93 | 37.3 | 87.63 |
| MW-2 | 2/19/09 | 124.93 | 36.01 | 88.92 |
| MW-2 | 5/21/09 | 124.93 | 36.47 | 88.46 |
| MW-2 | 8/7/09 | 124.93 | 40.14 | 84.79 |
| MW-2 | 11/5/09 | 124.93 | 41.38 | 83.55 |
| MW-2 | 2/8/10 | 124.93 | 38.48 | 86.45 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|------|----------|--------------------------------|--------------------|---------------------------------------|
| MW-2 | 5/7/10 | 124.93 | 35.8 | 89.13 |
| MW-2 | 8/18/10 | 124.93 | 36.66 | 88.27 |
| MW-2 | 11/2/10 | 124.93 | 38.25 | 86.68 |
| MW-2 | 12/28/10 | 124.93 | 37.08 | 87.85 |
| MW-2 | 2/23/11 | 124.93 | 35.68 | 89.25 |
| MW-2 | 5/5/11 | 124.93 | 30.87 | 94.06 |
| MW-2 | 8/16/11 | 124.93 | 33.73 | 91.2 |
| MW-2 | 11/8/11 | 124.93 | 35.93 | 89 |
| MW-2 | 2/27/12 | 124.93 | 36.04 | 88.89 |
| MW-2 | 5/21/12 | 124.93 | 35.89 | 89.04 |
| MW-2 | 8/9/12 | 124.93 | 37.54 | 87.39 |
| MW-2 | 11/19/12 | 124.93 | 37.9 | 87.03 |
| MW-2 | 2/21/13 | 124.93 | 34.6 | 90.33 |
| MW-2 | 5/15/13 | 124.93 | 36.4 | 88.53 |
| MW-2 | 8/15/13 | 124.93 | 38.8 | 86.13 |
| MW-2 | 11/7/13 | 124.93 | 38.74 | 86.19 |
| MW-2 | 2/25/14 | 124.93 | 38.78 | 86.15 |
| MW-2 | 5/22/14 | 124.93 | 41.17 | 83.76 |
| MW-2 | 8/27/14 | 124.93 | dry | |
| MW-2 | 11/12/14 | 124.93 | 45.07 | 79.86 |
| MW-2 | 2/26/15 | 124.93 | 39.83 | 85.1 |
| MW-2 | 5/13/15 | 124.93 | 39.72 | 85.21 |
| MW-2 | 8/4/15 | 124.93 | 39.35 | 85.58 |
| MW-2 | 11/5/15 | 124.93 | 41.79 | 83.14 |
| MW-2 | 2/4/16 | 124.93 | 40.41 | 84.52 |
| MW-2 | 6/30/16 | 124.93 | 37.44 | 87.49 |
| MW-2 | 8/25/16 | 124.93 | 38.39 | 86.54 |
| MW-2 | 11/17/16 | 124.93 | 37.67 | 87.26 |
| MW-2 | 3/7/17 | 124.93 | 27.4 | 97.53 |
| MW-2 | 6/27/17 | 124.93 | 30.42 | 94.51 |
| MW-2 | 8/23/17 | 124.93 | 33.31 | 91.62 |
| MW-2 | 11/14/17 | 124.93 | 35.97 | 88.96 |
| MW-2 | 2/21/18 | 124.93 | 35.87 | 89.06 |
| MW-2 | 5/24/18 | 124.93 | 35.5 | 89.43 |
| MW-2 | 9/27/18 | 124.93 | 37.08 | 87.85 |
| MW-2 | 12/28/18 | 124.93 | 34.06 | 90.87 |
| MW-2 | 2/28/19 | 124.93 | 31.39 | 93.54 |
| MW-2 | 6/18/19 | 124.93 | 29.1 | 95.83 |
| MW-2 | 9/3/19 | 124.93 | 31.7 | 93.23 |
| MW-2 | 12/3/19 | 124.93 | 34.05 | 90.88 |
| MW-2 | 3/6/20 | 124.93 | 34.26 | 90.67 |
| MW-2 | 4/8/20 | 124.93 | 34.31 | 90.62 |
| MW-2 | 9/16/20 | 124.93 | 35.34 | 89.59 |
| MW-2 | 12/8/20 | 124.93 | 36.24 | 88.69 |
| MW-2 | 3/3/21 | 124.93 | 36.71 | 88.22 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-3 | 6/15/04 | 121.37 | 20.42 | 100.95 |
| MW-3 | 3/29/05 | 121.37 | 21.33 | 100.04 |
| MW-3 | 6/16/05 | 121.37 | 20.14 | 101.23 |
| MW-3 | 9/29/05 | 121.37 | 22.45 | 98.92 |
| MW-3 | 12/6/05 | 121.37 | 21.54 | 99.83 |
| MW-3 | 2/16/06 | 121.37 | 21.65 | 99.72 |
| MW-3 | 5/16/06 | 121.37 | 26.51 | 94.86 |
| MW-3 | 8/21/06 | 121.37 | 21.49 | 99.88 |
| MW-3 | 11/20/06 | 121.37 | 21.14 | 100.23 |
| MW-3 | 2/8/07 | 121.37 | 23.02 | 98.35 |
| MW-3 | 5/7/07 | 121.37 | 20.63 | 100.74 |
| MW-3 | 8/29/07 | 121.37 | 22.99 | 98.38 |
| MW-3 | 2/21/08 | 121.37 | 21.24 | 100.13 |
| MW-3 | 5/27/08 | 121.37 | 22.19 | 99.18 |
| MW-3 | 8/28/08 | 121.37 | 23 | 98.37 |
| MW-3 | 11/25/08 | 121.37 | 24.39 | 96.98 |
| MW-3 | 2/19/09 | 121.37 | 19.67 | 101.7 |
| MW-3 | 5/21/09 | 121.37 | 21.31 | 100.06 |
| MW-3 | 8/7/09 | 121.37 | 22.49 | 98.88 |
| MW-3 | 11/5/09 | 121.37 | 24.29 | 97.08 |
| MW-3 | 2/8/10 | 121.37 | 20.2 | 101.17 |
| MW-3 | 5/7/10 | 121.37 | 23.21 | 98.16 |
| MW-3 | 8/18/10 | 121.37 | 23.55 | 97.82 |
| MW-3 | 11/2/10 | 121.37 | 25.13 | 96.24 |
| MW-3 | 12/28/10 | 121.37 | 19.95 | 101.42 |
| MW-3 | 2/23/11 | 121.37 | 20.66 | 100.71 |
| MW-3 | 5/5/11 | 121.37 | 21.64 | 99.73 |
| MW-3 | 8/16/11 | 121.37 | 23.3 | 98.07 |
| MW-3 | 11/8/11 | 121.37 | 25.03 | 96.34 |
| MW-3 | 2/27/12 | 121.37 | 24.69 | 96.68 |
| MW-3 | 5/21/12 | 121.37 | 24.44 | 96.93 |
| MW-3 | 8/9/12 | 121.37 | 25.58 | 95.79 |
| MW-3 | 11/19/12 | 121.37 | 25.96 | 95.41 |
| MW-3 | 2/21/13 | 121.37 | 24.15 | 97.22 |
| MW-3 | 5/15/13 | 121.37 | 25.45 | 95.92 |
| MW-3 | 8/16/13 | 121.37 | 26.67 | 94.7 |
| MW-3 | 11/7/13 | 121.37 | 25.97 | 95.4 |
| MW-3 | 2/25/14 | 121.37 | 25.44 | 95.93 |
| MW-3 | 5/22/14 | 121.37 | 26.5 | 94.87 |
| MW-3 | 8/27/14 | 121.37 | 28.75 | 92.62 |
| MW-3 | 11/12/14 | 121.37 | 29.53 | 91.84 |
| MW-3 | 2/26/15 | 121.37 | 21.33 | 100.04 |
| MW-3 | 5/13/15 | 121.37 | 23.53 | 97.84 |
| MW-3 | 8/4/15 | 121.37 | 25.7 | 95.67 |
| MW-3 | 11/5/15 | 121.37 | 28.7 | 92.67 |
| MW-3 | 2/4/16 | 121.37 | 24.81 | 96.56 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|------|----------|--------------------------------|--------------------|---------------------------------------|
| MW-3 | 6/30/16 | 121.37 | 25.89 | 95.48 |
| MW-3 | 8/25/16 | 121.37 | 27.74 | 93.63 |
| MW-3 | 11/17/16 | 121.37 | 29.6 | 91.77 |
| MW-3 | 3/7/17 | 121.37 | 19.13 | 102.24 |
| MW-3 | 6/27/17 | 121.37 | 22.75 | 98.62 |
| MW-3 | 8/23/17 | 121.37 | 23.33 | 98.04 |
| MW-3 | 11/14/17 | 121.37 | 25.87 | 95.5 |
| MW-3 | 2/21/18 | 121.37 | 26.98 | 94.39 |
| MW-3 | 5/24/18 | 121.37 | 25.54 | 95.83 |
| MW-3 | 9/27/18 | 121.37 | 27.37 | 94.0 |
| MW-3 | 12/28/18 | 121.37 | 24.25 | 97.1 |
| MW-3 | 2/28/19 | 121.37 | 16.75 | 104.6 |
| MW-3 | 6/18/19 | 121.37 | 21.52 | 99.9 |
| MW-3 | 9/3/19 | 121.37 | 23.35 | 98.0 |
| MW-3 | 12/3/19 | 121.37 | 21.99 | 99.4 |
| MW-3 | 3/6/20 | 121.37 | 23.67 | 97.7 |
| MW-3 | 4/8/20 | 121.37 | 26.52 | 94.9 |
| MW-3 | 9/22/20 | 121.37 | 28.58 | 92.8 |
| MW-3 | 12/8/20 | 121.37 | dry | |
| MW-3 | 3/1/21 | 121.27 | 26.00 | 95.4 |
| MW-4 | 6/15/04 | 120.71 | 44.59 | 76.12 |
| MW-4 | 3/29/05 | 120.71 | 42.83 | 77.88 |
| MW-4 | 6/16/05 | 120.71 | 41.93 | 78.78 |
| MW-4 | 9/29/05 | 120.71 | na | |
| MW-4 | 12/6/05 | 120.71 | 46.6 | 74.11 |
| MW-4 | 2/16/06 | 120.71 | 42.31 | 78.4 |
| MW-4 | 5/16/06 | 120.71 | 37.61 | 83.1 |
| MW-4 | 8/21/06 | 120.71 | 42.25 | 78.46 |
| MW-4 | 11/20/06 | 120.71 | 41.8 | 78.91 |
| MW-4 | 2/8/07 | 120.71 | 40.85 | 79.86 |
| MW-4 | 5/7/07 | 120.71 | 40.92 | 79.79 |
| MW-4 | 8/29/07 | 120.71 | 46.13 | 74.58 |
| MW-4 | 2/21/08 | 120.71 | 41.2 | 79.51 |
| MW-4 | 5/27/08 | 120.71 | 42.34 | 78.37 |
| MW-4 | 8/28/08 | 120.71 | 45.65 | 75.06 |
| MW-4 | 11/25/08 | 120.71 | 46.07 | 74.64 |
| MW-4 | 2/19/09 | 120.71 | 45.29 | 75.42 |
| MW-4 | 5/21/09 | 120.71 | 44.44 | 76.27 |
| MW-4 | 8/7/09 | 120.71 | 49.54 | 71.17 |
| MW-4 | 11/5/09 | 120.71 | 51 | 69.71 |
| MW-4 | 2/8/10 | 120.71 | 49.31 | 71.4 |
| MW-4 | 5/7/10 | 120.71 | 45.94 | 74.77 |
| MW-4 | 8/18/10 | 120.71 | 48.05 | 72.66 |
| MW-4 | 11/2/10 | 120.71 | 49.05 | 71.66 |
| MW-4 | 12/28/10 | 120.71 | 48.01 | 72.7 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-4 | 2/23/11 | 120.71 | 46.31 | 74.4 |
| MW-4 | 5/5/11 | 120.71 | 42.04 | 78.67 |
| MW-4 | 8/16/11 | 120.71 | 45.02 | 75.69 |
| MW-4 | 11/8/11 | 120.71 | 46.64 | 74.07 |
| MW-4 | 2/27/12 | 120.71 | 44.72 | 75.99 |
| MW-4 | 5/21/12 | 120.71 | 44.56 | 76.15 |
| MW-4 | 8/9/12 | 120.71 | 48.08 | 72.63 |
| MW-4 | 11/19/12 | 120.71 | 49.78 | 70.93 |
| MW-4 | 2/21/13 | 120.71 | 45.9 | 74.81 |
| MW-4 | 5/15/13 | 120.71 | 46.69 | 74.02 |
| MW-4 | 8/16/13 | 120.71 | 50.67 | 70.04 |
| MW-4 | 11/7/13 | 120.71 | 51.99 | 68.72 |
| MW-4 | 2/25/14 | 120.71 | 50.88 | 69.83 |
| MW-4 | 5/22/14 | 120.71 | 51.08 | 69.63 |
| MW-4 | 8/27/14 | 120.71 | 55.49 | 65.22 |
| MW-4 | 11/12/14 | 120.71 | 56.36 | 64.35 |
| MW-4 | 2/26/15 | 120.71 | 53.85 | 66.86 |
| MW-4 | 5/13/15 | 120.71 | 53.9 | 66.81 |
| MW-4 | 8/4/15 | 120.71 | 55.42 | 65.29 |
| MW-4 | 11/5/15 | 120.71 | 56.74 | 63.97 |
| MW-4 | 2/4/16 | 120.71 | 56.4 | 64.31 |
| MW-4 | 6/30/16 | 120.71 | 54.22 | 66.49 |
| MW-4 | 8/25/16 | 120.71 | 55.21 | 65.5 |
| MW-4 | 11/17/16 | 120.71 | 55.54 | 65.17 |
| MW-4 | 3/7/17 | 120.71 | 48.46 | 72.25 |
| MW-4 | 6/27/17 | 120.71 | 47.06 | 73.65 |
| MW-4 | 8/23/17 | 120.71 | 48.59 | 72.12 |
| MW-4 | 11/14/17 | 120.71 | 49.98 | 70.73 |
| MW-4 | 2/21/18 | 120.71 | 49.98 | 70.73 |
| MW-4 | 5/24/18 | 120.71 | 49.69 | 71.02 |
| MW-4 | 9/27/18 | 120.71 | 53.11 | 67.6 |
| MW-4 | 12/28/18 | 120.71 | 53.42 | 67.29 |
| MW-4 | 2/28/19 | 120.71 | 49.4 | 71.31 |
| MW-4 | 6/18/19 | 120.71 | 44.4 | 76.31 |
| MW-4 | 9/17/19 | 120.71 | 46.57 | 74.14 |
| MW-4 | 12/3/19 | 120.71 | 48.05 | 72.66 |
| MW-4 | 2/13/20 | 120.71 | 46.58 | 74.13 |
| MW-4 | 4/8/20 | 120.71 | 46.62 | 74.09 |
| MW-4 | 9/22/20 | 120.71 | 51.42 | 69.29 |
| MW-4 | 12/8/20 | 120.71 | 52.94 | 67.77 |
| MW-4 | 3/1/21 | 120.71 | 52.58 | 68.13 |
| MW-5R | 6/15/04 | 125.42 | 39.37 | 86.05 |
| MW-5R | 3/29/05 | 125.42 | 37.65 | 87.77 |
| MW-5R | 6/16/05 | 125.42 | 35.62 | 89.8 |
| MW-5R | 9/29/05 | 125.42 | 40.73 | 84.69 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-5R | 12/6/05 | 125.42 | 40.78 | 84.64 |
| MW-5R | 2/16/06 | 125.42 | 36.02 | 89.4 |
| MW-5R | 5/16/06 | 125.42 | 37.05 | 88.37 |
| MW-5R | 8/21/06 | 125.42 | 36.12 | 89.3 |
| MW-5R | 11/20/06 | 125.42 | 38.95 | 86.47 |
| MW-5R | 2/8/07 | 125.42 | 38.97 | 86.45 |
| MW-5R | 5/7/07 | 125.42 | 38.42 | 87 |
| MW-5R | 8/29/07 | 125.42 | 42.97 | 82.45 |
| MW-5R | 2/21/08 | 125.42 | 37.5 | 87.92 |
| MW-5R | 5/27/08 | 125.42 | 38.06 | 87.36 |
| MW-5R | 8/27/08 | 125.42 | 41.41 | 84.01 |
| MW-5R | 11/24/08 | 125.42 | 41.84 | 83.58 |
| MW-5R | 2/18/09 | 125.42 | 40.73 | 84.69 |
| MW-5R | 5/21/09 | 125.42 | 40.54 | 84.88 |
| MW-5R | 8/7/09 | 125.42 | 43.1 | 82.32 |
| MW-5R | 11/5/09 | 125.42 | 45.2 | 80.22 |
| MW-5R | 2/8/10 | 125.42 | 42.4 | 83.02 |
| MW-5R | 5/7/10 | 125.42 | 39.77 | 85.65 |
| MW-5R | 8/18/10 | 125.42 | 40.15 | 85.27 |
| MW-5R | 11/2/10 | 125.42 | 42.53 | 82.89 |
| MW-5R | 12/28/10 | 125.42 | 41.53 | 83.89 |
| MW-5R | 2/23/11 | 125.42 | 40.1 | 85.32 |
| MW-5R | 5/5/11 | 125.42 | 34.65 | 90.77 |
| MW-5R | 8/16/11 | 125.42 | 36.78 | 88.64 |
| MW-5R | 11/8/11 | 125.42 | 40.14 | 85.28 |
| MW-5R | 2/27/12 | 125.42 | 40.31 | 85.11 |
| MW-5R | 5/21/12 | 125.42 | 38.6 | 86.82 |
| MW-5R | 8/9/12 | 125.42 | 40.68 | 84.74 |
| MW-5R | 11/19/12 | 125.42 | 42.11 | 83.31 |
| MW-5R | 2/21/13 | 125.42 | 39.03 | 86.39 |
| MW-5R | 5/15/13 | 125.42 | 39.69 | 85.73 |
| MW-5R | 8/15/13 | 125.42 | 41.55 | 83.87 |
| MW-5R | 11/7/13 | 125.42 | 42.43 | 82.99 |
| MW-5R | 2/25/14 | 125.42 | 42.28 | 83.14 |
| MW-5R | 5/22/14 | 125.42 | 44.12 | 81.3 |
| MW-5R | 8/27/14 | 125.42 | 49.26 | 76.16 |
| MW-5R | 11/12/14 | 125.42 | 48.34 | 77.08 |
| MW-5R | 2/26/15 | 125.42 | 43.39 | 82.03 |
| MW-5R | 5/13/15 | 125.42 | 43.03 | 82.39 |
| MW-5R | 8/4/15 | 125.42 | 42.8 | 82.62 |
| MW-5R | 11/5/15 | 125.42 | 45.3 | 80.12 |
| MW-5R | 2/4/16 | 125.42 | 43.76 | 81.66 |
| MW-5R | 6/30/16 | 125.42 | 41.06 | 84.36 |
| MW-5R | 8/25/16 | 125.42 | 42.23 | 83.19 |
| MW-5R | 11/17/16 | 125.42 | 41.53 | 83.89 |
| MW-5R | 3/7/17 | 125.42 | 32.08 | 93.34 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-5R | 6/27/17 | 125.42 | 34.96 | 90.46 |
| MW-5R | 8/23/17 | 125.42 | 38.11 | 87.31 |
| MW-5R | 11/14/17 | 125.42 | 39.69 | 85.73 |
| MW-5R | 2/21/18 | 125.42 | 40.39 | 85.03 |
| MW-5R | 5/24/18 | 125.42 | 38.03 | 87.39 |
| MW-5R | 9/27/18 | 125.42 | 41.65 | 83.77 |
| MW-5R | 12/28/18 | 125.42 | 40.7 | 84.72 |
| MW-5R | 2/28/19 | 125.42 | 35.59 | 89.83 |
| MW-5R | 6/18/19 | 125.42 | 31.69 | 93.73 |
| MW-5R | 9/4/19 | 125.42 | 31.72 | 93.7 |
| MW-5R | 12/3/19 | 125.42 | 38.74 | 86.68 |
| MW-5R | 3/6/20 | 125.42 | 38.90 | 86.52 |
| MW-5R | 4/8/20 | 125.42 | 38.15 | 87.27 |
| MW-5R | 9/16/20 | 125.42 | 40.21 | 85.21 |
| MW-5R | 12/8/20 | 125.42 | 41.04 | 84.38 |
| MW-5R | 3/1/21 | 125.42 | 41.33 | 84.09 |
| MW-6 | 6/15/04 | 121.59 | 37.96 | 83.63 |
| MW-6 | 3/29/05 | 121.59 | 37.26 | 84.33 |
| MW-6 | 6/16/05 | 121.59 | 34.92 | 86.67 |
| MW-6 | 9/29/05 | 121.59 | 40.59 | 81 |
| MW-6 | 12/6/05 | 121.59 | 40.77 | 80.82 |
| MW-6 | 2/16/06 | 121.59 | 35.32 | 86.27 |
| MW-6 | 5/16/06 | 121.59 | 30.28 | 91.31 |
| MW-6 | 8/21/06 | 121.59 | 35.59 | 86 |
| MW-6 | 11/20/06 | 121.59 | 38.57 | 83.02 |
| MW-6 | 2/8/07 | 121.59 | 38.46 | 83.13 |
| MW-6 | 5/7/07 | 121.59 | 37.97 | 83.62 |
| MW-6 | 8/29/07 | 121.59 | 42.96 | 78.63 |
| MW-6 | 2/21/08 | 121.59 | 37.02 | 84.57 |
| MW-6 | 5/27/08 | 121.59 | 37.56 | 84.03 |
| MW-6 | 8/27/08 | 121.59 | 41.26 | 80.33 |
| MW-6 | 11/24/08 | 121.59 | 41.98 | 79.61 |
| MW-6 | 2/18/09 | 121.59 | 40.67 | 80.92 |
| MW-6 | 5/21/09 | 121.59 | 39.94 | 81.65 |
| MW-6 | 8/7/09 | 121.59 | 42.98 | 78.61 |
| MW-6 | 11/5/09 | 121.59 | 45.37 | 76.22 |
| MW-6 | 2/8/10 | 121.59 | 42.51 | 79.08 |
| MW-6 | 5/7/10 | 121.59 | 39.51 | 82.08 |
| MW-6 | 8/18/10 | 121.59 | 40.14 | 81.45 |
| MW-6 | 11/2/10 | 121.59 | 42 | 75.57 |
| MW-6 | 12/28/10 | 121.59 | 41.67 | 79.92 |
| MW-6 | 2/23/11 | 121.59 | 40.1 | 81.49 |
| MW-6 | 5/5/11 | 121.59 | 34.03 | 87.56 |
| MW-6 | 8/16/11 | 121.59 | 36.23 | 85.36 |
| MW-6 | 11/8/11 | 121.59 | 40.27 | 81.32 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|------|-----------|--------------------------------|--------------------|---------------------------------------|
| MW-6 | 2/27/12 | 121.59 | 40.2 | 81.39 |
| MW-6 | 5/21/12 | 121.59 | 38.67 | 82.92 |
| MW-6 | 8/9/12 | 121.59 | 41.03 | 80.56 |
| MW-6 | 11/19/12 | 121.59 | 42.47 | 79.12 |
| MW-6 | 2/21/13 | 121.59 | 38.91 | 82.68 |
| MW-6 | 5/15/13 | 121.59 | 39.64 | 81.95 |
| MW-6 | 8/15/13 | 121.59 | 41.84 | 79.75 |
| MW-6 | 11/7/13 | 121.59 | 42.65 | 78.94 |
| MW-6 | 2/25/14 | 121.59 | 42.34 | 79.25 |
| MW-6 | 5/22/14 | 121.59 | 44.14 | 77.45 |
| MW-6 | 8/27/14 | 121.59 | dry | |
| MW-6 | 11/12/14 | 121.59 | dry | |
| MW-6 | 2/26/15 | 121.59 | 43.62 | 77.97 |
| MW-6 | 5/13/15 | 121.59 | 43.65 | 77.94 |
| MW-6 | 8/4/15 | 121.59 | 43.2 | 78.39 |
| MW-6 | 11/5/15 | 121.59 | 45.58 | 76.01 |
| MW-6 | 2/4/16 | 121.59 | 43.92 | 77.67 |
| MW-6 | 6/30/16 | 121.59 | 41.31 | 80.28 |
| MW-6 | 8/25/16 | 121.59 | 42.62 | 78.97 |
| MW-6 | 11/17/16 | 121.59 | 41.8 | 79.79 |
| MW-6 | 3/7/17 | 121.59 | 31.88 | 89.71 |
| MW-6 | 6/27/17 | 121.59 | 34.37 | 87.22 |
| MW-6 | 8/23/17 | 121.59 | 37.96 | 83.63 |
| MW-6 | 11/14/17 | 121.59 | 39.71 | 81.88 |
| MW-6 | 2/21/18 | 121.59 | 40.15 | 81.44 |
| MW-6 | 5/24/18 | 121.59 | 39.25 | 82.34 |
| MW-6 | 9/27/18 | 121.59 | 41.78 | 79.81 |
| MW-6 | 12/28/18 | 121.59 | 40.71 | 80.88 |
| MW-6 | 2/28/19 | 121.59 | 35.6 | 85.99 |
| MW-6 | 6/18/19 | 121.59 | 32.69 | 88.9 |
| MW-6 | 9/17/19 | 121.59 | 35.57 | 86.02 |
| MW-6 | 12/3/19 | 121.59 | 38.4 | 83.19 |
| MW-6 | 2/13/20 | 121.59 | 38.37 | 83.22 |
| MW-6 | 4/8/20 | 121.59 | 37.78 | 83.81 |
| MW-6 | 9/22/20 | 121.59 | 40.38 | 81.21 |
| MW-6 | 12/8/20 | 121.59 | 40.98 | 80.61 |
| MW-6 | 3/1/21 | 121.59 | 41.21 | 80.38 |
| MW-7 | 6/15/2004 | 114.55 | 36.22 | 78.33 |
| MW-7 | 3/29/2005 | 114.55 | 35.8 | 78.75 |
| MW-7 | 6/16/2005 | 114.55 | 33.77 | 80.78 |
| MW-7 | 9/29/2005 | 114.55 | 38.09 | 76.46 |
| MW-7 | 12/6/2005 | 114.55 | dry | |
| MW-7 | 2/16/2006 | 114.55 | 34.08 | 80.47 |
| MW-7 | 5/16/2006 | 114.55 | 28.69 | 85.86 |
| MW-7 | 8/21/2006 | 114.55 | 34.29 | 80.26 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|------|------------|--------------------------------|--------------------|---------------------------------------|
| MW-7 | 11/20/2006 | 114.55 | 36.96 | 77.59 |
| MW-7 | 2/8/2007 | 114.55 | 36.85 | 77.7 |
| MW-7 | 5/7/2007 | 114.55 | 36.22 | 78.33 |
| MW-7 | 8/29/2007 | 114.55 | dry | |
| MW-7 | 2/21/2008 | 114.55 | 35.55 | 79 |
| MW-7 | 5/27/2008 | 114.55 | 35.92 | 78.63 |
| MW-7 | 8/27/2008 | 114.55 | 38.16 | 76.39 |
| MW-7 | 11/24/2008 | 114.55 | dry | |
| MW-7 | 2/18/2009 | 114.55 | dry | |
| MW-7 | 5/21/2009 | 114.55 | dry | |
| MW-7 | 8/7/2009 | 114.55 | dry | |
| MW-7 | 11/5/2009 | 114.55 | dry | |
| MW-7 | 2/8/2010 | 114.55 | dry | |
| MW-7 | 5/7/2010 | 114.55 | 37.4 | 77.15 |
| MW-7 | 8/18/2010 | 114.55 | dry | |
| MW-7 | 11/2/2010 | 114.55 | dry | |
| MW-7 | 12/28/2010 | 114.55 | dry | |
| MW-7 | 2/23/2011 | 114.55 | 37.95 | 76.6 |
| MW-7 | 5/5/2011 | 114.55 | 33.15 | 81.4 |
| MW-7 | 8/16/2011 | 114.55 | 34.92 | 79.63 |
| MW-7 | 11/8/2011 | 114.55 | dry | |
| MW-7 | 2/27/2012 | 114.55 | 38.04 | 76.51 |
| MW-7 | 5/21/2012 | 114.55 | 36.95 | 77.6 |
| MW-7 | 8/9/2012 | 114.55 | dry | |
| MW-7 | 11/19/2012 | 114.55 | dry | |
| MW-7 | 2/21/2013 | 114.55 | 37.21 | 77.34 |
| MW-7 | 5/15/2013 | 114.55 | 37.55 | 77 |
| MW-7 | 8/15/2013 | 114.55 | dry | |
| MW-7 | 11/7/2013 | 114.55 | dry | |
| MW-7 | 2/25/2014 | 114.55 | dry | |
| MW-7 | 5/22/2014 | 114.55 | dry | |
| MW-7 | 8/27/2014 | 114.55 | dry | |
| MW-7 | 11/12/2010 | 114.55 | dry | |
| MW-7 | 2/26/2015 | 114.55 | dry | |
| MW-7 | 5/13/2015 | 114.55 | dry | |
| MW-7 | 8/4/2015 | 114.55 | dry | |
| MW-7 | 11/5/2015 | 114.55 | dry | |
| MW-7 | 2/4/2016 | 114.55 | dry | |
| MW-7 | 6/30/2016 | 114.55 | dry | |
| MW-7 | 8/25/2016 | 114.55 | dry | |
| MW-7 | 11/17/2016 | 114.55 | dry | |
| MW-7 | 3/7/2017 | 114.55 | 32.01 | 82.54 |
| MW-7 | 6/27/2017 | 114.55 | 33.57 | 80.98 |

