Technical Memorandum

Third Quarter 2017 Groundwater Monitoring Summary
National Aeronautics and Space Administration
Jet Propulsion Laboratory, Pasadena, California

Final October 2017

This technical memorandum summarizes the results of the third quarter 2017 groundwater sampling event completed as part of the groundwater monitoring program at the National Aeronautics and Space Administration (NASA) Jet Propulsion Laboratory (JPL). The third quarter 2017 groundwater sampling event was conducted from July 21 through August 4, 2017.

INTRODUCTION

During the third quarter 2017 sampling event, groundwater samples were collected from 23 JPL monitoring wells (MWs), both on- and off-facility and analyzed for volatile organic compounds (VOCs), total chromium, hexavalent chromium [Cr(VI)], and perchlorate. Figure 1 shows the locations of the groundwater monitoring wells.

Groundwater samples were shipped to BC Laboratories, Inc., in Bakersfield, California, for chemical analysis. BC Laboratories, Inc. is certified by the State Water Resources Control Board (SWRCB). Sample collection procedures and sample analyses were conducted in accordance with the approved *Work Plan for Performing a Remedial Investigation/Feasibility Study*[1]. No reported data were rejected for non-compliance with method requirements during validation and no reported data were deemed unusable.

Table 1 summarizes analytical results for VOCs and perchlorate and Table 2 summarizes analytical results for metals from the last five sampling events. Table 3 summarizes VOC and perchlorate concentrations in production wells located near the JPL facility from the last five sampling events. No tentatively identified compounds (TICs) were detected in the samples collected during the third quarter of 2017.

Figures summarizing the results from the third quarter 2017 sampling event are included in this technical memorandum. Figure 2 shows the lateral extent of carbon tetrachloride concentrations in groundwater and Figure 3 provides a cross-section detailing the horizontal and vertical extent of carbon tetrachloride. Figure 4 shows the lateral extent of perchlorate concentrations in groundwater and Figure 5 provides a cross-section detailing the horizontal and vertical extent of perchlorate in groundwater. Figure 6 shows the lateral extent of tetrachloroethene (PCE) concentrations in groundwater. Figure 7 shows the lateral extent of trichloroethene (TCE) concentrations in groundwater and Figure 8 shows groundwater elevation contours from the third quarter 2017 event and groundwater flow directions.

Attachment 1 summarizes the field and laboratory quality assurance (QA), data verification and data validation procedures utilized for the JPL groundwater monitoring program. Attachment 2 contains the data validation reports performed by an independent subcontractor, Laboratory Data Consultants, Inc. (LDC). Attachment 3 contains the laboratory analytical reports prepared by BC Laboratories, Inc. Attachment 4 contains the groundwater sample collection field logs for the JPL groundwater monitoring wells. Attachment 5 contains water level field measurement log sheets. Attachment 6 presents time series

[1] Ebasco. 1993. *Work Plan for Performing a Remedial Investigation/Feasibility Study*, National Aeronautics and Space Administration Jet Propulsion Laboratory, Pasadena, California. December.

plots for select wells and analytes. Attachment 7 presents historical perchlorate, VOC and metals concentrations from 1996 to present. A summary of the well construction details for the JPL groundwater monitoring wells is included in Attachment 8.

The groundwater monitoring wells have been grouped into four categories:

- On-facility source area wells (MW-7, MW-13, MW-16 and MW-24);
- Other on-facility wells (MW-6, MW-8, MW-11, MW-22 and MW-23);
- Perimeter off-facility wells (MW-1, MW-3, MW-4, MW-5, MW-9, MW-10, MW-12, MW-14 and MW-15 [MW-1 and MW-9 are only sampled during the second and fourth quarter events]); and
- Off-facility wells (MW-17, MW-18, MW-19, MW-20, MW-21, MW-25 and MW-26).

Well MW-2 has not been sampled since it was replaced with well MW-14.

ON-FACILITY SOURCE AREA WELLS

On-facility source area wells consist of wells that have historically contained the highest concentration of site-related chemicals. This group of wells is located within the JPL facility (on-facility) and consists of monitoring wells MW-7, MW-13, MW-16 and MW-24.

The source area treatment system has been operating since 2005 and addresses groundwater beneath the JPL facility, which has historically contained the highest concentrations of perchlorate and VOCs (i.e., the source area). Operation of the source area treatment system appears to have resulted in a significant reduction of chemicals of interest in wells MW-7, MW-16 and MW-24, which are located within the treatment zone. Additional details regarding chemical concentrations in these wells are presented below.

PERCHLORATE ANALYTICAL RESULTS

- During the third quarter 2017 sampling event, concentrations of perchlorate above the state maximum contaminant level (MCL) (6.0 micrograms per liter [µg/L]) were reported in samples collected from wells MW-7 (12.0 µg/L), MW-13 (230.0 µg/L) and MW-24 (Screen 1 [12.0 µg/L]).
- Perchlorate was detected below the state MCL of 6.0 µg/L in MW-24 (Screen 2 [1.9J µg/L]). 'J' qualifier indicates an estimated concentration.
- Perchlorate was not detected in the remaining on-facility source area wells that were sampled during this event (MW-16 and MW-24 [Screen 3]). The reporting and method detection limits were below the state MCL of 6.0 µg/L.
- Perchlorate concentrations increased in MW-13 from the second quarter 2017 to the third quarter 2017 (160.0 µg/L to 230.0 µg/L).
- Perchlorate concentrations decreased in MW-7 (50.0 µg/L to 12.0 µg/L), MW-16 (3.8J µg/L to non-detect), and MW-24 (Screen 1 [58.0 µg/L to 12.0 µg/L]) from the second quarter 2017 to the third quarter 2017.
- Perchlorate concentrations remained the same in MW-24 (Screen 2 [1.9J µg/L] and Screen 3 [non-detect]) from the second quarter 2017 to the third quarter 2017.