| Well | Date | TOC Elevation (feet msl) | DTW (feet btoc) | Water Surface Elevation (feet msl) |
|-------------|-------------|---|----------------------------|---|
| MW-7 | 8/23/2017 | 114.55 | 36.69 | 77.86 |
| MW-7 | 11/14/2017 | 114.55 | 38.26 | 76.29 |
| MW-7 | 2/21/18 | 114.55 | 38.42 | 76.13 |
| MW-7 | 5/24/18 | 114.55 | 39.35 | 75.20 |
| MW-7 | 9/27/18 | 114.55 | dry | |
| MW-7 | 12/28/18 | 114.55 | dry | |
| MW-7 | 2/28/19 | 114.55 | 34.9 | 79.65 |
| MW-7 | 6/18/19 | 114.55 | 31.85 | 82.70 |
| MW-7 | 9/3/19 | 114.55 | dry | |
| MW-7 | 12/3/19 | 114.55 | 37.39 | 77.16 |
| MW-7 | 2/13/20 | 114.55 | 36.87 | 77.68 |
| MW-7 | 4/8/20 | 114.55 | 36.5 | 78.05 |
| MW-7 | 9/16/20 | 114.55 | 38.45 | 76.10 |
| MW-7 | 12/8/20 | 114.55 | dry | |
| MW-7 | 3/1/21 | 114.55 | dry | |

Table 3
Groundwater Flow Direction and Gradient
Wild Wings Water Recycling Facility, Yolo County, CA

| Sample Date | Water Surface Elevation ¹ | | | Gradient (ft/ft) | Flow Direction (degrees) ² |
|-------------|--------------------------------------|-------|-------|------------------|---------------------------------------|
| | MW-1 | MW-5R | MW-4 | | |
| 6/15/2004 | 93.41 | 86.05 | 76.12 | 0.006 | 65 |
| 3/29/2005 | 95.6 | 87.77 | 77.88 | 0.006 | 64.2 |
| 6/16/2005 | 96.6 | 89.8 | 78.78 | 0.006 | 67.3 |
| 9/29/2005 | 94.47 | 84.69 | n/a | n/a | n/a |
| 12/6/2005 | 94.82 | 84.64 | 74.11 | 0.007 | 61.7 |
| 2/16/2006 | 96.23 | 89.4 | 78.4 | 0.006 | 67.2 |
| 5/16/2006 | 98.97 | 88.37 | 83.1 | 0.006 | 53.3 |
| 8/21/2006 | 96.49 | 89.3 | 78.46 | 0.006 | 66.4 |
| 11/20/2006 | 95.95 | 86.47 | 78.91 | 0.006 | 58.5 |
| 2/8/2007 | 94.85 | 86.45 | 79.86 | 0.005 | 58.3 |
| 5/7/2007 | 95.43 | 87 | 79.79 | 0.005 | 59.4 |
| 8/29/2007 | 93.84 | 82.45 | 74.58 | 0.007 | 56.9 |
| 2/21/2008 | 96.26 | 87.92 | 79.51 | 0.006 | 61.4 |
| 5/27/2008 | 96.52 | 87.36 | 78.37 | 0.006 | 61.1 |
| 8/27/2008 | 95.73 | 84.01 | 75.06 | 0.007 | 58 |
| 11/24/2008 | 93.79 | 83.58 | 74.64 | 0.007 | 59.7 |
| 2/18/2009 | 95.5 | 84.69 | 75.42 | 0.007 | 59.4 |
| 5/21/2009 | 94.9 | 84.88 | 76.27 | 0.006 | 59.4 |
| 8/4/2009 | 93.26 | 82.32 | 71.17 | 0.008 | 61.5 |
| 11/5/2009 | 91.88 | 80.22 | 69.71 | 0.008 | 60 |
| 2/8/2010 | 94.17 | 83.02 | 71.4 | 0.008 | 61.8 |
| 5/7/2010 | 94.37 | 85.65 | 74.77 | 0.007 | 64 |
| 8/18/2010 | 95 | 85.27 | 72.66 | 0.008 | 64.5 |
| 11/2/2010 | 94.22 | 82.89 | 71.66 | 0.008 | 61.2 |
| 12/28/2010 | 95.46 | 83.89 | 72.7 | 0.008 | 60.9 |
| 2/23/2011 | 94.89 | 85.32 | 74.4 | 0.007 | 62.9 |
| 5/5/2011 | 96.78 | 90.77 | 78.67 | 0.006 | 69.9 |
| 8/16/2011 | 95.99 | 88.64 | 75.69 | 0.007 | 68.3 |
| 11/8/2011 | 94.27 | 85.28 | 74.07 | 0.007 | 64 |
| 2/27/2012 | 93.38 | 85.11 | 75.99 | 0.006 | 62.5 |
| 5/21/2012 | 93.42 | 86.82 | 76.15 | 0.006 | 67.3 |
| 8/9/2012 | 92.38 | 84.74 | 72.63 | 0.007 | 67 |
| 11/19/2012 | 91.83 | 83.31 | 70.93 | 0.007 | 65.9 |
| 2/21/2013 | 94.12 | 86.39 | 74.81 | 0.007 | 66.3 |
| 5/15/2013 | 94.49 | 85.73 | 74.02 | 0.007 | 64.9 |
| 8/15/2013 | 93.38 | 83.87 | 70.04 | 0.008 | 66 |
| 11/7/2013 | 92.53 | 82.99 | 68.72 | 0.008 | 66.3 |
| 2/25/2014 | 91.84 | 83.14 | 69.83 | 0.007 | 66.6 |
| 5/22/2014 | 91 | 81.3 | 69.63 | 0.007 | 63.6 |
| 8/27/2014 | 89.57 | 76.16 | 65.22 | 0.009 | 58.8 |
| 11/12/2014 | 89.29 | 77.08 | 64.35 | 0.009 | 61.8 |
| 2/26/2015 | 91.34 | 82.03 | 66.86 | 0.008 | 67.4 |
| 5/13/2015 | 90.62 | 82.39 | 66.81 | 0.008 | 69.2 |
| 8/4/2015 | 90.19 | 82.62 | 65.29 | 0.008 | 71.3 |
| 11/5/2015 | 89.32 | 80.12 | 63.97 | 0.009 | 68.3 |
| 2/4/2016 | 90.89 | 81.66 | 64.31 | 0.009 | 69.1 |
| 6/30/2016 | 91.85 | 84.36 | 66.49 | 0.009 | 71.8 |
| 8/25/2016 | 91.63 | 83.19 | 65.5 | 0.009 | 70.3 |
| 11/17/2016 | 91.32 | 83.89 | 65.17 | 0.009 | 72.4 |
| 3/7/2017 | 100.04 | 93.34 | 72.25 | 0.009 | 74.7 |
| 6/27/2017 | 98.08 | 90.46 | 73.66 | 0.008 | 71.0 |
| 8/23/17 | 96.13 | 87.31 | 72.12 | 0.006 | 74.0 |
| 11/14/2017 | 95.15 | 85.73 | 70.73 | 0.006 | 75.0 |
| 2/21/2018 | 93.28 | 85.03 | 70.73 | 0.006 | 72.0 |
| 5/24/2018 | 93.19 | 87.39 | 71.02 | 0.006 | 79.0 |
| 9/27/2018 | 92.15 | 83.77 | 67.60 | 0.005 | 71.1 |
| 12/28/2018 | 94.88 | 84.72 | 67.29 | 0.007 | 69.0 |
| 2/28/2019 | 97.83 | 89.83 | 71.31 | 0.005 | 71.3 |
| 6/18/2019 | 98.31 | 93.73 | 76.31 | 0.006 | 90.3 |
| 9/3/2019 | 96.53 | 93.70 | 74.14 | 0.007 | 90.3 |
| 12/3/2019 | 95.24 | 86.68 | 72.66 | 0.006 | 67.4 |
| 3/6/2020 | 94.72 | 86.52 | 74.13 | 0.005 | 67.7 |
| 4/8/2020 | 94.54 | 87.27 | 74.09 | 0.005 | 67.7 |
| 9/16/2020 | 93.03 | 85.21 | 69.29 | 0.008 | 63.4 |
| 12/8/2020 | 92.41 | 84.34 | 67.77 | 0.008 | 71.2 |
| 3/3/2021 | 91.89 | 84.09 | 68.13 | 0.008 | 71.2 |

¹ Groundwater elevations from 6/15/04 to 2/21/08 were provided by DelTech; groundwater elevations from 5/27/08 to 3/7/2017 were provided by GEI; groundwater elevations from 6/27/2017 to 6/30/18 by SSAL; groundwater elevations from 9/27/2018 through present provided by CRWA.

² Measured clockwise with North as 0.0 degrees, using graphical methods perpendicular to groundwater contours.
 TOC = Top of Casing
 msl = mean sea level
 DTW = depth to water
 btoc = below top of casing

| Sampling Point | Sample Date | Lab | pH Std Unit | TDS mg/L | Na (d) mg/L | Cl mg/L | B (d) mg/L | Fe (d) mg/L | Mn (d) mg/L | NO3-N mg/L | NO2-N mg/L | NH3-N mg/L | Nitrogen (total) mg/L | (fecal) (MPN/100 mL) | (E. coli) (EPA 601) ug/L | Notes | | |
|---------------------------------|--------------|-----|-------------|----------|-------------|---------|------------|-------------|-------------|---------------------|------------|------------|-----------------------|----------------------|--------------------------|-------|-------|---|
| Recommended | WO Objective | | 6.5-8.5 | 450 | 69 | 106 | 0.6 | 0.3 | 0.05 | 10 | 1 | 0.5 | 10 | ND | ND | ND | 100 | |
| Interim Limitation ² | Background | | 7.6 | 1100 | 155 | 138 | - | <0.1 | 0.64 | 18 | - | 0.5 | - | <2.0 | <2.0 | - | - | - |
| MW-2 | 6/27/2017 | CLS | 6.9 | 940 | 160 | 130 | 5.5 | <0.10 | <0.02 | 16 | -- | 0.12 | 16 | 7.8 | - | - | <0.50 | |
| MW-2 | 8/23/2017 | CLS | 7.1 | 960 | 180 | 130 | 6.3 | <0.10 | <0.02 | 18 | <0.40 | <0.10 | 18 | 17 | - | - | <0.50 | |
| MW-2 | 11/14/2017 | CLS | 7.1 | 1000 | 170 | 140 | 6.2 | <0.10 | <0.02 | 21 | <0.40 | 0.1 | 21 | 4.5 | - | - | <0.50 | |
| MW-2 | 2/21/2018 | CLS | 7.1 | 1000 | 160 | 130 | 6.3 | <0.10 | <0.02 | 19 | <0.40 | <0.10 | 19 | 7.8 | - | - | <0.50 | |
| MW-2 | 5/24/2018 | CLS | 7.1 | 970 | 150 | 130 | 6.1 | <0.10 | <0.02 | 18 | <0.40 | <0.10 | 18 | <1.8 | - | - | <0.50 | |
| MW-2 | 9/27/18 | CLS | 7.03 | 990 | 170 | - | 6.0 | <0.10 | <0.02 | 16 | <0.40 | <0.10 | 16 | <1.8 | - | - | <0.50 | |
| MW-2 | 2/28/19 | CLS | 7.17 | 990 | 160 | - | 5.7 | <0.10 | <0.02 | 14 | <0.40 | <0.10 | 14 | 240 | - | - | <0.50 | |
| MW-2 | 2/28/19 | CLS | 7.17 | 990 | 160 | - | 5.7 | <0.10 | <0.02 | 14 | <0.40 | <0.10 | 14 | 240 | - | - | <0.50 | |
| MW-2 | 6/26/19 | CLS | 7.47 | 1000 | 150 | 110 | 5.9 | <0.10 | <.01 | 13 | <.40 | <.10 | 13 | <1.8 | - | - | 9.6 | |
| MW-2 | 9/4/19 | CLS | 7.17 | 1200 | 170 | 140 | 5.8 | <0.10 | <0.02 | 20* | * | <0.10 | 20 | <1.8 | - | - | 23.6 | |
| MW-2 | 12/4/19 | CLS | 7.25 | 1000 | 200 | 150 | 5.9 | <0.10 | <0.02 | 19 | 0.72 | <0.10 | 22 | <1.8 | - | - | 5.4 | |
| MW-2 | 3/6/20 | CLS | 7.07 | 1000 | 160 | 60 | 5.7 | <0.10 | <0.02 | 8.7 | <0.40 | <0.10 | 9.1 | <1.8 | - | - | <0.50 | |
| MW-2 | 4/10/20 | CLS | 7.06 | 970 | 140 | 120 | 5.8 | <0.10 | <0.02 | 16 | <0.40 | <0.10 | 16 | <1.8 | - | - | 1.4 | |
| MW-2 | 9/17/20 | CLS | 7.18 | 1100 | 100 | 100 | 5.4 | <0.10 | <0.02 | 8.9 | <0.40 | <0.10 | 8.9 | <1.8 | - | - | 3.6 | |
| MW-2 | 12/9/20 | CLS | 7.19 | 1100 | 110 | 130 | 5.2 | <0.10 | <0.02 | 20 | <0.40 | <0.10 | 20 | <1.8 | - | - | <0.50 | |
| MW-2 | 3/4/21 | CLS | 7.25 | 1200 | 140 | 130 | 5.7 | <0.10 | <0.02 | 19 | <0.40 | <0.10 | 19 | <1.8 | - | - | 1.4 | |
| MW-3 | 6/15/2004 | STL | 7.7 | 435 | 90.6 | 34.8 | 1.7 | <0.10 | - | 1.7 | <0.05 | <0.10 | 1.7 | 23 | <1.1 | <1.1 | <0.5 | |
| MW-3 | 3/29/2005 | BSK | 7.8 | 390 | 96 | 38 | 1.5 | <0.05 | <0.01 | 2.9 | <0.05 | <1 | 2.9 | >23.0 | 1.1 | - | <0.5 | |
| MW-3 | 6/16/2005 | BSK | 7.6 | 380 | 81 | 26 | 1.2 | <0.05 | <0.01 | 0.7 | <0.10 | <1 | 0.7 | 5.1 | <1.1 | - | 1.6 | 3 |
| MW-3 | 9/29/2005 | BSK | 7.8 | 620 | 120 | 57 | 2.0 | <0.05 | <0.01 | 1.8 | <0.10 | <1 | 1.8 | >23.0 | 12 | - | 0.79 | 3 |
| MW-3 | 12/6/2005 | BSK | 8.1 | 610 | 140 | 62 | 2.1 | <0.05 | <0.01 | 1.6 | <0.10 | <1 | 1.6 | >23.0 | 3.6 | 3.6 | 5.4 | 3 |
| MW-3 | 2/16/2006 | BSK | 7.9 | 380 | 74 | 31 | 1.1 | 0.1 | <0.01 | 1.4 | <0.05 | <1 | 1.4 | 16.1 | 1.1 | - | <0.5 | |
| MW-3 | 5/16/2006 | BSK | 8.0 | 420 | 72 | 32 | 1.1 | <0.05 | <0.01 | 1.6 | <0.05 | <1 | 1.6 | >23.0 | 5.1 | - | 2.6 | 3 |
| MW-3 | 8/21/2006 | BSK | 8.0 | 480 | 110 | 49 | 1.7 | 0.15 | <0.01 | 0.9 | <0.05 | <0.10 | - | <1.1 | <1.1 | - | <0.5 | |
| MW-3 | 11/20/2006 | BSK | - | - | - | - | - | - | - | - | - | - | - | >23.0 | <1.1 | - | - | |
| MW-3 | 2/16/2007 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-3 | 5/7/2007 | BSK | 7.9 | 550 | 160 | 65 | 2.0 | <0.05 | <0.01 | 0.54 | <0.05 | <1.0 | - | 2.2 | <1.1 | - | <0.5 | |
| MW-3 | 8/29/2007 | BSK | 7.9 | 690 | 160 | 92 | 2.4 | <0.05 | <0.01 | 1.4 | * | <1.0 | 1.4 | >23.0 | <1.1 | - | <0.5 | |
| MW-3 | 11/28/2007 | BSK | 7.8 | 770 | 170 | 94 | 2.4 | 0.27 | 0.45 | 2.3 | * | <1.0 | 5.3 | 23 | 2.2 | - | <0.5 | |
| MW-3 | 2/21/2008 | BSK | - | - | - | - | - | - | - | - | - | - | - | 12 | <1.1 | - | - | |
| MW-3 | 5/28/2008 | CLS | 7.0 | 530 | 120 | 56 | 1.7 | 7.1 | 0.17 | 2.1 | <0.10 | <0.10 | 9.4 | 280 | - | - | <0.5 | |
| MW-3 | 8/27/2008 | CLS | 7.0 | 640 | 160 | 69 | 2.0 | <0.10 | <0.02 | 2.0 | <0.10 | 0.12 | 2.7 | 540 | - | - | <0.5 | |
| MW-3 | 11/25/2008 | CLS | 7.1 | 680 | 170 | 67 | 2.1 | 0.34 | 0.19 | 0.58 | <0.10 | 0.17 | 1.6 | 240 | - | - | <0.5 | |
| MW-3 | 2/19/2009 | CLS | - | 580(5) | 130 | 75 | 1.8 | 0.69 | 0.14 | 1.3 | <0.10 | 0.14 | 2.6 | >1600 | - | - | <0.5 | |
| MW-3 | 5/21/2009 | CLS | 7.1 | 500 | 130 | 53 | 1.6 | 20 | 0.68 | <0.5 | <0.10 | <0.10 | 1.2 | 79 | - | - | <0.5 | |
| MW-3 | 8/5/2009 | CLS | 7.0 | 690 | 130 | 73 | 1.8 | 0.31 | 0.04 | 0.55 | <0.10 | 0.14 | 1.8 | 430 | - | - | <0.5 | |
| MW-3 | 11/5/2009 | CLS | - | 600(5) | 160 | 77 | 2.1 | 0.33 | 0.25 | 1.0 | <0.10 | 0.64 | 2.8 | >1600 | - | - | <0.5 | |
| MW-3 | 2/8/2010 | CLS | 7.0 | 530 | 130 | 52 | 1.7 | 0.55 | 0.04 | 0.69 | <0.10 | 0.15 | 1.5 | 1600 | - | - | <0.5 | |
| MW-3 | 5/7/2010 | CLS | 6.9 | 580 | 140 | 78 | 1.6 | <0.10 | 0.06 | 1.1 | <0.10 | 0.26 | 2.6 | 23 | - | - | <0.5 | |
| MW-3 | 8/18/2010 | CLS | 7.1 | 670 | 200 | 87 | 2.4 | 2.7 | 0.50 | 1.2 | <0.10 | 0.93 | 3.4 | 350 | - | - | 5.2 | |
| MW-3 | 11/2/2010 | CLS | 7.0 | 870 | 200 | 120 | 2.8 | 0.28 | 0.46 | 5.3 | <0.10 | 0.36 | 7.2 | 280 | - | - | 1.5 | |
| MW-3 | 2/24/2011 | CLS | 6.7 | 590 | 140 | 73 | 1.8 | <0.10 | <0.02 | 1.6 | <0.10 | 0.17 | 2.5 | 1600 | - | - | <0.5 | |
| MW-3 | 5/5/2011 | CLS | 6.9 | 650 | 130 | 95 | 1.9 | 0.11 | 0.03 | 4.0 | <0.10 | 0.3 | 4.6 | 33 | - | - | <0.5 | |
| MW-3 | 8/16/2011 | CLS | 7.4 | 910 | 170 | 120 | 3.2 | <0.10 | <0.02 | 5.0 | <0.10 | <0.10 | 5.4 | 94 | - | - | <0.5 | |
| MW-3 | 11/8/2011 | CLS | 7.0 | 920 | 180 | 130 | 2.7 | 2.0 | 0.35 | 3.7 | <0.10 | 0.56 | 4.9 | 63 | - | - | <0.5 | |
| MW-3 | 2/27/2012 | CLS | 6.9 | 740 | 180 | 110 | 2.4 | 5.5 | 0.33 | 2 | <0.10 | 0.43 | 3.2 | 49 | - | - | <0.5 | |
| MW-3 | 5/21/2012 | CLS | 7.0 | 760 | 160 | 98 | 2.3 | <0.10 | 0.03 | 2.1 | <0.10 | 0.13 | 3 | 13 | - | - | <0.5 | |
| MW-3 | 8/9/2012 | CLS | 7.3 | 850 | 180 | 110 | 2.3 | 0.22 | 0.03 | 2.9 | <0.10 | 0.37 | 3.5 | <1.8 | - | - | 1.7 | |
| MW-3 | 11/19/2012 | CLS | 7.0 | 900 | 180 | 120 | 2.3 | 0.59 | 0.18 | 4.1 | <0.10 | 0.31 | 5.4 | 130 | - | - | <0.5 | |
| MW-3 | 2/21/2013 | CLS | 6.9 | 670 | 170 | 110 | 2.0 | 0.18 | 0.04 | 2.4 | <0.10 | 0.35 | 3.2 | 4 | - | - | <0.5 | |
| MW-3 | 5/15/2013 | CLS | 7.0 | 710 | 160 | 110 | 2.1 | <0.10 | 0.07 | 1.8 | <0.10 | <0.10 | 2.1 | <1.8 | - | - | 0.93 | |
| MW-3 | 8/16/2013 | CLS | 7.4 | 630(5) | 140 | 82 | 1.8 | 9.10 | 0.15 | 1.6 | <0.10 | 0.16 | 3.7 | <1.8 | - | - | 0.63 | |
| MW-3 | 11/7/2013 | CLS | 6.9 | 620 | 150 | 81 | 1.4 | <0.10 | 0.07 | 1.8 | <0.10 | 0.12 | 2.5 | <1.8 | - | - | <0.5 | |
| MW-3 | 2/25/2014 | CLS | 7.2 | 760 | 180 | 170 | 2.3 | 3.10 | 0.13 | 2.7 | <0.10 | 0.32 | 3.3 | >1600 | - | - | <0.5 | |
| MW-3 | 5/22/2014 | CLS | 7.0 | 860 | 170 | 170 | 2.3 | 0.96 | 0.03 | 1.9 | <0.10 | <0.10 | 2.3 | <1.8 | - | - | <0.5 | |
| MW-3 | 8/27/2014 | CLS | 7.1 | 900 | 150 | 170 | 1.9 | 0.55 | 0.13 | 1.8 | <0.10 | 0.2 | 2.4 | <1.8 | - | - | 0.62 | |
| MW-3 | 11/12/2014 | CLS | | | | | | | | No sample retrieved | | | | | | | | |
| MW-3 | 2/25/2015 | CLS | 7.0 | 650 | 130 | 110 | 1.9 | <0.10 | <0.02 | 1.1 | <0.10 | <0.10 | 1.7 | 920 | - | - | <0.5 | |
| MW-3 | 5/13/2015 | CLS | 7.0 | 700 | 140 | 150 | 1.7 | 0.26 | <0.02 | 2.4 | <0.10 | <0.10 | 2.6 | <1.8 | - | - | <0.5 | |
| MW-3 | 8/4/2015 | CLS | 7.0 | 700 | 150 | 120 | 1.9 | 16.00 | 0.32 | 2.1 | <0.10 | 0.3 | 2.7 | <1.8 | - | - | <0.5 | |