VOC Analytical Results

- Carbon tetrachloride was detected in one sample from MW-13 during the third quarter 2017, at 0.3J µg/L, which is below the state MCL of 0.5 µg/L. Carbon tetrachloride was not detected in the remaining on-facility source area wells.
- During the third quarter 2017, TCE was detected below the state and federal MCL of 5.0 µg/L in MW-13 at a concentration of 0.3J µg/L, which was below the previously detected concentration of 0.4J µg/L (second quarter 2017). TCE was not detected in the remaining on-facility source area wells sampled during this event.
- During the third quarter 2017, PCE was detected below the state and federal MCL of 5.0 µg/L in MW-13 at 0.3J µg/L, which was the same as the previously detected concentration of 0.3J µg/L (second quarter 2017). PCE was not detected in the remaining on-facility source area wells sampled during this event.

Other Notable Analytical Results

- Cr(VI)[2] was detected below the state MCL of 10.0 µg/L in MW-7 (1.1J µg/L), MW-13 (2.7 µg/L), MW-16 (1.6J µg/L), and MW-24 (Screen 2 [1.8J µg/L]). All other Cr(VI) results were non-detect in the on-facility source area wells.
- Total chromium was detected above the state MCL of 50.0 µg/L in MW-7 (7,400.0 µg/L), MW-13 (1,300.0 µg/L), and MW-16 (76.0 µg/L). Total chromium was detected below the state MCL in MW-24 (Screens 1 and 2 [4.6 µg/L and 3.9 µg/L, respectively]). Total chromium was not detected in MW-24 (Screens 3 and 4). Total chromium results in the on-facility source area wells will continue to be evaluated during subsequent sampling events.

Other On-facility Wells

This well group consists of monitoring wells MW-6, MW-8, MW-11, MW-22 and MW-23. These wells are located on the JPL facility but outside the source area.

Perchlorate Analytical Results

- During the third quarter 2017, perchlorate was not detected above the state MCL of 6.0 µg/L in the other on-facility wells.
- Perchlorate was detected below the state MCL of 6.0 µg/L in MW-6 (2.7J µg/L), MW-11 (Screen 1 [0.7J µg/l] and Screen 4 [0.9J µg/l]), MW-22 (Screens 1 through 3 [5.6 µg/L, 4.3 µg/L, and 2.3J µg/L, respectively]), and MW-23 (Screens 1 through 3 [3.9J µg/L, 4.7 µg/L, and 2.7J µg/L, respectively]).
- Perchlorate concentrations increased from their respective last sampling event to the third quarter 2017 in MW-11 (Screen 1 [non-detect to 0.7J µg/L] and Screen 4 [non-detect to 0.9J µg/L]), MW-22 (Screens 1 through 3 [3.4J µg/L to 5.6 µg/L, 3.4J µg/L to 4.3 µg/L, and

[2] On July 1, 2014, the State Water Resources Control Board (SWRCB) adopted an MCL for Cr(VI) of 10.0 µg/L. See http://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/Chromium6.shtml.

1.2J µg/L to 2.3J µg/L, respectively]), and MW-23 (Screen 1 [2.9J µg/L to 3.9J µg/L] and Screen 2 [3.6J µg/L to 4.7 µg/L]).

- Perchlorate concentrations decreased slightly from their respective last sampling event to the third quarter 2017 in MW-6 (3.0J µg/L to 2.7J µg/L), MW-8 (1.2J µg/L to non-detect), and MW-23 (Screen 3 [3.0J µg/L to 2.7J µg/L]).
- During the third quarter 2017, perchlorate was not detected in MW-8 and MW-11 (Screens 2 and 3), with a reporting limit of 4.0 µg/L.

VOC ANALYTICAL RESULTS

- During the third quarter 2017, carbon tetrachloride was not detected in other on-facility wells above the reporting limit of 0.5 µg/L.
- During the third quarter 2017, TCE was not detected above the state and federal MCL of 5.0 µg/L. TCE was detected below the state and federal MCL in MW-6 (2.7 µg/L), MW-22 (Screen 1 [0.7 µg/L]), and MW-23 (Screen 1 [1.5 µg/L] and Screen 2 [4.1 µg/L]). TCE was not detected in the remaining other on-facility wells.
- During the third quarter 2017, PCE was detected below the state and federal MCL of 5.0 µg/L in MW-6 (0.6 µg/L), MW-22 (Screen 1 [0.2J µg/L]), and MW-23 (Screen 2 [0.9 µg/L]). PCE was not detected in the remaining other on-facility wells.

OTHER NOTABLE ANALYTICAL RESULTS

- During the third quarter 2017, Cr(VI) was detected below the state MCL of 10.0 µg/L in MW-6 (2.0 µg/L), MW-8 (0.8J µg/L), MW-22 (Screen 2 [1.3J µg/L]) and Screen 3 [2.3 µg/L]), and MW-23 (Screens 2 through 4 [1.1J µg/L, 2.9 µg/L, and 3.1 µg/L, respectively]). All other Cr(VI) results were non-detect in the other on-facility wells.
- During the third quarter 2017, total chromium was detected above the state MCL of 50 µg/L in MW-6 (120.0 µg/L). Total chromium was detected below the state MCL of 50 µg/L in MW-22 (Screen 2 [3.2 µg/L]) and Screen 3 [3.1 µg/L]), and MW-23 (Screens 1 through 4 [2.0J µg/L, 2.2J µg/L, 3.8 µg/L, and 3.7 µg/L, respectively]). Total chromium was not detected in wells MW-8 and MW-11 (Screens 1 through 3).
- Total chromium in well MW-6 has been detected at or above the state MCL of 50.0 µg/L sixteen times (third quarter 1996 [50.0 µg/L], third quarter 1999 [310 µg/L], second quarter 2000 [82.0 µg/L], third quarter 2000 [51.0 µg/L], second quarter 2012 [83.0 µg/L], second quarter 2014 [190 µg/L], fourth quarter 2014 [270 µg/L], second quarter 2015 [78.0 µg/L], second quarter 2015 [820.0 µg/L], third quarter 2015 [250.0J µg/L], fourth quarter 2015 [65.0J µg/L], first quarter 2016 [73.0 µg/L], second quarter 2016 [60.0 µg/L], third quarter 2016 [53.0 µg/L], second quarter 2017 [80.0 µg/L]), and third quarter 2017 [120.0 µg/L] since it was first monitored for total chromium in 1996. Total chromium results in the other on-facility wells will continue to be closely evaluated during subsequent sampling events.