| Sampling Point | Sample Date | Lab | pH Std Unit | TDS mg/L | Na (d) mg/L | Cl mg/L | B (d) mg/L | Fe (d) mg/L | Mn (d) mg/L | NO3-N mg/L | NO2-N mg/L | NH3-N mg/L | Nitrogen (total) mg/L | (fecal) (MPN/100 mL) | (E. coli) (EPA 601) ug/L | Notes | | |
|-------------------------|--------------|-----|-------------|----------|-------------|---------|------------|-------------|-------------|---------------------|------------|------------|-----------------------|----------------------|--------------------------|-------|-------|---|
| Recommended | WO Objective | | 6.5-8.5 | 450 | 69 | 106 | 0.6 | 0.3 | 0.05 | 10 | 1 | 0.5 | 10 | ND | ND | ND | 100 | |
| Interim | Background | | 7.6 | 1100 | 155 | 138 | - | <0.1 | 0.64 | 18 | - | 0.5 | - | <2.0 | <2.0 | - | - | - |
| Limitation ² | | | | | | | | | | | | | | | | | | |
| MW-6 | 5/5/2011 | CLS | 7.1 | 990 | 150 | 200 | 4.1 | <0.10 | <0.02 | 4.3 | <0.10 | <0.10 | 4.5 | <1.8 | - | - | <0.50 | |
| MW-6 | 8/16/2011 | CLS | 7.2 | 1100 | 160 | 200 | 4.5 | <0.10 | <0.02 | 9.9 | <0.10 | <0.10 | 9.9 | <1.8 | - | - | <0.50 | |
| MW-6 | 11/8/2011 | CLS | 7.0 | 990 | 160 | 140 | 4.6 | <0.10 | <0.02 | 8 | <0.10 | <0.10 | 8.2 | <1.8 | - | - | <0.50 | |
| MW-6 | 2/27/2012 | CLS | 7.1 | 880 | 180 | 120 | 5.4 | <0.10 | <0.02 | 8.5 | <0.10 | 0.13 | 8.5 | <1.8 | - | - | <0.50 | |
| MW-6 | 5/21/2012 | CLS | 7.2 | 870 | 160 | 120 | 5.8 | 0.11 | <0.02 | 8.6 | <0.10 | 0.18 | 8.8 | <1.8 | - | - | <0.50 | |
| MW-6 | 8/9/2012 | CLS | 7.5 | 970 | 130 | 110 | 3.9 | <0.10 | <0.02 | 8.5 | <0.10 | 0.11 | 8.8 | <1.8 | - | - | <0.50 | |
| MW-6 | 11/19/2012 | CLS | 7.1 | 950 | 170 | 100 | 5.1 | <0.10 | <0.02 | 8.1 | <0.10 | <0.10 | 8.3 | <1.8 | - | - | <0.50 | |
| MW-6 | 2/21/2013 | CLS | 6.9 | 900 | 160 | 110 | 5.3 | <0.10 | <0.02 | 7.9 | <0.10 | 0.11 | 7.9 | <1.8 | - | - | <0.50 | |
| MW-6 | 5/15/2013 | CLS | 7.0 | 890 | 160 | 120 | 5.1 | <0.10 | <0.02 | 8.9 | <0.10 | 0.18 | 9.0 | <1.8 | - | - | <0.50 | |
| MW-6 | 8/15/2013 | CLS | 7.1 | 890 | 150 | 110 | 5.0 | <0.10 | <0.02 | 8.9 | <0.10 | <0.10 | 9.3 | <1.8 | - | - | <0.50 | |
| MW-6 | 11/7/2013 | CLS | 7.0 | 850 | 180 | 110 | 3.6 | <0.10 | <0.02 | 8.8 | <0.10 | 0.18 | 9.0 | <1.8 | - | - | <0.50 | |
| MW-6 | 2/25/2014 | CLS | 7.2 | 910 | 140 | 100 | 5.4 | <0.10 | <0.02 | 8.4 | <0.10 | <0.10 | 8.6 | <1.8 | - | - | <0.50 | |
| MW-6 | 5/22/2014 | CLS | 7.1 | 880 | 150 | 93 | 5.3 | <0.10 | <0.02 | 8.5 | <0.10 | <0.10 | 8.8 | <1.8 | - | - | <0.50 | |
| MW-6 | 8/27/2014 | CLS | | | | | | | | No sample retrieved | | | | | | | | |
| MW-6 | 11/12/2014 | CLS | | | | | | | | No sample retrieved | | | | | | | | |
| MW-6 | 2/26/2015 | CLS | 7.1 | 850 | 140 | 94 | 5.2 | 1.0 | 0.04 | 8.3 | <0.10 | <0.10 | 8.4 | <1.8 | - | - | <0.50 | |
| MW-6 | 5/13/2015 | CLS | 7.2 | 860 | 130 | 87 | 4.8 | <0.10 | <0.02 | 8.5 | <0.10 | <0.10 | 8.6 | <1.8 | - | - | <0.50 | |
| MW-6 | 8/4/2015 | CLS | 7.3 | 810 | 140 | 90 | 4.6 | <0.10 | <0.02 | 7.7 | <0.10 | <0.10 | 7.9 | <1.8 | - | - | <0.50 | |
| MW-6 | 11/5/2015 | CLS | 7.2 | 830 | 160 | 81 | 5.0 | <0.10 | <0.02 | 8.5 | <0.10 | <0.10 | 8.6 | <1.8 | - | - | <0.50 | |
| MW-6 | 2/4/2016 | CLS | 7.2 | 810 | 140 | 82 | 4.7 | <0.10 | <0.02 | 8.9 | <0.40 | <0.10 | 9.0 | <1.8 | - | - | <0.50 | |
| MW-6 | 6/30/2016 | CLS | 7.1 | 780 | 120 | 87 | 4.3 | <0.10 | <0.02 | 8.5 | <0.40 | <0.10 | 8.5 | <1.8 | - | - | 0.80 | |
| MW-6 | 8/25/2016 | CLS | 7.1 | 730 | 150 | 86 | 4.3 | <0.10 | <0.02 | 8.5 | <0.40 | <0.10 | 8.5 | <1.8 | - | - | 3.3 | |
| MW-6 | 11/17/2016 | CLS | 7.3 | 760 | 140 | 86 | 4.2 | <0.10 | <0.02 | 9 | <0.40 | 0.11 | 9.2 | <1.8 | - | - | <0.50 | |
| MW-6 | 3/7/2017 | CLS | 7.1 | 1000 | 150 | 260 | 3.8 | <0.10 | <0.02 | 11 | <0.40 | 0.11 | 11.0 | <1.8 | - | - | <0.50 | |
| MW-6 | 6/27/2017 | CLS | 6.9 | 910 | 150 | 190 | 3.8 | <0.10 | <0.02 | 9.9 | <0.40 | 0.18 | 10.0 | 14 | - | - | <0.50 | |
| MW-6 | 8/23/2017 | CLS | 7.2 | 920 | 150 | 160 | 4.2 | <0.10 | <0.02 | 11 | <0.40 | 0.16 | 11.0 | <1.8 | - | - | <0.50 | |
| MW-6 | 11/14/2017 | CLS | 7.0 | 880 | 150 | 130 | 4.3 | <0.10 | <0.02 | 12 | <0.40 | <0.10 | 12 | <1.8 | - | - | <0.50 | |
| MW-6 | 2/21/2018 | CLS | 7.1 | 920 | 150 | 120 | 4.6 | <0.10 | <0.02 | 14 | <0.40 | <0.10 | 14 | 4.5 | - | - | <0.50 | |
| MW-6 | 5/24/2018 | CLS | 7.1 | 950 | 140 | 120 | 4.8 | <0.10 | <0.02 | 14 | <0.40 | <0.10 | 14 | <1.8 | - | - | 0.8 | |
| MW-6 | 9/27/18 | CLS | 7.09 | 930 | 160 | - | 5.0 | <0.10 | <0.02 | 14 | <0.40 | <0.10 | 14 | 2.0 | - | - | 1.4 | |
| MW-6 | 9/27/18 | CLS | 7.11 | 860 | 150 | 120 | 4.7 | <0.10 | <0.02 | 12 | <0.40 | <0.10 | 12 | <1.8 | - | - | 3 | |
| MW-6 | 2/28/19 | CLS | 7.1 | 920 | 150 | - | 4.8 | <0.10 | <0.02 | 12 | <0.40 | <0.10 | 12 | 12 | - | - | 1.8 | |
| MW-6 | 6/26/19 | CLS | 7.27 | 1000 | 130 | 180 | 4.4 | <0.10 | <0.10 | 10 | <0.40 | <0.10 | 10 | <1.8 | - | - | 9.8 | |
| MW-6 | 9/18/19 | CLS | 7.11 | 960 | 140 | 140 | 4.5 | <0.10 | <0.02 | 12 | <0.40 | <0.10 | 12 | <1.8 | - | - | 23 | |
| MW-6 | 12/4/19 | CLS | 7.23 | 1000 | 190 | 170 | 4.7 | <0.10 | <0.02 | 13 | 0.9 | <0.10 | 16 | <1.8 | - | - | 8.7 | |
| MW-6 | 2/14/20 | CLS | 7.00 | 920 | 150 | 110 | 5.5 | <0.10 | <0.02 | 13 | <0.40 | <0.10 | 13 | <1.8 | - | - | 37 | |
| MW-6 | 4/23/20 | CLS | 7.20 | 950 | 110 | 120 | 4.8 | <0.10 | <0.02 | 14 | <0.40 | 0.24 | 14 | <1.8 | - | - | 1.2 | |
| MW-6 | 9/23/20 | CLS | 7.01 | 1000 | 140 | 120 | 4.9 | <0.10 | <0.02 | 15 | <0.40 | <0.10 | 15 | <1.8 | - | - | <0.50 | |
| MW-6 | 12/9/20 | CLS | 7.11 | 1000 | 100 | 130 | 5.0 | <0.10 | <0.02 | 16 | <0.40 | <0.10 | 16 | <1.8 | - | - | 1.2 | |
| MW-6 | 3/2/21 | CLS | 7.02 | 1100 | 140 | 150 | 5.2 | <0.10 | <0.02 | 17 | <0.40 | <0.10 | 17 | <1.8 | - | - | 3.8 | |
| MW-7 | 6/15/2004 | STL | 7.6 | 615 | 61.7 | 113 | 1.8 | 0.12 | - | 11.7 | <0.05 | <0.10 | 12.4 | | | | <0.5 | |
| MW-7 | 3/29/2005 | BSK | 7.9 | 540 | 79 | 88 | 2.2 | <0.05 | <0.01 | 7.2 | <0.10 | <1 | 7.2 | | | | <0.5 | |
| MW-7 | 6/16/2005 | BSK | 8.1 | 540 | 69 | 85 | 1.8 | <0.05 | <0.01 | 7.2 | <0.10 | <1 | 7.9 | | | | 0.74 | 3 |
| MW-7 | 9/29/2005 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 12/6/2005 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 2/16/2006 | BSK | 8.0 | 590 | 69 | 100 | 1.9 | <0.05 | <0.01 | 8.8 | 0.27 | <1 | 9.1 | | | | 1.7 | 3 |
| MW-7 | 5/16/2006 | BSK | 8.0 | 610 | 74 | 92 | 2.0 | <0.05 | <0.01 | 8.6 | <0.10 | <1 | 8.6 | | | | <0.5 | |
| MW-7 | 8/21/2006 | BSK | 8.0 | 530 | 60 | 81 | 1.6 | <0.05 | <0.01 | 6.8 | <0.05 | <0.10 | | | | | <0.5 | |
| MW-7 | 11/20/2006 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 2/16/2007 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 5/7/2007 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 8/29/2007 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 11/28/2007 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 2/21/2008 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 5/27/2008 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 8/27/2008 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 11/24/2008 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 2/18/2009 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 5/21/2009 | | | | | | | | | No sample retrieved | | | | | | | | |
| MW-7 | 8/4/2009 | | | | | | | | | No sample retrieved | | | | | | | | |

| Sampling Point | Sample Date | Lab | pH Std Unit | TDS mg/L | Na (d) mg/L | Cl mg/L | B (d) mg/L | Fe (d) mg/L | Mn (d) mg/L | NO3-N mg/L | NO2-N mg/L | NH3-N mg/L | Nitrogen (total) mg/L | (fecal) (MPN/100 mL) | (E. coli) (EPA 601) ug/L | Notes | |
|---------------------------------|--------------|-----|-------------|----------|-------------|---------|------------|-------------|-------------|---------------------|------------|------------|-----------------------|----------------------|--------------------------|-------|-------|
| Recommended | WO Objective | | 6.5-8.5 | 450 | 69 | 106 | 0.6 | 0.3 | 0.05 | 10 | 1 | 0.5 | 10 | ND | ND | ND | 100 |
| Interim Limitation ² | Background | | 7.6 | 1100 | 155 | 138 | - | <0.1 | 0.64 | 18 | - | 0.5 | - | <2.0 | <2.0 | - | - |
| MW-7 | 11/5/2009 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/8/2010 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/7/2010 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 8/18/2010 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 11/2/2010 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/23/2011 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/5/2011 | CLS | 7.1 | 660 | 87 | 100 | 1.8 | <0.10 | <0.02 | 7.2 | <0.10 | <0.10 | 7.4 | | | | <0.50 |
| MW-7 | 8/16/2011 | CLS | 7.4 | 680 | 95 | 100 | 1.9 | <0.10 | <0.02 | 6.6 | <0.10 | <0.10 | 6.9 | | | | <0.50 |
| MW-7 | 11/8/2011 | CLS | | | | | | | | | | | | | | | |
| MW-7 | 2/27/2012 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/21/2012 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 8/9/2012 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 11/19/2012 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/21/2013 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/15/2013 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 8/15/2013 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 11/7/2013 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/25/2014 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/22/2014 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 8/27/2014 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 11/12/2014 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/26/2015 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/13/2015 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 8/4/2015 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 11/5/2015 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/4/2016 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 6/30/2016 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 8/25/2016 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 11/17/2016 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 3/7/2017 | CLS | 7.3 | 670 | 100 | 120 | 2 | <0.10 | | 7.5 | | 0.16 | 7.8 | | | | 1.2 |
| MW-7 | 6/27/2017 | CLS | 7.0 | 590 | 93 | 89 | 1.7 | <0.10 | | 4.6 | | 0.19 | 4.9 | | | | <0.50 |
| MW-7 | 8/23/2017 | CLS | 7.3 | 620 | 99 | 56 | 2 | <0.10 | | 4.3 | | <0.10 | 4.4 | | | | <0.50 |
| MW-7 | 11/14/2017 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/21/2018 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 5/24/2018 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 9/27/18 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 12/28/18 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 12/28/18 | CLS | 7.22 | 660 | 63 | - | 1.5 | <0.10 | <0.02 | 4.8 | <0.40 | <0.10 | 4.8 | 2 | | | <0.50 |
| MW-7 | 6/26/19 | CLS | 7.36 | 560 | 86 | 70 | 1.5 | 0.91 | 0.16 | 3.2 | <0.40 | <0.10 | 3.3 | <1.8 | - | - | 1.3 |
| MW-7 | 9/3/19 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 12/4/19 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 2/14/20 | CLS | 7.11 | 570 | 93 | 93 | 2.0 | <0.10 | <0.02 | 5.0 | <0.40 | <0.10 | 5.6 | <1.8 | - | - | 13 |
| MW-7 | 4/23/20 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 4/23/20 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 12/9/20 | | | | | | | | | No sample retrieved | | | | | | | |
| MW-7 | 3/2/21 | | | | | | | | | No sample retrieved | | | | | | | |

Laboratory Notes:

STL = Severn Trent Laboratory of West Sacramento, CA; BSK = BSK Laboratories of Fresno, CA; TDS = total dissolved solids; NO3-N = nitrate as nitrogen; NO2-N = nitrite as nitrogen;

NH3-N = ammonia as nitrogen; (d) = dissolved fraction; TTHM = total trihalomethanes; nd = nondetect

italic font style = Analysis for magnesium, total Kjeldahl nitrogen, fecal coliform and E. coli organisms is not required by RWQCB Order R5-2002-0077.

1 = Total trihalomethanes consist of the sum of bromodichloromethane, bromoform, chloroform, and dibromochloromethane.

2 = See WDRs Item E. 1. Ground Water Limitations; WQ Objective = a variety of applicable regional water quality goals compiled by RWQCB staff; Background = Tolerance Limit (calculated from August 2001 borings and monitoring wells MW-1 and MW-5R)

3 (in Lab Notes column) = Chloroform detection; this compound was also detected in the laboratory method blank; this compound is a common laboratory contaminant.

4 = Nitrate (as nitrogen) laboratory result for 5/7/2007 at MW-4 is reported as shown on the laboratory report although the concentration is about four times higher than historic results. It is probable that the concentration was reported for nitrate (as nitrate). Due to the age of the sample, laboratory validation of the result could not be performed.

| Sampling Point | Sample Date | Lab | pH Std Unit | TDS mg/L | Na (d) mg/L | Cl mg/L | B (d) mg/L | Fe (d) mg/L | Mn (d) mg/L | NO3-N mg/L | NO2-N mg/L | NH3-N mg/L | Nitrogen (total) mg/L | (fecal) (MPN/100 mL) | (E. coli) (EPA 601) ug/L | Notes | |
|---|--------------|-----|-------------|----------|-------------|---------|------------|-------------|-------------|------------|------------|------------|-----------------------|----------------------|--------------------------|-------|-----|
| Recommended Interim Limitation ² | WO Objective | | 6.5-8.5 | 450 | 69 | 106 | 0.6 | 0.3 | 0.05 | 10 | 1 | 0.5 | 10 | ND | ND | ND | 100 |
| | Background | | 7.6 | 1100 | 155 | 138 | - | <0.1 | 0.64 | 18 | - | 0.5 | - | <2.0 | <2.0 | - | - |

5 = Sample was extracted/analyzed outside the EPA recommended holding time

6 = Measured in the field

7 = Calculated using field Electrical Conductivity measurement

* = Nitrate as nitrogen and Nitrite as Nitrogen results were combined as one

- = Sample not collected or not measured for this constituent

Notes on Laboratory Data depicted on Figures.

- MW-7 – Data for NO3, and TN for 5/7/2007 is not graphed due to concerns with data.
- MW-5R – Data for Chloride for 6/27/2017 is suspect (dilution factor?) but is shown on graph.
- Data reported as less than the laboratory reporting limit is shown on figures as "zero"

Table 5
Quality Assurance/Quality Control Samples
Wild Wings Water Recycling Facility, Yolo County, CA

| Sampling Point | Sample Date | Lab | TTHM ¹ (ug/L) | Lab Notes |
|----------------|-------------|-----|--------------------------|--------------|
| EB-1 | 11/17/2017 | CLS | 1.1 | - |
| | 3/7/2017 | CLS | 2.0 | - |
| | | | | |
| Trip Blanks | 11/17/2017 | CLS | <0.50 | - |
| | 3/7/2017 | CLS | <0.50 | - |
| | 6/28/2017 | CLS | <0.50 | - |
| | 8/23/2017 | CLS | <0.50 | - |
| | 2/21/2018 | CLS | <0.50 | - |
| | 5/24/2018 | CLS | <0.50 | Mislabeled 3 |
| | 9/27/2018 | CLS | <0.50 | - |
| | 2/28/2019 | CLS | <0.50 | - |
| | 6/19/2019 | CLS | <0.50 | - |
| | 9/4/2019 | CLS | 0.94 | - |
| | 9/18/2019 | CLS | 1.1 | - |
| | 12/4/2019 | CLS | <0.50 | - |
| | 2/14/2020 | CLS | <0.50 | - |
| | 3/6/2020 | CLS | <0.50 | - |
| | 4/23/2020 | CLS | <0.50 | - |
| | 9/17/2020 | CLS | <0.50 | - |
| | 9/23/2020 | CLS | <0.50 | - |
| | 12/9/2020 | CLS | <0.50 | - |
| | 3/2/2021 | CLS | <0.50 | |
| | 3/4/2021 | CLS | <0.50 | - |

TTHM = total trihalomethanes; nd = nondetect

1 = Total trihalomethanes consists of the sum of bromodichloromethane, bromoform, chloroform, and dibromochloromethane

CHARTS

Chart 1
Water Levels 2004-21

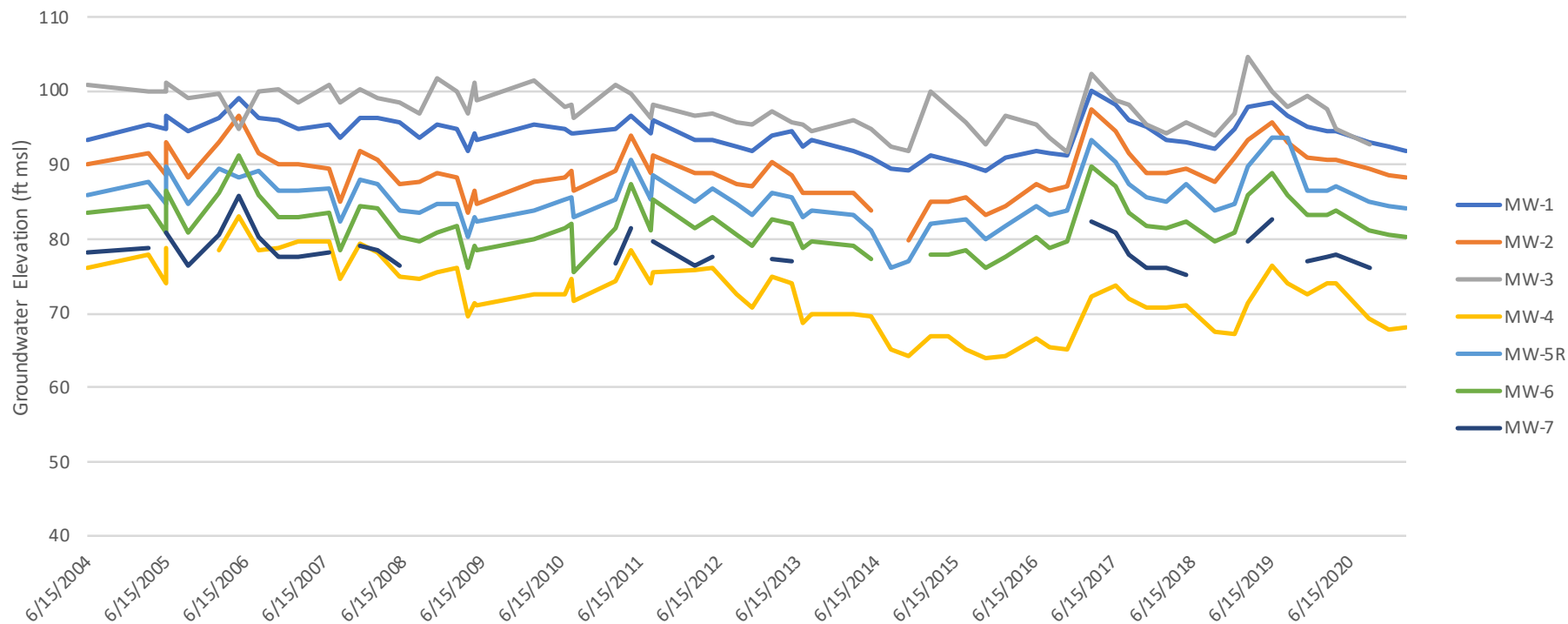


Chart 2
pH Trends 2004-21

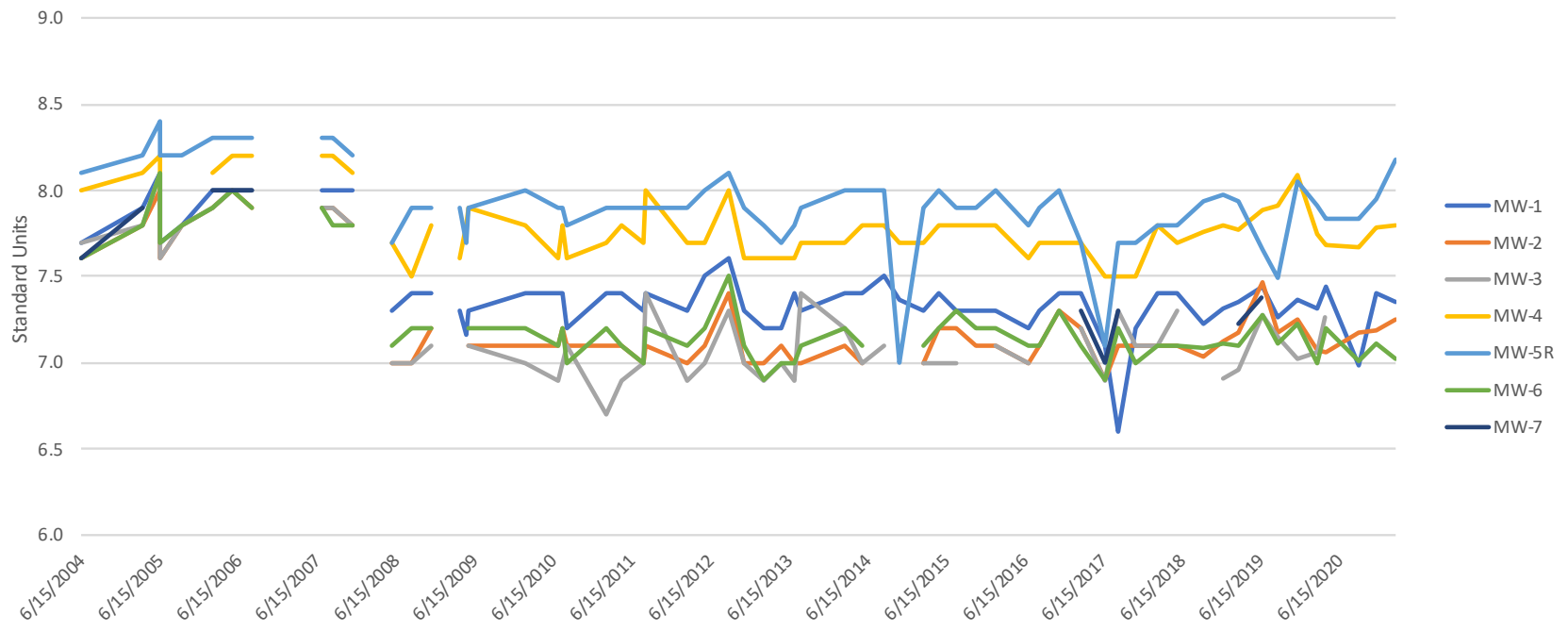


Chart 3
TDS Trends 2004-21

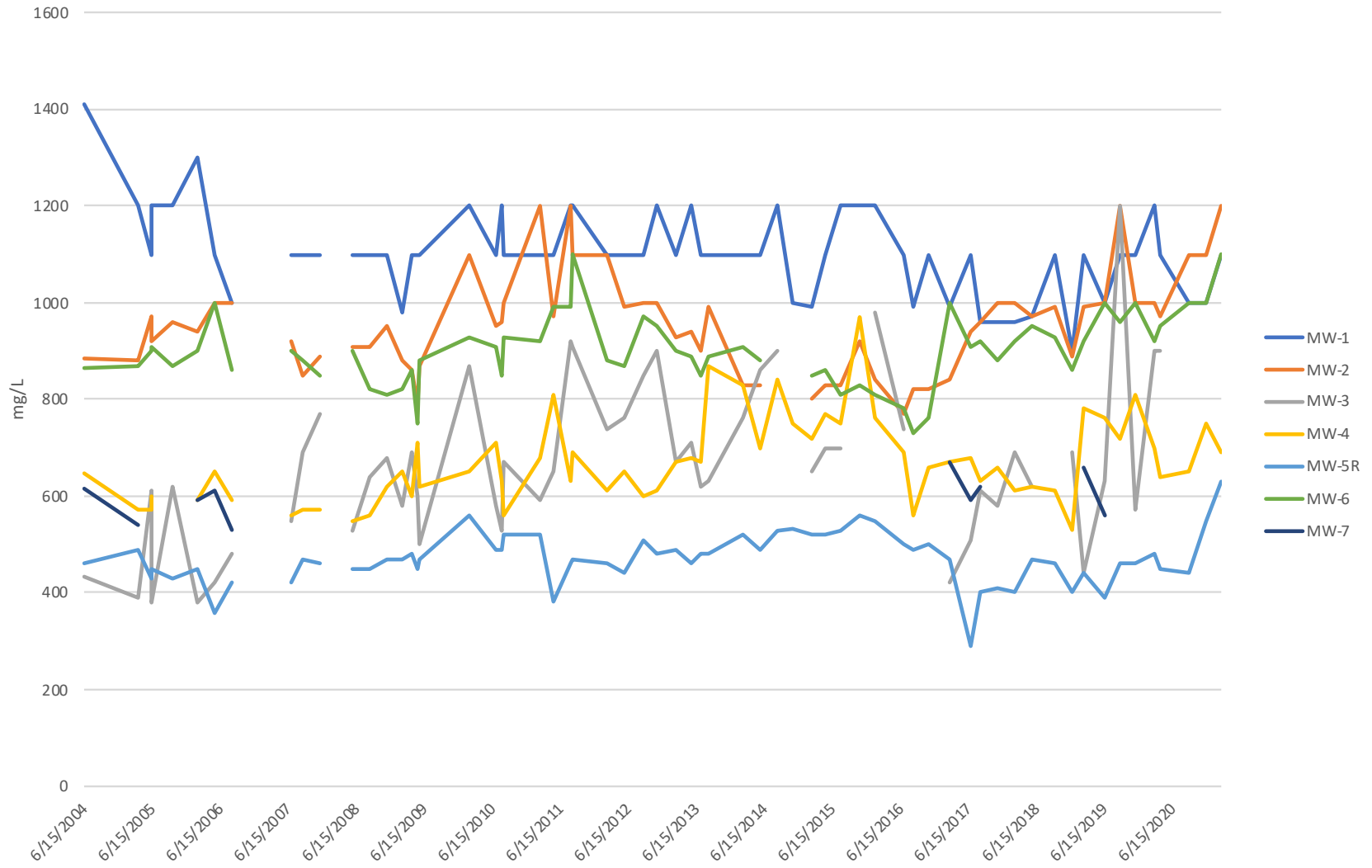


Chart 4
Na Trends 2004-21

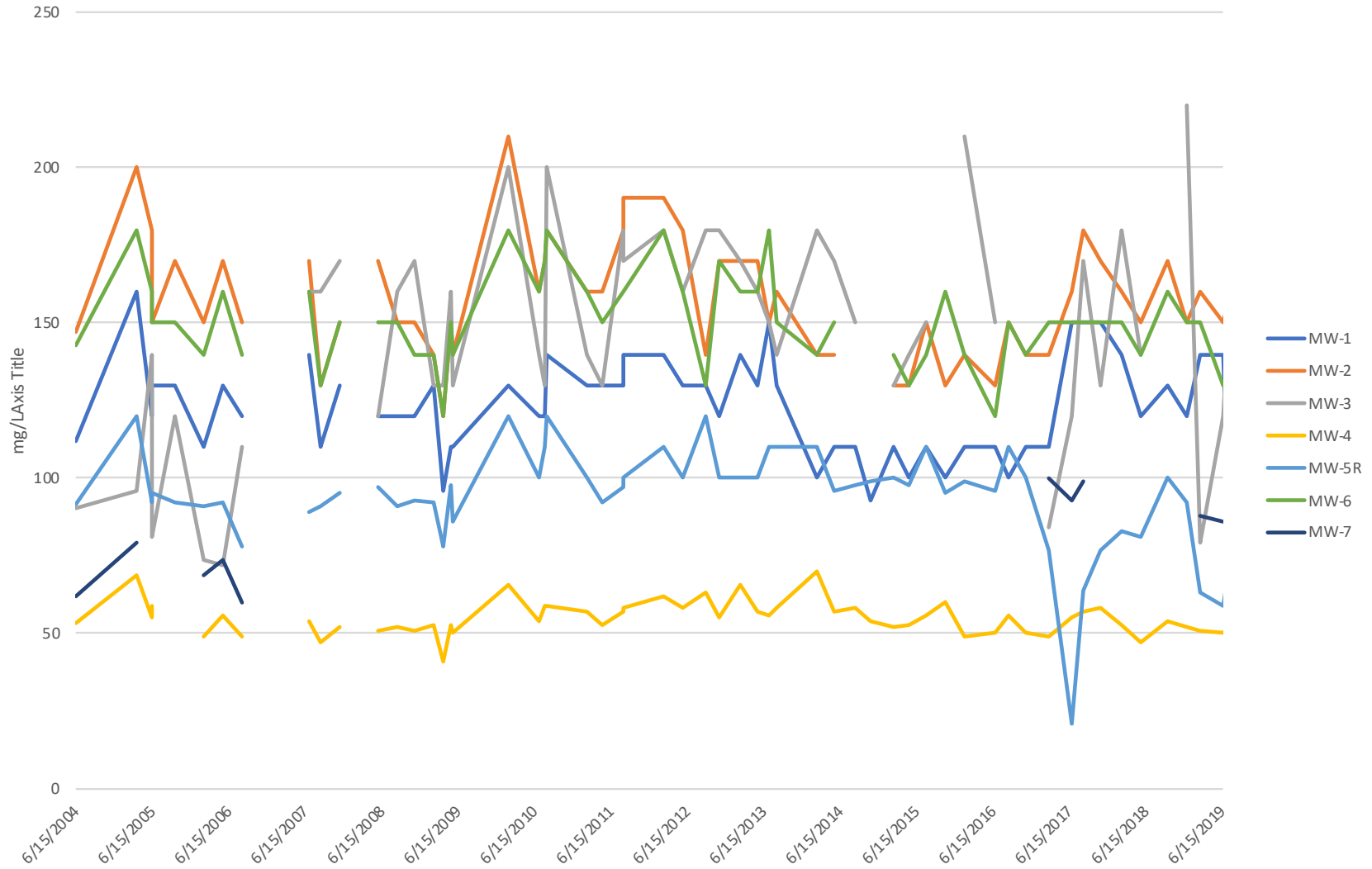


Chart 5
Cl Trends 2004-21

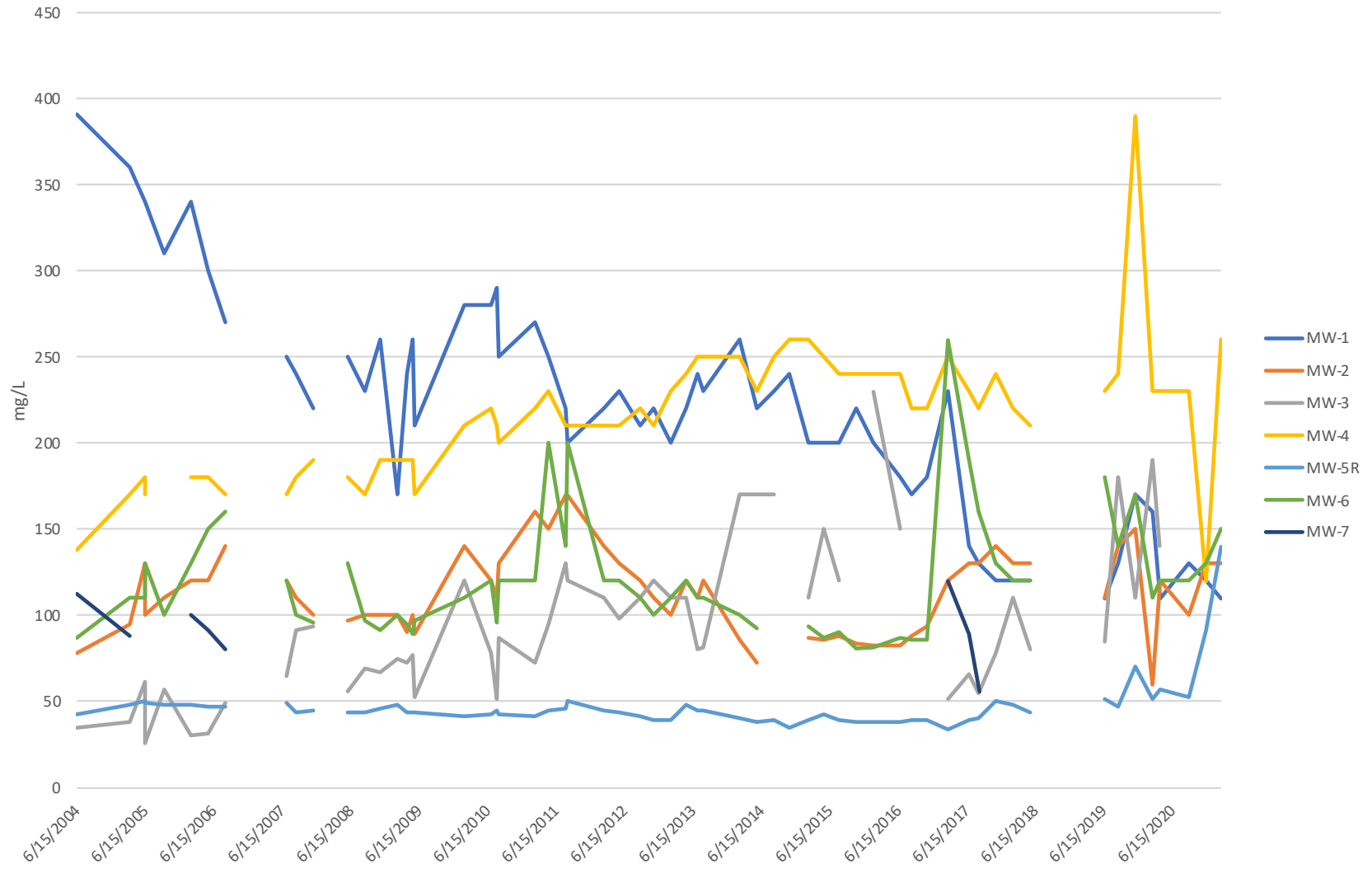


Chart 6
B Trends 2004-21

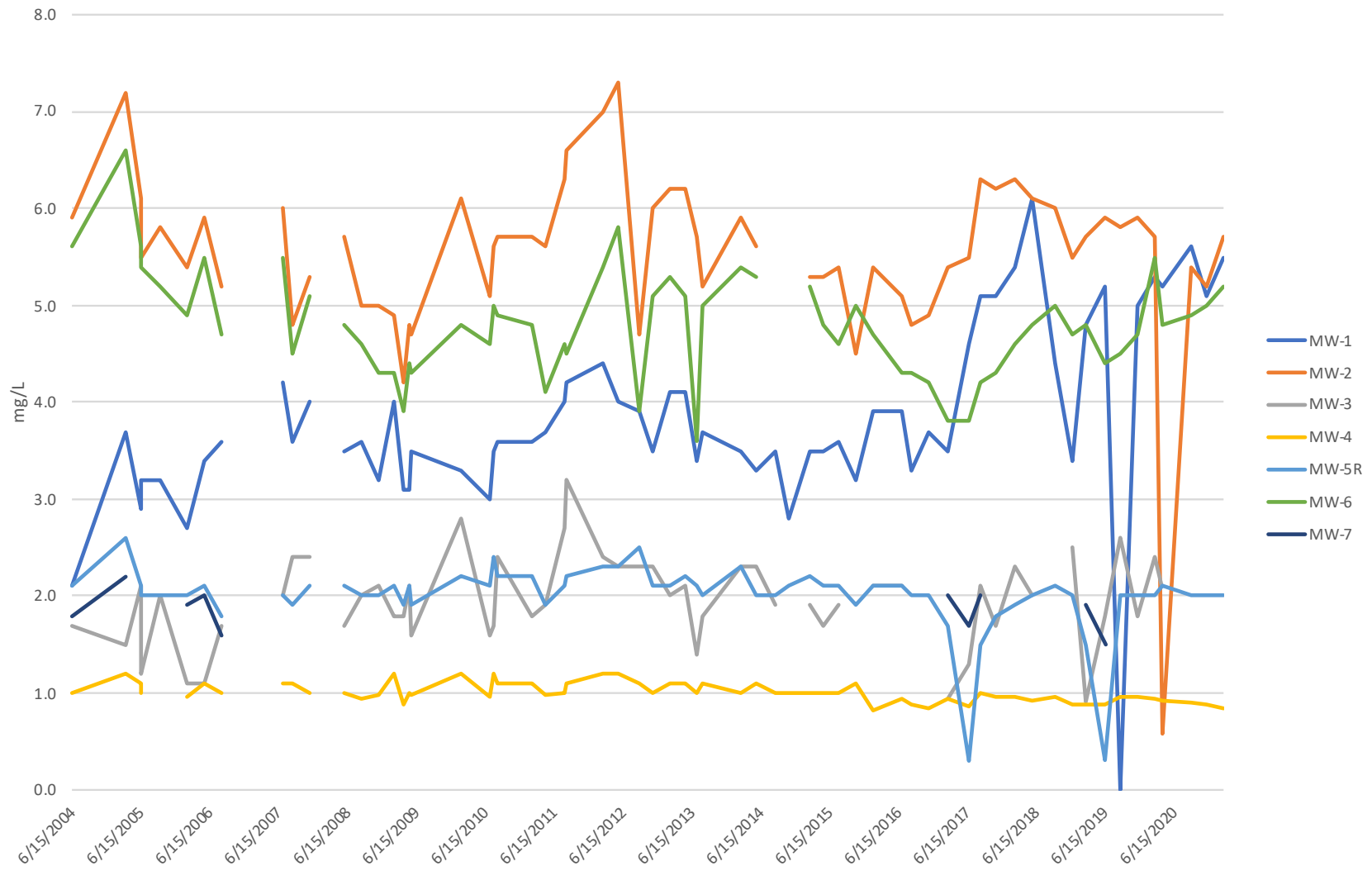


Chart 7
Nitrate, as N Trends 2004-21

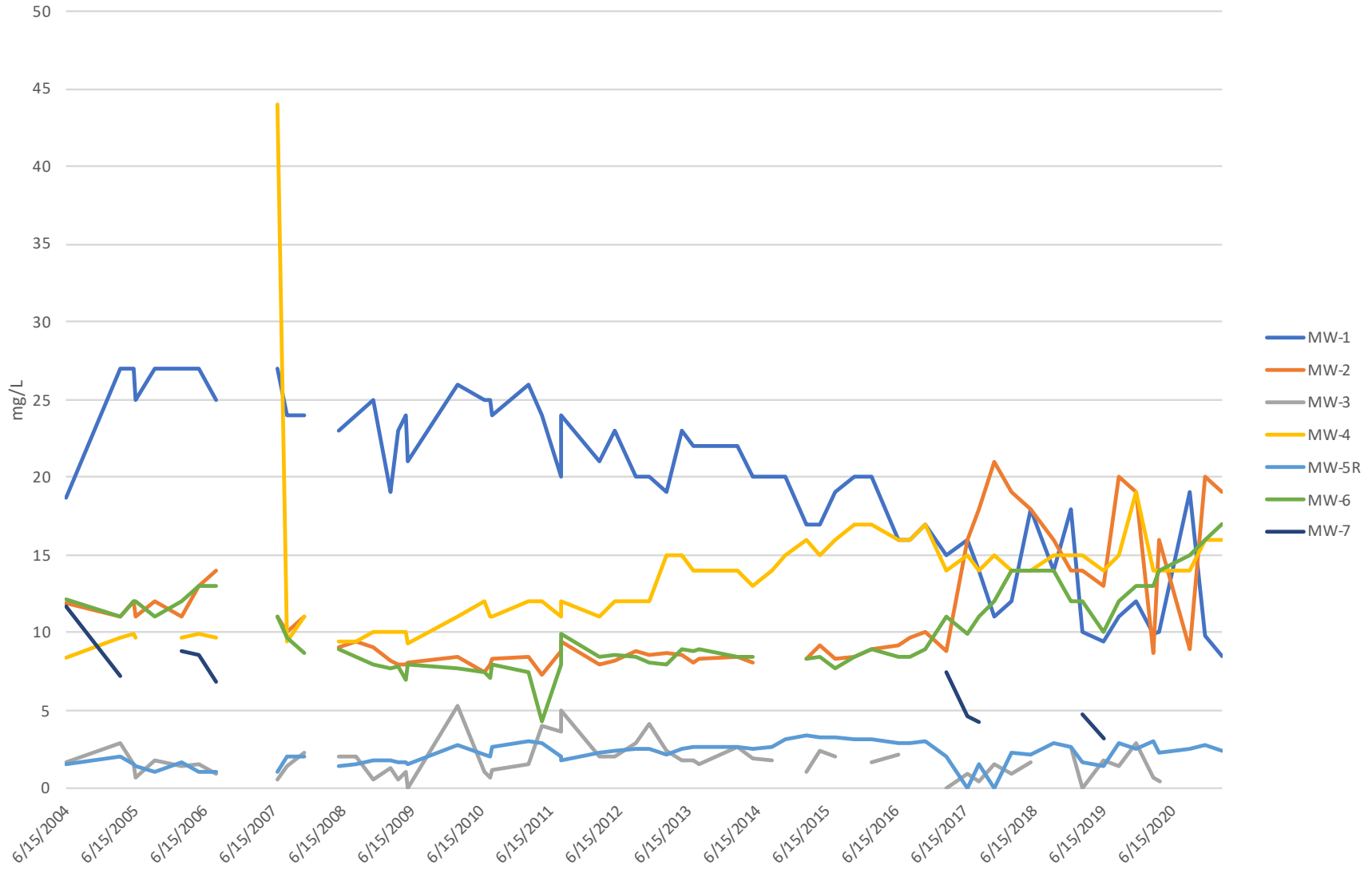
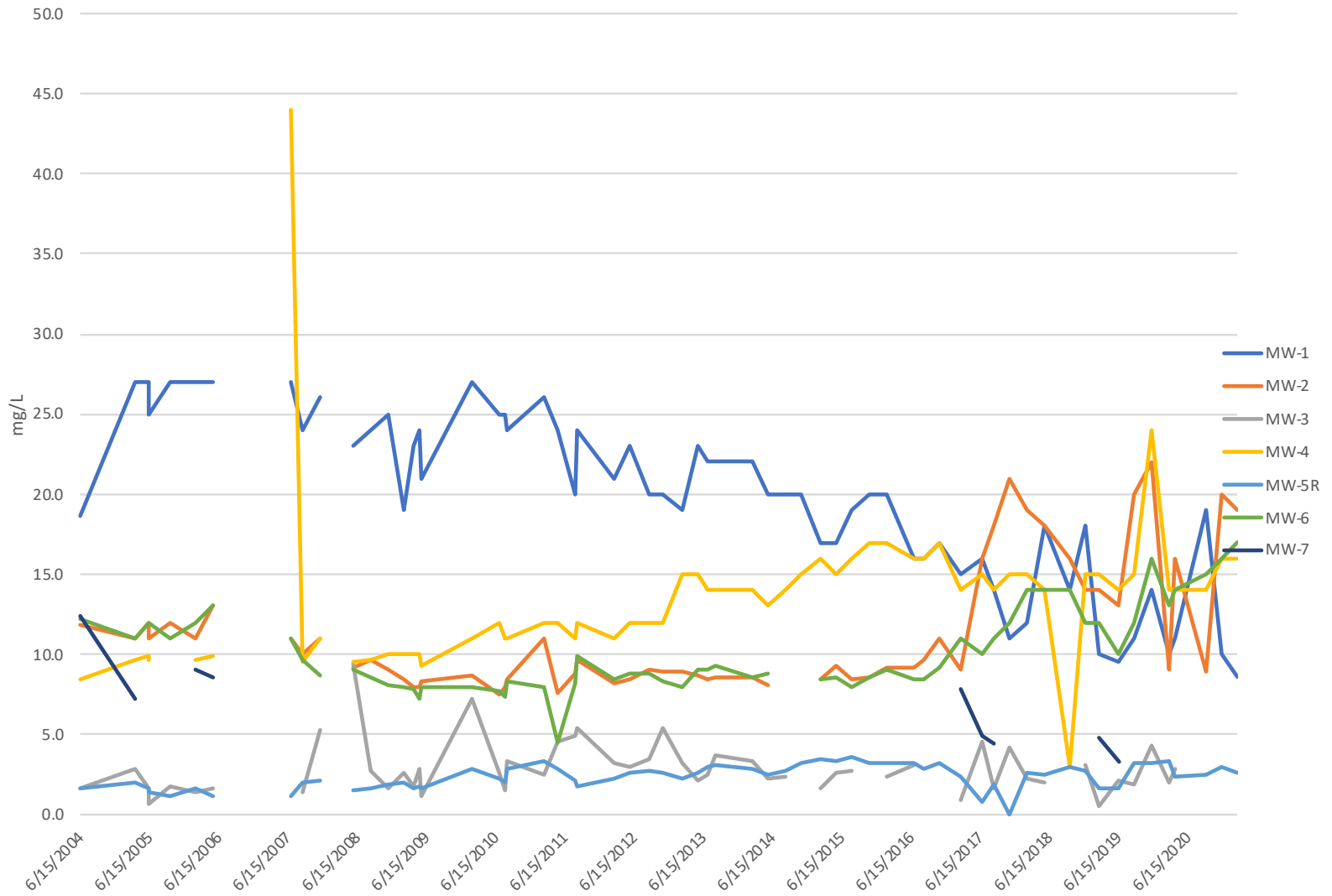


Chart 8
Total Nitrogen Trends 2004-21



APPENDIX A
FIELD DATA FORMS

GROUNDWATER SAMPLING LOG

Well Number: MW-1
 Date: 3/3/21

Samplers Name: D. Busch
 Site: Wild Wings
 Project Number: 1st QTR 2021

Total well depth (ft): 41.40
 Well Diameter (in): 2'
 Borehole Diameter (in): —

Gauging Date: 3/3/21
 Bailer ID: Disposible
 Sample Date: 3/4/21

Static water level (ft): 34.33
 Previous static water level (ft): 33.81
 Standing water column (ft): 7.07

Development method: —
 Purging method: Pump
 Sampling method: Bailer

* All measurements taken from: Top of casing, Protective casing, Ground level

| TIME | DEPTH (ft) | SP. CL. (ft) | pH | TEMP (°F) | COMMENTS | WATER LEVEL (ft) |
|--------------------|------------|--------------|------|-----------|-----------------------------|------------------|
| 1330 | 1 | 1646 | 7.36 | 20.9 | Clear, no odor | |
| 1332 | 2 | 1658 | 7.35 | 20.7 | Clear, no odor | |
| 1334 | 3 | 1652 | 7.34 | 20.6 | Clear, no odor | |
| 1336 | 4 | 1650 | 7.36 | 20.5 | Clear, no odor | |
| | | | | | | |
| | | | | | | |
| 3/4/21 1300 Hrs | 1 | 1650 | 7.30 | 20.1 | Slightly Turbid | 35.59 |
| | | | | | | |
| | | | | | 1.154 Gal/FT x 3 = 3.46 Gal | |
| | | | | | TOTAL PURGE | |
| | | | | | | |
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Volume per Foot for 2" Well = 0.1632 gal/foot

Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

GROUNDWATER SAMPLING LOG

Well Number: MW-2

Samplers Name: D. Busch

Total well depth (ft): 46.71

* Date: 3/3/21

Site: WILD WINGS

Well Diameter (in): 2

Project Number: _____

Borehole Diameter (in): _____

Gauging Date: 3/3/21

Static water level (ft): 36.71'

Development method: _____

Bailer ID: DISPOSABLE

Previous static water level (ft): 36.24

Purging method: Pump

Sample Date: 3/4/21

Standing water column (ft): 10.0

Sampling method: Bailer

* All measurements taken from: Top of casing Protective casing Ground level

| TIME | AMOUNT PURGED (GAL) | DEPTH (FEET) | PH | TEMP (°F) | COMMENTS | WATER LEVEL (FEET) |
|--------|------------------------|-----------------|------|--------------|------------------------------------|--------------------------|
| 1300 | 2 | 1649 | 7.30 | 20.6 | CLEAR, NO ODOR | |
| 1305 | 4 | 1650 | 7.33 | 20.1 | CLEAR, NO ODOR | |
| 1310 | 6 | 1655 | 7.31 | 19.7 | CLEAR, NO ODOR | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| 3/4/21 | | | | | | |
| 1300 | 1 | 1660 | 7.29 | 19.1 | SLIGHTLY TURBID | 37.72 |
| | | | | | 10.0 X .1632 = 1.63 X 3 = 4.89 Gal | |
| | | | | | TOTAL PURGE | |
| | | | | | | |
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Volume per Foot for 2" Well = 0.1632 gal/foot

Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

GROUNDWATER SAMPLING LOG

Well Number: MW-3
 Date: 3/1/21

Samplers Name: D. Bush
 Site: Wild Wings
 Project Number: 1st QTR 2021

Total well depth (ft): 36.80
 Well Diameter (in): 2'
 Borehole Diameter (in): —

Gauging Date: 3/1/21
 Bailer ID: —
 Sample Date: —

Static water level (ft): 26.00
 Previous static water level (ft): 27.58 Below sensor
 Standing water column (ft): 34.8

Development method: —
 Purging method: BAIL
 Sampling method: —

* All measurements taken from: Top of casing Protective casing Ground level

| TIME | AMOUNT PURGED (gal) | START DEPTH (ft) | END DEPTH (ft) | TIME (min) | COMMENTS | WATER LEVEL (ft) |
|--------|---------------------|------------------|----------------|------------|---------------------------------------|------------------|
| 1000 | 1 | 1790 | 7.49 | 19.4 | CHODY, HT. BROCKN | |
| 1010 | 2 | 1773 | 7.55 | 19.4 | CHODY, BALKED OUT. | |
| 3/2/21 | — | — | — | — | UNABLE TO SAMPLE | Below sensor |
| | | | | | .75 GAL/PT X 3 = 2.35 GAL TOTAL PURGE | |

Volume per Foot for 2" Well = 0.1632 gal/foot

Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

GROUNDWATER SAMPLING LOG

Well Number: MW-4
 Date: 3/1/21

Samplers Name: D. Busch
 Site: Wild Wings
 Project Number: 15TQTR 2021

Total well depth (ft): 70.30
 Well Diameter (in): 2
 Borehole Diameter (in): _____

Gauging Date: 3/1/21
 Bailer ID: DISPOSABLE
 Sample Date: 3/2/21

Static water level (ft): 52.58
 Previous static water level (ft): 52.94
 Standing water column (ft): 17.72

Development method: _____
 Purging method: Pump
 Sampling method: Bailer

* All measurements taken from: Top of casing, Protective casing, Ground level

| TIME | AMOUNT PUMPED (gal) | DEPTH (ft) | pH | TEMP (°F) | COMMENTS | WATER LEVEL (ft) |
|--------|------------------------|---------------|------|--------------|---|------------------------|
| 1230 | 3 | 1152 | 7.89 | 20.2 | LT. Brown, Turbid, NO O ₂ ON, cloudy | |
| 1240 | 6 | 1161 | 7.83 | 20.0 | TURBID, NO O ₂ ON | |
| 1250 | 9 | 1169 | 7.82 | 19.5 | CLEAR, NO O ₂ ON | |
| | | | | | | |
| 3/2/21 | | | | | | |
| 1200 | 1 | 1160 | 7.84 | 19.7 | SLIGHTLY TURBID | 55.93 |
| | | | | | | |
| | | | | | 2.89 GAL/VOL X 3 = 8.68 GAL TOTAL PURGE | |
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Volume per Foot for 2" Well = 0.1632 gal/foot

Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

GROUNDWATER SAMPLING LOG

Well Number: MW-5R
 Date: 3/1/21

Samplers Name: D. Busch
 Site: Wild Wings
 Project Number: _____

Total well depth (ft): 73.20
 Well Diameter (in): 2
 Borehole Diameter (in): _____

Gauging Date: 3/1/21
 Bailer ID: DISPOSABLE
 Sample Date: 3/2/21

Static water level (ft): 41.33
 Previous static water level (ft): 41.04
 Standing water column (ft): 31.87

Development method: _____
 Purging method: PUMP
 Sampling method: BAILER

* All measurements taken from: Top of casing Protective casing Ground level

| TIME | DEPTH (feet) | SL (feet) | PH | TEMP (F) | COMMENTS | WATER LEVEL (ft) |
|--------|--------------|-----------|------|----------|------------------------------|------------------|
| 1130 | 2 | 760.9 | 8.05 | 19.7 | CLEAR, NO ODOR | — |
| 1136 | 5 | 766.1 | 8.05 | 19.3 | SLIGHTLY TURBID, NO ODOR | — |
| 1140 | 7 | 751.1 | 8.04 | 19.4 | CLEAR, NO ODOR | — |
| 1146 | 10 | 752.4 | 8.06 | 19.3 | CLEAR, NO ODOR, NO COHON | — |
| 1152 | 13 | 751.3 | 8.03 | 19.4 | CLEAR, NO ODOR | — |
| 1158 | 16 | 750.7 | 8.01 | 19.3 | CLEAR, NO ODOR | — |
| 3/2/21 | | | | | | |
| 1230 | 1 | 760.4 | 8.02 | 19.2 | SLIGHTLY TURBID NO ODOR | 774.81 |
| | | | | | 31.87 x .1632 = 5.2 GAL/FOOT | |
| | | | | | x 3 = 15.6 GAL TOTAL PURGE | |

Volume per Foot for 2" Well = 0.1632 gal/foot

Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

GROUNDWATER SAMPLING LOG

Well Number: MW-6
 Date: 3/1/21

Samplers Name: D. Busch
 Site: Wind Wings
 Project Number: 1st QTR 2021

Total well depth (ft): 48.80
 Well Diameter (in): 2
 Borehole Diameter (in): —

Gauging Date: 3/1/21
 Bailer ID: D13P
 Sample Date: 3/2/21

Static water level (ft): 41.21
 Previous static water level (ft): 40.98
 Standing water column (ft): 7.59

Development method: —
 Purging method: pump
 Sampling method: Bailer

* All measurements taken from: Top of casing Protective casing Ground level

| TIME | DEPTH (feet) | PC (feet) | pH | TEMP (°F) | COMMENTS | WATER LEVEL (ft) |
|--------|--------------|-----------|------|-----------|-------------------------------------|------------------|
| 1055 | 1 | 1534 | 7.20 | 19.4 | SLIGHTLY TURBID, NO ODR | |
| 1057 | 2 | 1559 | 7.15 | 19.5 | CLEARING, NO ODR | |
| 1059 | 3 | 1528 | 7.12 | 19.5 | CLEAR, NO ODR | |
| | | | | | pumped Dry | |
| 3/2/21 | | | | | | |
| 1215 | 1 | 1530 | 7.21 | 19.6 | TURBID, CHLOUDY | 42.77 |
| | | | | | | |
| | | | | | 1.23 GAL/VOL X 3 = 3.71 Total purge | |
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Volume per Foot for 2" Well = 0.1632 gal/foot

Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

GROUNDWATER SAMPLING LOG

Well Number: MW-7
Date: 3/1/21

Samplers Name: D. Busch
Site: Wild Wings
Project Number: 1ST QTR 2021

Total well depth (ft): 38.68
Well Diameter (in): 2
Borehole Diameter (in): —

Gauging Date: 3/1/21
Bailer ID: —
Sample Date: —

Static water level (ft): 38.60
Previous static water level (ft): Below Season
Standing water column (ft): 0.08