PERIMETER OFF-FACILITY WELLS

The perimeter off-facility wells are located near the JPL fence line along the perimeter of the property. This group of wells consists of MW-1, MW-3, MW-4, MW-5, MW-9, MW-10, MW-12, MW-14 and MW-15. Wells MW-1 and MW-9 are only sampled during the second and fourth quarter events.

PERCHLORATE ANALYTICAL RESULTS

- During the third quarter 2017, perchlorate was not detected above the state MCL of 6.0 µg/L in the perimeter off-facility wells sampled.
- Perchlorate was detected below the state MCL of 6.0 µg/L in MW-3 (Screens 2 through 4 [1.2J µg/L, 1.0J µg/L, and 1.0J µg/L, respectively]), MW-4 (Screen 2 [4.3 µg/L]), MW-10 (2.0J µg/L), MW-12 (Screens 3 through 5 [3.2J µg/L, 2.6J µg/L, and 2.7J µg/L, respectively]), and MW-14 (Screens 1 through 4 [2.7J µg/L, 3.0J µg/L, 4.7 µg/L, and 3.8J µg/L, respectively]).
- During the third quarter 2017, perchlorate was non-detect in MW-4 (Screens 1 and 3), MW-5, MW-12 (Screens 1 and 2), and MW-14 (Screen 5).
- Perchlorate concentrations increased slightly from their respective last sampling date to the third quarter 2017 in MW-3 (Screen 3 [0.7J µg/L to 1.0J µg/L] and Screen 4 [non-detect to 1.0J µg/L], MW-10 (1.6J µg/L to 2.0J µg/L), MW-12 (Screen 4 [2.2J µg/L to 2.6J µg/L] and Screen 5 [1.8J µg/L to 2.7J µg/L]), and MW-14 (Screen 1 [2.6J µg/L to 2.7J µg/L] and Screen 4 [3.7J µg/L to 3.8J µg/L]).
- Perchlorate concentrations decreased slightly from their respective last sampling event to the third quarter 2017 in MW-3 (Screen 2 [2.7J µg/L to 1.2J µg/L]), MW-4 (Screen 2 [4.4 µg/L to 4.3 µg/L]), MW-12 (Screen 3 [4.2 µg/L to 3.2J µg/L]), and MW-14 (Screen 2 [4.8 µg/L to 3.0J µg/L] and Screen 3 [5.0 µg/L to 4.7 µg/L]).

VOC ANALYTICAL RESULTS

- During the third quarter 2017, carbon tetrachloride was detected below the state MCL of 0.5 µg/L in MW-12 (Screen 3 [0.4J µg/L and Screen 4 [0.3J µg/L]). No other carbon tetrachloride detections occurred in the perimeter off-facility wells during the third quarter 2017.
- During the third quarter 2017, TCE was detected below the state and federal MCL (5.0 µg/L) in MW-4 (Screen 2 [1.3 µg/L] and Screen 3 [0.7 µg/L]), and MW-14 (Screens 1 through 3 [0.5 µg/L, 1.7 µg/L, and 1.0 µg/L, respectively]). No other TCE detections occurred in the perimeter off-facility wells during the third quarter 2017.
- During the third quarter 2017, PCE was detected below the state and federal MCL (5.0 µg/L) in wells MW-3 (Screen 3 [0.3J µg/L]), MW-4 (Screen 2 [0.2J µg/L]), and MW-14 (Screen 2 [0.4J µg/L] and Screen 3 [0.4J µg/L]). No other PCE detections occurred in the perimeter off-facility wells during the third quarter 2017.

OTHER NOTABLE ANALYTICAL RESULTS

- During the third quarter 2017, Cr(VI) was detected below the state MCL of 10.0 µg/L in MW-3 (Screen 3 [1.3J µg/L]), MW-10 (2.9 µg/L), and MW-14 (Screen 1 [0.9J µg/L] and Screen 2

[0.9J µg/L]). No other Cr(VI) detections occurred in the perimeter off-facility wells during the third quarter 2017.

- During the third quarter 2017, total chromium was detected below the state MCL of 50.0 µg/L in MW-3 (Screen 4 [38.0 µg/L]), MW-4 (Screen 2 [4.2 µg/L] and Screen 3 [8.6 µg/L]), MW-10 (3.8 µg/L), and MW-15 (5.9 µg/L). No other total chromium detections occurred in the perimeter off-facility wells during the third quarter 2017.

OFF-FACILITY WELLS

The off-facility wells consist of monitoring wells MW-17, MW-18, MW-19, MW-20, MW-21, MW-25 and MW-26. These wells are located near and down gradient of the two off-facility treatment plants: Monk Hill Treatment System (MHTS) and Lincoln Avenue Water Company (LAWC) treatment system. Daily operation of the MHTS began in February 2011. Operation of the LAWC system began in July 2004.

PERCHLORATE ANALYTICAL RESULTS

- During the third quarter 2017 sampling event, concentrations of perchlorate above the state MCL of 6.0 µg/L were reported in samples collected from wells MW-18 (Screen 4 [14.0 µg/L]), MW-21 (Screen 1 [7.7 µg/L]), and MW-25 (Screens 1 through 4 [7.2 µg/L, 12.0 µg/L, 8.4 µg/L, and 7.5 µg/L, respectively]).
- Perchlorate was detected below the state MCL of 6.0 µg/L in MW-17 (Screen 3 [5.6 µg/L] and Screen 4 [0.9J µg/L]), MW-18 (Screen 3 [4.3 µg/L]), MW-19 (Screens 2 through 5 [2.6J µg/L, 3.6J µg/L, 2.9J µg/L, and 1.7J µg/L, respectively), MW-20 (Screen 2 [3.9J µg/L]), MW-21 (Screens 2 through 5 [1.1J µg/L, 3.0J µg/L, 2.3J µg/L, and 2.3J µg/L, respectively]), and MW-26 (Screen 1 [2.4J µg/L] and Screen 2 [3.9J µg/L]).
- Concentrations of perchlorate were not detected in MW-17 (Screen 2), MW-18 (Screens 2 and 5), MW-19 (Screen 1), MW-20 (Screens 1, 3, 4, and 5), and MW-25 (Screen 5) with a reporting limit of 4.0 µg/L.
- Perchlorate concentrations increased from their respective last sampling event to the third quarter 2017 in MW-17 (Screen 3 [5.3 µg/L to 5.6 µg/L]), MW-20 (Screen 2 [2.6J µg/L to 3.9J µg/L]), MW-21 (Screen 1 [6.5 µg/L to 7.7 µg/L]), and MW-26 (Screen 2 [3.2J µg/L to 3.9J µg/L]).
- Perchlorate concentrations decreased from their respective last sampling event to the third quarter 2017 in MW-17 (Screen 4 [1.0J µg/L to 0.9J µg/L]), MW-18 (Screen 3 [6.2 µg/L to 4.3 µg/L] and Screen 4 [17.0 µg/L to 14.0 µg/L]), MW-19 (Screens 1 through 5 [0.7J µg/L to non-detect, 3.6J µg/L to 2.6J µg/L, 4.3 µg/L to 3.6J µg/L, 3.4J µg/L to 2.9J µg/L, and 2.2J µg/L to 1.7J µg/L, respectively]), MW-21 (Screens 2 through 5 [1.8J µg/L to 1.1J µg/L, 4.0 µg/L to 3.0J µg/L, 2.4J µg/L to 2.3J µg/L, and 2.6J µg/L to 2.3J µg/L, respectively]), MW-25 (Screens 1 through 4 [8.8 µg/L to 7.2 µg/L, 13.0 µg/L to 12.0 µg/L, 9.2 µg/L to 8.4 µg/L, and 8.2 µg/L to 7.5 µg/L, respectively]), and MW-26 (Screen 1 [3.0J µg/L to 2.4J µg/L].
- The perchlorate concentration of 0.9J µg/L in MW-17 (Screen 4) is the tenth detection below the state MCL (6.0 µg/L) since the first quarter 2015. From the first quarter 2013 through the fourth quarter 2014, the perchlorate concentrations in MW-17 (Screen 4) exceeded the state MCL in seven of the eight quarters with exceedances ranging from 6.8 µg/L to 18.0 µg/L. From the third quarter 2002 to the fourth quarter 2012, the perchlorate concentrations in MW-17 (Screen 4) had been either non-detect or below the state MCL (6.0 µg/L) with only one

detection that exceeded the state MCL (second quarter 2003 [6.5 µg/L]). MW-17 is located downgradient of the MHTS and within the capture zone of the LAWC treatment system.

VOC Analytical Results

- During the third quarter 2017, carbon tetrachloride was detected above the state MCL (0.5 µg/L) in MW-18 (Screen 3 [0.6 µg/L] and Screen 4 [1.2 µg/L]). Carbon tetrachloride was not detected in the remaining off-facility wells during the third quarter 2017.
- Since the first quarter 2005, the carbon tetrachloride concentrations in MW-18 (Screen 3) have exceeded the state MCL (0.5 µg/L). Carbon tetrachloride detections in MW-18 (Screen 4) have exceeded the state MCL (0.5 µg/L) since the third quarter 1996.
- During the third quarter 2017, TCE was detected in MW-17 (Screen 3 [1.4 µg/L] and Screen 4 [0.4J µg/L]), MW-18 (Screen 4 [0.7 µg/L]), MW-19 (Screen 2 [1.3 µg/L] and Screen 3 [0.2J µg/L]), MW-20 (Screen 2 [0.8 µg/L]), MW-21 (Screens 1, 3, and 4 [0.2J µg/L, 1.1 µg/L, and 0.3J µg/L, respectively]), MW-25 (Screen 1 [1.8 µg/L]), and MW-26 (Screen 1 [0.2J µg/L] and Screen 2 [0.3J µg/L]); however, no detections exceeded the state and federal MCL (5.0 µg/L). TCE was not detected in the remaining off-facility wells during the third quarter 2017.
- During the third quarter 2017, PCE was detected in MW-17 (Screen 3 [0.3J µg/L]), MW-18 (Screen 4 [0.5J µg/L]), MW-19 (Screens 2 through 5 [2.5 µg/L, 0.5 µg/L, 0.6 µg/L, and 0.3J µg/L, respectively]), MW-20 (Screen 3 [0.3J µg/L]), MW-21 (Screens 2 through 5 [0.6 µg/L, 1.1 µg/L, 1.2 µg/L, and 1.0 µg/L, respectively]), and MW-26 (Screen 1 [0.7 µg/L] and Screen 2 [1.8 µg/L]); however, no detections exceeded the state and federal MCL (5.0 µg/L). PCE was not detected in the remaining off-facility wells during the third quarter 2017.

Other Notable Analytical Results

- During the third quarter 2017, Cr(VI) was detected below the state MCL of 10.0 µg/L in MW-18 (Screen 3 [1.6J µg/L] and Screen 4 [1.6J µg/L]), MW-21 (Screens 1, 4, and 5 [1.8J µg/L, 1.3J µg/L, and 1.4J µg/L, respectively]), MW-25 (Screens 2 through 4 [3.1J µg/L, 3.3J µg/L, and 1.1J µg/L, respectively]), and MW-26 (Screen 2 [1.3J µg/L]). Cr(VI) was not detected in the remaining off-facility wells.
- During the third quarter 2017, total chromium was detected below the state MCL of 50.0 µg/L in MW-21 (Screen 3 [4.2 µg/L]), MW-25 (Screens 1 through 3 [3.1 µg/L, 4.2 µg/L, and 4.1 µg/L, respectively]), and MW-26 (Screen 1 [1.6J µg/L] and Screen 2 [3.0 µg/L]). Total chromium was not detected in the remaining off-facility wells.

All Well Categories (Other Results)

- Comparing the second quarter 2017 to the third quarter 2017, groundwater elevations decreased by an average of 13.32 feet.
- Groundwater elevations recorded in the JPL monitoring wells showed a steady decline from the first and second quarters of 2011 through the fourth quarter of 2014, when they approached and/or exceeded historic lows last recorded in 1996 and 1997. As noted above, groundwater elevations decreased by an average of 13.32 feet between the second quarter 2017 and the third quarter 2017. Groundwater elevations still remain approximately 56.90 feet below the first and

second quarter 2011 elevations. Groundwater elevations will be closely monitored as one of the most severe droughts on record for California (which caused groundwater levels to decline from 2011 through 2016) ended during the 2016/2017 rainy season.

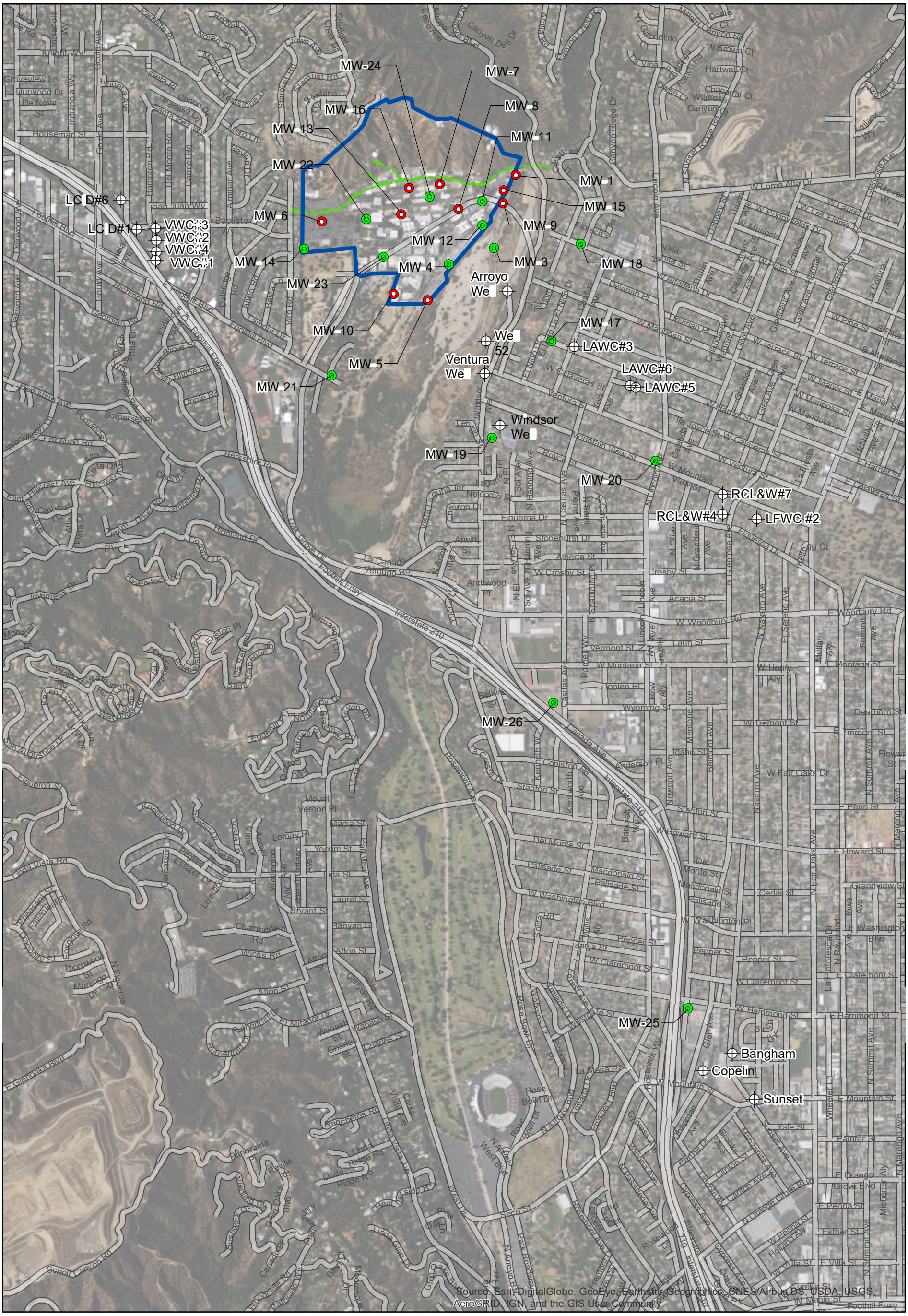
- Groundwater level measurements collected during the third quarter 2017 indicate that groundwater gradients and flow directions are generally consistent with previous observations (see Figure 8).

ATTACHMENTS

Attachments to this technical memorandum include the following:

- Attachment 1: Quality Assurance/Quality Control Summary
- Attachment 2: Data Validation Reports
- Attachment 3: Laboratory Analytical Reports
- Attachment 4: Field Logs
- Attachment 5: Water Level Measurements
- Attachment 6: Time-Series Concentration Plots
- Attachment 7: Tables 1A, 2A and 3A (Historical Perchlorate, VOCs and Metals from 1996 to present)
- Attachment 8: Summary of Construction Details for All JPL Groundwater Monitoring Wells

FIGURES



N
W E
S

0 750 1,500
Feet

Legend

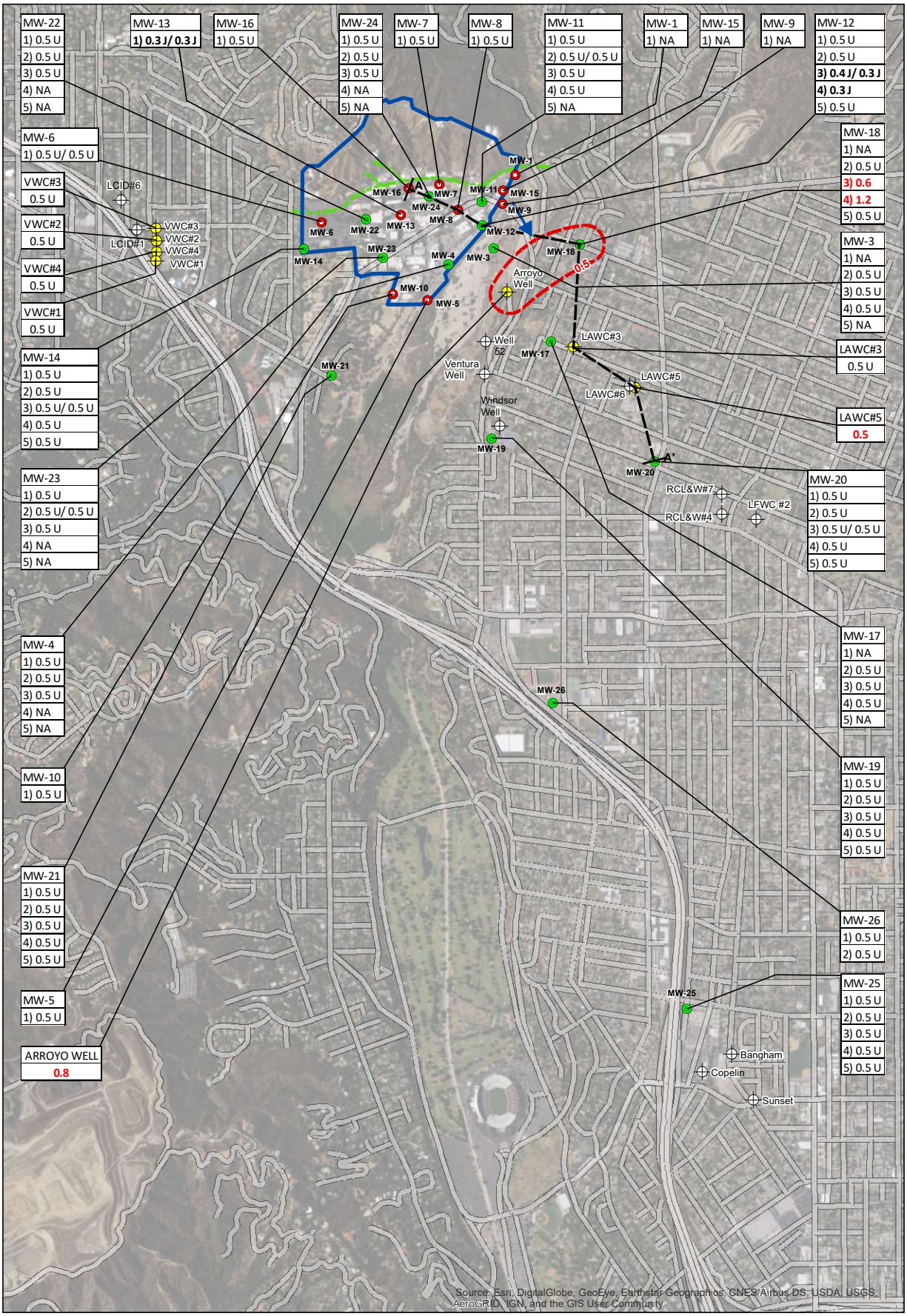
- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well
- Approximate Location of Thrust Fault
- JPL Facility Boundary

THE BODHI GROUP

TIDEWATER INC
ENGINEERS / SCIENTISTS / PROGRAM MANAGERS

Locations of JPL Groundwater Monitoring Wells and Nearby Municipal Production Wells

DESIGNED BY SG/AD DRAWN BY SG/AD CHECKED BY DC	JPL - Pasadena, CA Contract No: W912PL-16-C-0006	Figure 1 October 2017



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From May - July 2017)
- Approximate Location of Thrust Fault
- Groundwater Flow Direction
- Cross-Section Transect A-A'
- Estimated isoconcentration line (0.5 micrograms per liter)
- JPL Facility Boundary

MW-8 / 1) 0.5 U — Well ID; Screen number; Concentration in micrograms per liter

J = Detected estimated value
U = Not detected estimated value
Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 0.5 micrograms per liter; red font indicates concentration exceeds MCL.

N W E S

0 750 1,500 Feet

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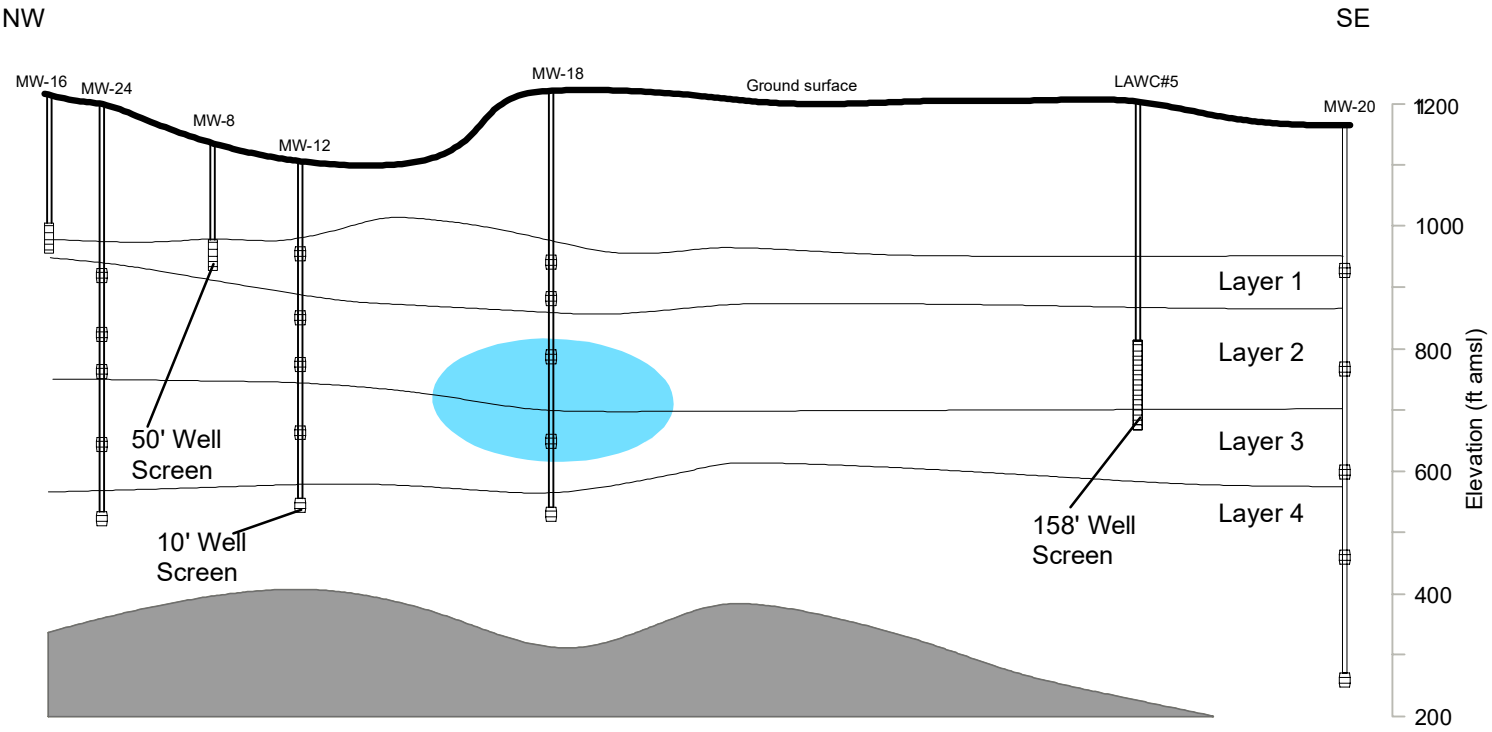
Carbon Tetrachloride in Groundwater
July/August 2017

DESIGNED BY AD/SG	JPL - Pasadena, CA	Figure 2
DRAWN BY AD/SG	Contract No: W912PL-16-C-0006	October 2017
CHECKED BY DC		



Note: Concentrations are Reported in µg/L

50.0
20.0
10.0
5.0
0.5

Z exag: 3.0

0 500 1000

HORIZONTAL SCALE
IN FEET
(Approximate)

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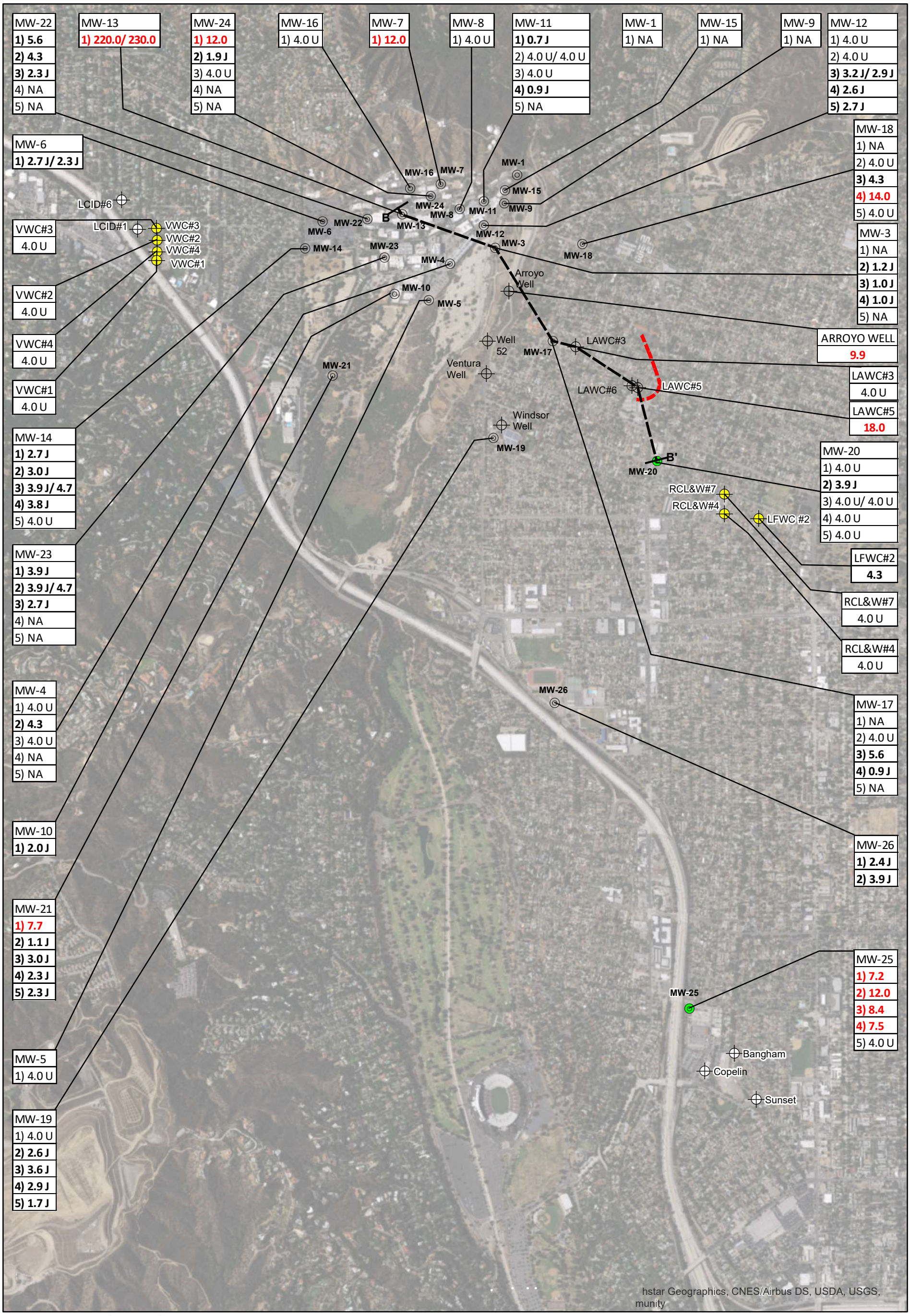
Horizontal and Vertical Extent of Carbon Tetrachloride in Groundwater along section A-A', July/August 2017

DESIGNED BY AD/SG DRAWN BY	JPL - Pasadena, CA	Figure 3
AD/SG CHECKED BY DC	Contract No: W912PL-16-C-0006	October 2017



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From May - July 2017)
- Approximate Location of Thrust Fault
- Cross-Section Transect B-B'
- Estimated isoconcentration line (6 UG/L)
- Groundwater Flow Direction
- JPL Facility Boundary

N, W, E, S

0 750 1,500 Feet

MW-8 / 1) 0.5 U — Well ID; Screen number; Concentration in micrograms per liter

J = Detected estimated value
U = Not detected estimated value
Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 6 micrograms per liter; red font indicates concentration exceeds MCL.

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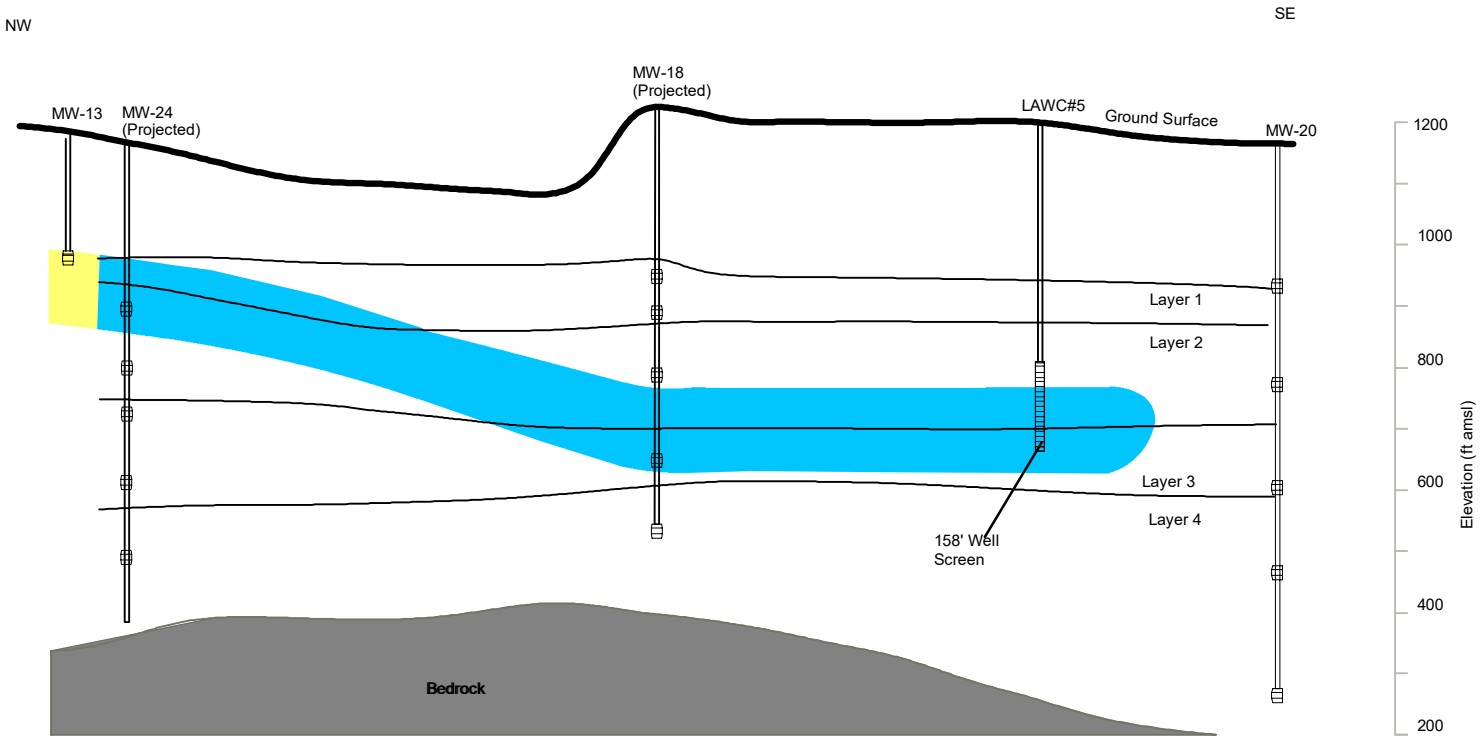
Perchlorate in Groundwater
July/August 2017

DESIGNED BY AD/SG DRAWN BY AD/SG CHECKED BY DC	JPL - Pasadena, CA Contract No: W912PL-16-C-0006	Figure 4 October 2017



Note: Concentrations are Reported in µg/L

1000.0
500.0
200.0
100.0
6.0
4.0

Z exag: 3.0

0 500 1000

HORIZONTAL SCALE
IN FEET
(Approximate)

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