Development method: —
Purging method: —
Sampling method: —

* All measurements taken from: Top of casing Protective casing Ground level

| TIME | AMOUNT PUMPED (gal) | SR (ppm) | pH | TEMP (°C) | COMMENTS | WATER LEVEL (ft) |
|----------------|---------------------|----------|----|-----------|--|------------------|
| 1040 | — | — | — | — | NOT ENOUGH VOLUME TO PUMP/PURGE OR BAIL TO EVEN GET READINGS | |
| 3/2/21 1100 | 0 | — | — | — | NOT SAMPLED | Below Season |
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Volume per Foot for 2" Well = 0.1632 gal/foot
Casing Volume = Standing Water Column * 0.1632 gal/foot (multiply by 3 to get purge volume)

APPENDIX B
LABORATORY ANALYTICAL RESULTS
&
CHAIN OF CUSTODY



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0314 COC #: 206281 |
|--|--|--|

Conventional Chemistry Parameters by APHA/EPA Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|-------------|-----------------|----------|----------|---------|----------|----------|-------------------|-------|
| MW-1 (21C0314-01) Water Sampled: 03/04/21 13:30 Received: 03/04/21 15:18 | | | | | | | | | |
| Ammonia as N | ND | 0.10 | mg/L | 1 | 2101885 | 03/05/21 | 03/05/21 | SM4500-NH3F-1997 | |
| Chloride | 110 | 5.0 | " | 10 | 2101845 | 03/05/21 | 03/05/21 | EPA 300.0 | |
| Nitrate as N | 8.5 | 0.40 | " | 1 | " | " | 03/05/21 | " | |
| Nitrite as N | ND | 0.40 | " | " | " | " | " | " | |
| pH | 7.35 | 0.01 | pH Units | " | 2101859 | 03/05/21 | 03/05/21 | SM4500-H B | HT-F |
| Total Dissolved Solids | 1100 | 10 | mg/L | " | 2101886 | 03/05/21 | 03/08/21 | SM2540C | |
| Total Kjeldahl Nitrogen | ND | 0.20 | " | " | 2101962 | 03/09/21 | 03/09/21 | SM4500-NH3F-1997 | |
| Total Nitrogen | 8.6 | 0.40 | " | " | 2101963 | 03/09/21 | 03/09/21 | SM4500-NH3F/300.0 | |
| MW-2 (21C0314-02) Water Sampled: 03/04/21 13:00 Received: 03/04/21 15:18 | | | | | | | | | |
| Ammonia as N | ND | 0.10 | mg/L | 1 | 2101885 | 03/05/21 | 03/05/21 | SM4500-NH3F-1997 | |
| Chloride | 130 | 5.0 | " | 10 | 2101845 | 03/05/21 | 03/05/21 | EPA 300.0 | |
| Nitrate as N | 19 | 4.0 | " | " | " | " | " | " | |
| Nitrite as N | ND | 0.40 | " | 1 | " | " | " | " | |
| pH | 7.25 | 0.01 | pH Units | " | 2101859 | 03/05/21 | 03/05/21 | SM4500-H B | HT-F |
| Total Dissolved Solids | 1200 | 10 | mg/L | " | 2101886 | 03/05/21 | 03/08/21 | SM2540C | |
| Total Kjeldahl Nitrogen | ND | 0.20 | " | " | 2101962 | 03/09/21 | 03/09/21 | SM4500-NH3F-1997 | |
| Total Nitrogen | 19 | 0.40 | " | " | 2101963 | 03/09/21 | 03/09/21 | SM4500-NH3F/300.0 | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0314 COC #: 206281 |
|--|--|--|

Metals (Dissolved) by EPA 200 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|---------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-1 (21C0314-01) Water Sampled: 03/04/21 13:30 Received: 03/04/21 15:18 | | | | | | | | | |
| Arsenic | ND | 2.0 | µg/L | 1 | 2101968 | 03/09/21 | 03/09/21 | EPA 200.8 | |
| Boron | 5500 | 50 | " | " | 2101927 | 03/08/21 | 03/08/21 | EPA 200.7 | |
| Iron | ND | 100 | " | " | " | " | " | " | |
| Manganese | ND | 20 | " | " | " | " | " | " | |
| Sodium | 120000 | 2000 | " | 2 | " | " | 03/08/21 | " | |
| MW-2 (21C0314-02) Water Sampled: 03/04/21 13:00 Received: 03/04/21 15:18 | | | | | | | | | |
| Arsenic | ND | 2.0 | µg/L | 1 | 2101968 | 03/09/21 | 03/09/21 | EPA 200.8 | |
| Boron | 5700 | 50 | " | " | 2101927 | 03/08/21 | 03/08/21 | EPA 200.7 | |
| Iron | ND | 100 | " | " | " | " | " | " | |
| Manganese | ND | 20 | " | " | " | " | " | " | |
| Sodium | 140000 | 2000 | " | 2 | " | " | 03/08/21 | " | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0314 COC #: 206281 |
|--|--|--|

Microbiological Parameters by APHA Standard Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|------------|----------|---------|----------|----------|---------|-------|
| MW-1 (21C0314-01) Water Sampled: 03/04/21 13:30 Received: 03/04/21 15:18 | | | | | | | | | |
| Total Coliforms | <1.8 | 1.8 | MPN/100 mL | 1 | 2101863 | 03/04/21 | 03/06/21 | SM 9221 | |
| MW-2 (21C0314-02) Water Sampled: 03/04/21 13:00 Received: 03/04/21 15:18 | | | | | | | | | |
| Total Coliforms | <1.8 | 1.8 | MPN/100 mL | 1 | 2101863 | 03/04/21 | 03/06/21 | SM 9221 | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0314 COC #: 206281 |
|--|--|--|

Trihalomethanes by EPA Method 524.2

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-1 (21C0314-01) Water Sampled: 03/04/21 13:30 Received: 03/04/21 15:18 | | | | | | | | | |
| Bromodichloromethane | 1.2 | 0.50 | µg/L | 1 | 2101988 | 03/09/21 | 03/09/21 | EPA 524.2 | |
| Bromoform | 1.7 | 0.50 | " | " | " | " | " | " | |
| Chloroform | 2.2 | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | 1.4 | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | 6.4 | 0.50 | " | " | " | " | " | " | |

| | | | | | | | | |
|---|-------|--------|---|---|---|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 98 % | 70-130 | " | " | " | " | " | " |
| <i>Surrogate: Toluene-d8</i> | 100 % | 70-130 | " | " | " | " | " | " |

| | | | | | | | | | |
|---|-----|------|------|---|---------|----------|----------|-----------|--|
| MW-2 (21C0314-02) Water Sampled: 03/04/21 13:00 Received: 03/04/21 15:18 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 2101988 | 03/09/21 | 03/09/21 | EPA 524.2 | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | 1.4 | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | 1.4 | 0.50 | " | " | " | " | " | " | |

| | | | | | | | | |
|---|------|--------|---|---|---|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 98 % | 70-130 | " | " | " | " | " | " |
| <i>Surrogate: Toluene-d8</i> | 99 % | 70-130 | " | " | " | " | " | " |

| | | | | | | | | | |
|---|----|------|------|---|---------|----------|----------|-----------|--|
| Trip Blank (21C0314-03) Water Sampled: 03/04/21 09:00 Received: 03/04/21 15:18 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 2101988 | 03/09/21 | 03/09/21 | EPA 524.2 | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | ND | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | ND | 0.50 | " | " | " | " | " | " | |

| | | | | | | | | |
|---|-------|--------|---|---|---|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 95 % | 70-130 | " | " | " | " | " | " |
| <i>Surrogate: Toluene-d8</i> | 100 % | 70-130 | " | " | " | " | " | " |



CALIFORNIA LABORATORY SERVICES

Committed. Responsive. Flexible.

March 09, 2021

CLS Work Order #: 21C0124

COC #: 210236

Dan Demoss
California Rural Water Association
1234 N. Market Blvd.
Sacramento, CA 95834

Project Name: Wild Wings

Enclosed are the results of analyses for samples received by the laboratory on 03/02/21 15:17. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

James Liang, Ph.D.
Laboratory Director

CA SWRCB ELAP Accreditation/Registration number 1233



CALIFORNIA
LABORATORY
SERVICES
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CHAIN OF CUSTODY

CLS ID No.;

210024

LOG No 210236

P. 1 OF 2

HIGHLIGHTED AREAS MUST BE FILLED OUT PRIOR TO ACCEPTANCE

| REPORT TO: | | CLIENT JOB NUMBER | | ANALYSIS REQUESTED | | | | GEO TRACKER: EDT REPORT GLOBAL ID: <input type="checkbox"/> YES <input type="checkbox"/> NO | | | | |
|------------------------|------|--------------------------------|--------|---------------------------------|-------------------------|--------------------------------|---------|--|--|-------|---|-------|
| NAME AND ADDRESS | | DESTINATION LABORATORY | | PRESERVATIVES | SAP D.P. ATTACHED | ANALYZE METHODS | ANIONIC | THANIS | CDPH WRITE ON EDT TRANSMISSION? <input type="checkbox"/> YES <input type="checkbox"/> NO | | | |
| PROJECT MANAGER | | OTHER | | | | | | | STATE SYSTEM NUMBER | | IF "YES" PLEASE ENTER THE SOURCE NUMBER(S). | |
| PROJECT NAME | | COMPOSITE: | | | | | | | TURN AROUND TIME | | SPECIAL INSTRUCTIONS | |
| SAMPLED BY | | OR | | | | | | | 1 DAY | 2 DAY | 3 DAY | 5 DAY |
| DATE | TIME | SAMPLE IDENTIFICATION | MATRIX | CONTAINER NO. | TYPE | | | | | | | |
| 3/2/21 | 1215 | MW-6 | GW | 7 | Poly | X | | | | X | | |
| 3/2/21 | 1230 | MW-5R | GW | 7 | Poly | X | | | | X | | |
| 3/2/21 | 1200 | MW-4 | GW | 7 | Poly | X | | | | X | | |
| 3/2/21 | 0900 | Trip Blank | W | 2 | VOL | | | | | X | | |
| | | | | | | | | | INVOICE TO: | | | |
| | | | | | | | | | PO # | | | |
| | | | | | | | | | QUOTE # | | | |
| Email/Address | | PRESERVATIVES: | | (1) HCL (2) HNO ₃ | | (3) = COLD (4) = NaOH | | (5) = H ₂ SO ₄ (6) = Na ₂ S ₂ O ₈ | | (7) = | | |
| RELINQUISHED BY (SIGN) | | PRINT NAME / COMPANY | | DATE / TIME | | RECEIVED BY (SIGN) | | PRINT NAME / COMPANY | | | | |
| <i>[Signature]</i> | | DATTON BUSCH | | 3/2/21 1517 | | <i>[Signature]</i> | | | | | | |
| REC'D AT LAB BY: | | DATE / TIME | | CONDITIONS / COMMENTS: | | | | | | | | |
| <i>[Signature]</i> | | 3/2/21 1517 | | 75 | | | | | | | | |
| SHIPPED BY: | | <input type="checkbox"/> FED X | | <input type="checkbox"/> UPS | | <input type="checkbox"/> OTHER | | AIR BILL # | | | | |

Gold Project Mgr./Field Sampler/Terms and conditions
Pink: Origin/Terms and Conditions
Yellow: Lab file copy/Terms and Conditions
White: Lab/Terms and conditions

List of Analytes and Methods

| Analyte | Method | MRL |
|-------------------------|-------------------------|----------------|
| Ammonia, as N | SM4500-NH3F-1997 | 0.10 mg/L |
| Nitrate, as N | EPA Method 300.0 | 0.40 mg/L |
| Nitrite, as N | EPA Method 300.0 | 0.40 mg/L |
| Total Kjeldahl Nitrogen | SM4500-NH3F-1997 | 0.20 mg/L |
| Total Nitrogen | EPA Methods 351.3/300.0 | 0.40 mg/L |
| Chloride | EPA Method 300.0 | 2.5 mg/L |
| pH | SM4500-H B | 0.01 pH Units |
| Total Dissolved Solids | SM2540C | 10 mg/L |
| Boron | EPA Method 200.7 | 50 µg/L |
| Total Iron | EPA Method 200.7 | 100 µg/L |
| Total Manganese | EPA Method 200.7 | 20 µg/L |
| Sodium | EPA Method 200.7 | 1000 µg/L |
| Total Coliform | SM 9221 | 1.8 MPN/100 mL |
| Trihalomethanes* | EPA Method 524.2 | 0.5 µg/L |

Dissolved
has to
FILTER

* ARSENIC

*Trihalomethanes to include Bromodichloromethane, Bromoform, Chloroform, Dibromochloromethane and Total Trihalomethanes (THM).

Attachments:

1. Wild Wings site map showing groundwater monitoring wells
2. Example laboratory chain of custody



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Conventional Chemistry Parameters by APHA/EPA Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|-------------|-----------------|----------|----------|---------|----------|----------|-------------------|-------|
| MW-6 (21C0124-01) Water Sampled: 03/02/21 12:15 Received: 03/02/21 15:17 | | | | | | | | | |
| Ammonia as N | ND | 0.10 | mg/L | 1 | 2101832 | 03/04/21 | 03/04/21 | SM4500-NH3F-1997 | |
| Chloride | 150 | 5.0 | " | 10 | 2101767 | 03/03/21 | 03/03/21 | EPA 300.0 | |
| Nitrate as N | 17 | 4.0 | " | " | " | " | " | " | |
| Nitrite as N | ND | 0.40 | " | 1 | " | " | " | " | |
| pH | 7.02 | 0.01 | pH Units | " | 2101771 | 03/03/21 | 03/03/21 | SM4500-H B | HT-F |
| Total Dissolved Solids | 1100 | 10 | mg/L | " | 2101805 | 03/03/21 | 03/05/21 | SM2540C | |
| Total Kjeldahl Nitrogen | ND | 0.20 | " | " | 2101779 | 03/03/21 | 03/03/21 | SM4500-NH3F-1997 | |
| Total Nitrogen | 17 | 0.40 | " | " | 2101884 | 03/05/21 | 03/05/21 | SM4500-NH3F/300.0 | |
| MW-5R (21C0124-02) Water Sampled: 03/02/21 12:30 Received: 03/02/21 15:17 | | | | | | | | | |
| Ammonia as N | ND | 0.10 | mg/L | 1 | 2101832 | 03/04/21 | 03/04/21 | SM4500-NH3F-1997 | |
| Chloride | 140 | 5.0 | " | 10 | 2101767 | 03/03/21 | 03/03/21 | EPA 300.0 | |
| Nitrate as N | 2.4 | 0.40 | " | 1 | " | " | " | " | |
| Nitrite as N | ND | 0.40 | " | " | " | " | " | " | |
| pH | 8.18 | 0.01 | pH Units | " | 2101771 | 03/03/21 | 03/03/21 | SM4500-H B | HT-F |
| Total Dissolved Solids | 630 | 10 | mg/L | " | 2101805 | 03/03/21 | 03/05/21 | SM2540C | |
| Total Kjeldahl Nitrogen | 0.21 | 0.20 | " | " | 2101779 | 03/03/21 | 03/03/21 | SM4500-NH3F-1997 | |
| Total Nitrogen | 2.6 | 0.40 | " | " | 2101884 | 03/05/21 | 03/05/21 | SM4500-NH3F/300.0 | |
| MW-4 (21C0124-03) Water Sampled: 03/02/21 12:00 Received: 03/02/21 15:17 | | | | | | | | | |
| Ammonia as N | ND | 0.10 | mg/L | 1 | 2101832 | 03/04/21 | 03/04/21 | SM4500-NH3F-1997 | |
| Chloride | 260 | 5.0 | " | 10 | 2101767 | 03/03/21 | 03/03/21 | EPA 300.0 | |
| Nitrate as N | 16 | 4.0 | " | " | " | " | " | " | |
| Nitrite as N | ND | 0.40 | " | 1 | " | " | " | " | |
| pH | 7.80 | 0.01 | pH Units | " | 2101771 | 03/03/21 | 03/03/21 | SM4500-H B | HT-F |
| Total Dissolved Solids | 690 | 10 | mg/L | " | 2101805 | 03/03/21 | 03/05/21 | SM2540C | |
| Total Kjeldahl Nitrogen | ND | 0.20 | " | " | 2101779 | 03/03/21 | 03/03/21 | SM4500-NH3F-1997 | |
| Total Nitrogen | 16 | 0.40 | " | " | 2101884 | 03/05/21 | 03/05/21 | SM4500-NH3F/300.0 | |



| | | |
|--|--|---|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|---|

Conventional Chemistry Parameters by APHA/EPA Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|
|---------|--------|--------------------|-------|----------|-------|----------|----------|--------|-------|



| | | |
|--|--|---|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|---|

Metals by EPA 200 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-6 (21C0124-01) Water Sampled: 03/02/21 12:15 Received: 03/02/21 15:17 | | | | | | | | | |
| Arsenic | ND | 2.0 | µg/L | 1 | 2101784 | 03/03/21 | 03/03/21 | EPA 200.8 | |
| MW-5R (21C0124-02) Water Sampled: 03/02/21 12:30 Received: 03/02/21 15:17 | | | | | | | | | |
| Arsenic | ND | 2.0 | µg/L | 1 | 2101784 | 03/03/21 | 03/03/21 | EPA 200.8 | |
| MW-4 (21C0124-03) Water Sampled: 03/02/21 12:00 Received: 03/02/21 15:17 | | | | | | | | | |
| Arsenic | ND | 2.0 | µg/L | 1 | 2101784 | 03/03/21 | 03/03/21 | EPA 200.8 | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Metals (Dissolved) by EPA 200 Series Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-6 (21C0124-01) Water Sampled: 03/02/21 12:15 Received: 03/02/21 15:17 | | | | | | | | | |
| Boron | 5200 | 50 | µg/L | 1 | 2101927 | 03/08/21 | 03/08/21 | EPA 200.7 | |
| Iron | ND | 100 | " | " | " | " | " | " | |
| Manganese | ND | 20 | " | " | " | " | " | " | |
| Sodium | 140000 | 2000 | " | 2 | " | " | 03/08/21 | " | |
| MW-5R (21C0124-02) Water Sampled: 03/02/21 12:30 Received: 03/02/21 15:17 | | | | | | | | | |
| Boron | 2000 | 50 | µg/L | 1 | 2101927 | 03/08/21 | 03/08/21 | EPA 200.7 | |
| Iron | ND | 100 | " | " | " | " | " | " | |
| Manganese | ND | 20 | " | " | " | " | " | " | |
| Sodium | 130000 | 2000 | " | 2 | " | " | 03/08/21 | " | |
| MW-4 (21C0124-03) Water Sampled: 03/02/21 12:00 Received: 03/02/21 15:17 | | | | | | | | | |
| Boron | 850 | 50 | µg/L | 1 | 2101927 | 03/08/21 | 03/08/21 | EPA 200.7 | |
| Iron | ND | 100 | " | " | " | " | " | " | |
| Manganese | ND | 20 | " | " | " | " | " | " | |
| Sodium | 55000 | 1000 | " | " | " | " | " | " | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Microbiological Parameters by APHA Standard Methods

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|--|--------|-----------------|------------|----------|---------|----------|----------|---------|-------|
| MW-6 (21C0124-01) Water Sampled: 03/02/21 12:15 Received: 03/02/21 15:17 | | | | | | | | | |
| Total Coliforms | <1.8 | 1.8 | MPN/100 mL | 1 | 2101773 | 03/02/21 | 03/04/21 | SM 9221 | |
| MW-5R (21C0124-02) Water Sampled: 03/02/21 12:30 Received: 03/02/21 15:17 | | | | | | | | | |
| Total Coliforms | <1.8 | 1.8 | MPN/100 mL | 1 | 2101773 | 03/02/21 | 03/04/21 | SM 9221 | |
| MW-4 (21C0124-03) Water Sampled: 03/02/21 12:00 Received: 03/02/21 15:17 | | | | | | | | | |
| Total Coliforms | <1.8 | 1.8 | MPN/100 mL | 1 | 2101773 | 03/02/21 | 03/04/21 | SM 9221 | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Trihalomethanes by EPA Method 524.2

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|------------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| MW-6 (21C0124-01) Water Sampled: 03/02/21 12:15 Received: 03/02/21 15:17 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 2101811 | 03/03/21 | 03/03/21 | EPA 524.2 | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | 3.3 | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | 3.8 | 0.50 | " | " | " | " | " | " | |

| | | | | | | | | |
|---|-------|--------|---|---|---|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 112 % | 70-130 | " | " | " | " | " | " |
| <i>Surrogate: Toluene-d8</i> | 105 % | 70-130 | " | " | " | " | " | " |

MW-5R (21C0124-02) Water Sampled: 03/02/21 12:30 Received: 03/02/21 15:17

| | | | | | | | | | |
|------------------------------------|-----------|------|------|---|---------|----------|----------|-----------|--|
| Bromodichloromethane | 12 | 0.50 | µg/L | 1 | 2101811 | 03/03/21 | 03/03/21 | EPA 524.2 | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | 39 | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | 7.6 | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | 58 | 0.50 | " | " | " | " | " | " | |

| | | | | | | | | |
|---|-------|--------|---|---|---|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 108 % | 70-130 | " | " | " | " | " | " |
| <i>Surrogate: Toluene-d8</i> | 104 % | 70-130 | " | " | " | " | " | " |

MW-4 (21C0124-03) Water Sampled: 03/02/21 12:00 Received: 03/02/21 15:17

| | | | | | | | | | |
|------------------------------------|------------|------|------|---|---------|----------|----------|-----------|--|
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 2101811 | 03/03/21 | 03/03/21 | EPA 524.2 | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | 3.6 | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | 3.6 | 0.50 | " | " | " | " | " | " | |

| | | | | | | | | |
|---|-------|--------|---|---|---|---|---|---|
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 116 % | 70-130 | " | " | " | " | " | " |
| <i>Surrogate: Toluene-d8</i> | 104 % | 70-130 | " | " | " | " | " | " |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Trihalomethanes by EPA Method 524.2

| Analyte | Result | Reporting Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |
|---|--------|-----------------|-------|----------|---------|----------|----------|-----------|-------|
| Trip Blank (21C0124-04) Water Sampled: 03/02/21 09:00 Received: 03/02/21 15:17 | | | | | | | | | |
| Bromodichloromethane | ND | 0.50 | µg/L | 1 | 2101811 | 03/03/21 | 03/03/21 | EPA 524.2 | |
| Bromoform | ND | 0.50 | " | " | " | " | " | " | |
| Chloroform | ND | 0.50 | " | " | " | " | " | " | |
| Dibromochloromethane | ND | 0.50 | " | " | " | " | " | " | |
| Total Trihalomethanes (THM) | ND | 0.50 | " | " | " | " | " | " | |
| Surrogate: 1,2-Dichloroethane-d4 | | 114 % | | 70-130 | " | " | " | " | |
| Surrogate: Toluene-d8 | | 106 % | | 70-130 | " | " | " | " | |



| | | |
|--|--|--|
| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101767 - General Preparation

Blank (2101767-BLK1) Prepared & Analyzed: 03/03/21

| | | | | | | | | | | |
|--------------|----|------|------|--|--|--|--|--|--|--|
| Chloride | ND | 0.50 | mg/L | | | | | | | |
| Nitrate as N | ND | 0.40 | " | | | | | | | |
| Nitrite as N | ND | 0.40 | " | | | | | | | |

LCS (2101767-BS1) Prepared & Analyzed: 03/03/21

| | | | | | | | | | | |
|--------------|------|------|------|------|--|-----|--------|--|--|--|
| Chloride | 4.90 | 0.50 | mg/L | 5.00 | | 98 | 80-120 | | | |
| Nitrite as N | 1.92 | 0.40 | " | 2.00 | | 96 | 80-120 | | | |
| Nitrate as N | 2.03 | 0.40 | " | 2.00 | | 101 | 80-120 | | | |

LCS Dup (2101767-BSD1) Prepared & Analyzed: 03/03/21

| | | | | | | | | | | |
|--------------|------|------|------|------|--|-----|--------|-----|----|--|
| Chloride | 4.87 | 0.50 | mg/L | 5.00 | | 97 | 80-120 | 0.5 | 20 | |
| Nitrate as N | 2.02 | 0.40 | " | 2.00 | | 101 | 80-120 | 0.3 | 20 | |
| Nitrite as N | 1.93 | 0.40 | " | 2.00 | | 97 | 80-120 | 0.6 | 20 | |

Matrix Spike (2101767-MS1) Source: 21C0108-01 Prepared & Analyzed: 03/03/21

| | | | | | | | | | | |
|--------------|------|------|------|------|-------|----|--------|--|--|--|
| Chloride | 33.5 | 0.50 | mg/L | 5.00 | 28.8 | 94 | 80-120 | | | |
| Nitrite as N | 1.92 | 0.40 | " | 2.00 | ND | 96 | 80-120 | | | |
| Nitrate as N | 2.10 | 0.40 | " | 2.00 | 0.193 | 95 | 80-120 | | | |

Matrix Spike Dup (2101767-MSD1) Source: 21C0108-01 Prepared & Analyzed: 03/03/21

| | | | | | | | | | | |
|--------------|------|------|------|------|-------|----|--------|-----|----|--|
| Chloride | 33.6 | 0.50 | mg/L | 5.00 | 28.8 | 96 | 80-120 | 0.2 | 20 | |
| Nitrite as N | 1.93 | 0.40 | " | 2.00 | ND | 97 | 80-120 | 0.8 | 20 | |
| Nitrate as N | 2.12 | 0.40 | " | 2.00 | 0.193 | 97 | 80-120 | 1 | 20 | |

Batch 2101771 - General Prep

Duplicate (2101771-DUP1) Source: 21C0106-01 Prepared & Analyzed: 03/03/21

| | | | | | | | | | | |
|----|------|------|----------|--|------|--|--|-------|----|--|
| pH | 7.69 | 0.01 | pH Units | | 7.68 | | | 0.130 | 20 | |
|----|------|------|----------|--|------|--|--|-------|----|--|



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| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101779 - General Preparation

| | | | | | | | | | | |
|--|-------|------|------|--|------|-----|--------|---|----|------|
| Blank (2101779-BLK1) | | | | Prepared & Analyzed: 03/03/21 | | | | | | |
| Total Kjeldahl Nitrogen | ND | 0.20 | mg/L | | | | | | | |
| LCS (2101779-BS1) | | | | Prepared & Analyzed: 03/03/21 | | | | | | |
| Total Kjeldahl Nitrogen | 0.531 | 0.20 | mg/L | 0.500 | | 106 | 80-120 | | | |
| LCS Dup (2101779-BSD1) | | | | Prepared & Analyzed: 03/03/21 | | | | | | |
| Total Kjeldahl Nitrogen | 0.541 | 0.20 | mg/L | 0.500 | | 108 | 80-120 | 2 | 20 | |
| Matrix Spike (2101779-MS1) | | | | Source: 21C0059-01 Prepared & Analyzed: 03/03/21 | | | | | | |
| Total Kjeldahl Nitrogen | 9.15 | 2.0 | mg/L | 5.00 | 5.23 | 78 | 75-125 | | | |
| Matrix Spike Dup (2101779-MSD1) | | | | Source: 21C0059-01 Prepared & Analyzed: 03/03/21 | | | | | | |
| Total Kjeldahl Nitrogen | 8.63 | 2.0 | mg/L | 5.00 | 5.23 | 68 | 75-125 | 6 | 25 | QM-7 |

Batch 2101805 - General Preparation

| | | | | | | | | | | |
|---------------------------------|-----|----|------|--|-----|--|--|---|----|--|
| Blank (2101805-BLK1) | | | | Prepared: 03/03/21 Analyzed: 03/05/21 | | | | | | |
| Total Dissolved Solids | ND | 10 | mg/L | | | | | | | |
| Duplicate (2101805-DUP1) | | | | Source: 21C0108-01 Prepared: 03/03/21 Analyzed: 03/05/21 | | | | | | |
| Total Dissolved Solids | 297 | 10 | mg/L | | 289 | | | 3 | 20 | |

Batch 2101832 - General Preparation

| | | | | | | | | | | |
|-----------------------------|----|------|------|-------------------------------|--|--|--|--|--|--|
| Blank (2101832-BLK1) | | | | Prepared & Analyzed: 03/04/21 | | | | | | |
| Ammonia as N | ND | 0.10 | mg/L | | | | | | | |



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| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101832 - General Preparation

| LCS (2101832-BS1) | | Prepared & Analyzed: 03/04/21 | | | | | | | | |
|--|-------|-------------------------------|------|-------------------------------|-------|-----|--------|-----|----|--|
| Ammonia as N | 0.492 | 0.10 | mg/L | 0.500 | | 98 | 80-120 | | | |
| LCS Dup (2101832-BSD1) | | Prepared & Analyzed: 03/04/21 | | | | | | | | |
| Ammonia as N | 0.500 | 0.10 | mg/L | 0.500 | | 100 | 80-120 | 2 | 25 | |
| Matrix Spike (2101832-MS1) | | Source: 21C0121-04 | | Prepared & Analyzed: 03/04/21 | | | | | | |
| Ammonia as N | 0.696 | 0.10 | mg/L | 0.500 | 0.185 | 102 | 75-125 | | | |
| Matrix Spike Dup (2101832-MSD1) | | Source: 21C0121-04 | | Prepared & Analyzed: 03/04/21 | | | | | | |
| Ammonia as N | 0.695 | 0.10 | mg/L | 0.500 | 0.185 | 102 | 75-125 | 0.2 | 25 | |



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| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
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Metals by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101784 - EPA 200 Series

| | | | | | | | | | | |
|-----------------------------------|------|-----|------|--|------|----|--------|--|--|--|
| Blank (2101784-BLK1) | | | | Prepared & Analyzed: 03/03/21 | | | | | | |
| Arsenic | ND | 2.0 | µg/L | | | | | | | |
| LCS (2101784-BS1) | | | | Prepared & Analyzed: 03/03/21 | | | | | | |
| Arsenic | 91.0 | 2.0 | µg/L | 100 | | 91 | 85-115 | | | |
| Matrix Spike (2101784-MS1) | | | | Source: 21C0109-02 Prepared & Analyzed: 03/03/21 | | | | | | |
| Arsenic | 100 | 2.0 | µg/L | 100 | 4.64 | 96 | 70-130 | | | |



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| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
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Metals (Dissolved) by EPA 200 Series Methods - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101927 - EPA 200 Series

Blank (2101927-BLK1)

Prepared & Analyzed: 03/08/21

| | | | | | | | | | | |
|-----------|----|------|------|--|--|--|--|--|--|--|
| Barium | ND | 20 | µg/L | | | | | | | |
| Boron | ND | 50 | " | | | | | | | |
| Iron | ND | 100 | " | | | | | | | |
| Manganese | ND | 20 | " | | | | | | | |
| Sodium | ND | 1000 | " | | | | | | | |

LCS (2101927-BS1)

Prepared & Analyzed: 03/08/21

| | | | | | | | | | | |
|-----------|------|------|------|------|--|-----|--------|--|--|--|
| Barium | 1050 | 20 | µg/L | 1000 | | 105 | 85-115 | | | |
| Boron | 1030 | 50 | " | 1000 | | 103 | 85-115 | | | |
| Iron | 1050 | 100 | " | 1000 | | 105 | 85-115 | | | |
| Manganese | 1050 | 20 | " | 1000 | | 105 | 85-115 | | | |
| Sodium | 5230 | 1000 | " | 5000 | | 105 | 85-115 | | | |

Matrix Spike (2101927-MS1)

Source: 21C0124-01

Prepared & Analyzed: 03/08/21

| | | | | | | | | | | |
|-----------|--------|------|------|------|--------|-----|--------|--|--|------|
| Barium | 1170 | 20 | µg/L | 1000 | 76.9 | 109 | 70-130 | | | |
| Boron | 2950 | 50 | " | 1000 | 5160 | NR | 70-130 | | | QM-7 |
| Iron | 1060 | 100 | " | 1000 | ND | 106 | 70-130 | | | |
| Manganese | 1020 | 20 | " | 1000 | ND | 102 | 70-130 | | | |
| Sodium | 127000 | 1000 | " | 5000 | 143000 | NR | 70-130 | | | QM-7 |

Matrix Spike (2101927-MS2)

Source: 21C0165-01

Prepared & Analyzed: 03/08/21

| | | | | | | | | | | |
|-----------|--------|------|------|------|--------|-----|--------|--|--|------|
| Barium | 1220 | 20 | µg/L | 1000 | 157 | 106 | 70-130 | | | |
| Boron | 2050 | 50 | " | 1000 | 1110 | 93 | 70-130 | | | |
| Iron | 29600 | 100 | " | 1000 | 28800 | 86 | 70-130 | | | |
| Manganese | 2310 | 20 | " | 1000 | 1340 | 97 | 70-130 | | | |
| Sodium | 208000 | 1000 | " | 5000 | 218000 | NR | 70-130 | | | QM-7 |



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| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Trihalomethanes by EPA Method 524.2 - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101811 - EPA 5030 Water MS

| Blank (2101811-BLK1) | | | Prepared & Analyzed: 03/03/21 | | | | | | | |
|---|------|------|-------------------------------|------|--|-----|--------|--|--|--|
| Bromodichloromethane | ND | 0.50 | µg/L | | | | | | | |
| Bromoform | ND | 0.50 | " | | | | | | | |
| Chloroform | ND | 0.50 | " | | | | | | | |
| Dibromochloromethane | ND | 0.50 | " | | | | | | | |
| Total Trihalomethanes (THM) | ND | 0.50 | " | | | | | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 10.8 | | " | 10.0 | | 108 | 70-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 10.5 | | " | 10.0 | | 105 | 70-130 | | | |

| LCS (2101811-BS1) | | | Prepared & Analyzed: 03/03/21 | | | | | | | |
|---|------|------|-------------------------------|------|--|-----|--------|--|--|--|
| Bromodichloromethane | 21.8 | 0.50 | µg/L | 20.0 | | 109 | 70-130 | | | |
| Bromoform | 19.1 | 0.50 | " | 20.0 | | 96 | 70-130 | | | |
| Chloroform | 17.3 | 0.50 | " | 20.0 | | 86 | 70-130 | | | |
| Dibromochloromethane | 18.8 | 0.50 | " | 20.0 | | 94 | 70-130 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 9.86 | | " | 10.0 | | 99 | 70-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 10.3 | | " | 10.0 | | 103 | 70-130 | | | |

| LCS Dup (2101811-BSD1) | | | Prepared & Analyzed: 03/03/21 | | | | | | | |
|---|------|------|-------------------------------|------|--|-----|--------|-----|----|--|
| Bromodichloromethane | 21.8 | 0.50 | µg/L | 20.0 | | 109 | 70-130 | 0.1 | 30 | |
| Bromoform | 20.6 | 0.50 | " | 20.0 | | 103 | 70-130 | 7 | 30 | |
| Chloroform | 17.0 | 0.50 | " | 20.0 | | 85 | 70-130 | 2 | 30 | |
| Dibromochloromethane | 19.1 | 0.50 | " | 20.0 | | 95 | 70-130 | 2 | 30 | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 9.72 | | " | 10.0 | | 97 | 70-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 10.2 | | " | 10.0 | | 102 | 70-130 | | | |

| Matrix Spike (2101811-MS1) | | | Source: 21C0097-01 | | Prepared & Analyzed: 03/03/21 | | | | | |
|---|------|------|--------------------|------|-------------------------------|-----|--------|--|--|--|
| Bromodichloromethane | 22.9 | 0.50 | µg/L | 20.0 | ND | 114 | 60-140 | | | |
| Bromoform | 20.9 | 0.50 | " | 20.0 | ND | 105 | 60-140 | | | |
| Chloroform | 21.2 | 0.50 | " | 20.0 | ND | 106 | 60-140 | | | |
| Dibromochloromethane | 20.1 | 0.50 | " | 20.0 | ND | 100 | 60-140 | | | |
| <i>Surrogate: 1,2-Dichloroethane-d4</i> | 11.9 | | " | 10.0 | | 119 | 70-130 | | | |
| <i>Surrogate: Toluene-d8</i> | 10.5 | | " | 10.0 | | 105 | 70-130 | | | |



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| California Rural Water Association 1234 N. Market Blvd. Sacramento, CA 95834 | Project: Wild Wings Project Number: [none] Project Manager: Dan Demoss | CLS Work Order #: 21C0124 COC #: 210236 |
|--|--|--|

Trihalomethanes by EPA Method 524.2 - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

Batch 2101811 - EPA 5030 Water MS

| Matrix Spike Dup (2101811-MSD1) | Source: 21C0097-01 | | | Prepared & Analyzed: 03/03/21 | | | | | | |
|----------------------------------|--------------------|------|------|-------------------------------|----|-----|--------|----|----|--|
| Bromodichloromethane | 21.3 | 0.50 | µg/L | 20.0 | ND | 106 | 60-140 | 7 | 30 | |
| Bromoform | 19.8 | 0.50 | " | 20.0 | ND | 99 | 60-140 | 6 | 30 | |
| Chloroform | 16.4 | 0.50 | " | 20.0 | ND | 82 | 60-140 | 25 | 30 | |
| Dibromochloromethane | 19.0 | 0.50 | " | 20.0 | ND | 95 | 60-140 | 6 | 30 | |
| Surrogate: 1,2-Dichloroethane-d4 | 9.83 | | " | 10.0 | | 98 | 70-130 | | | |
| Surrogate: Toluene-d8 | 11.6 | | " | 10.0 | | 116 | 70-130 | | | |



California Rural Water Association
1234 N. Market Blvd.
Sacramento, CA 95834

Project: Wild Wings
Project Number: [none]
Project Manager: Dan Demoss

CLS Work Order #: 21C0124
COC #: 210236

Notes and Definitions

- QM-7 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS and/or LCSD recovery.
- HT-F This is a field test method and it is performed in the lab outside holding time.
- BT-4 <1.8
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference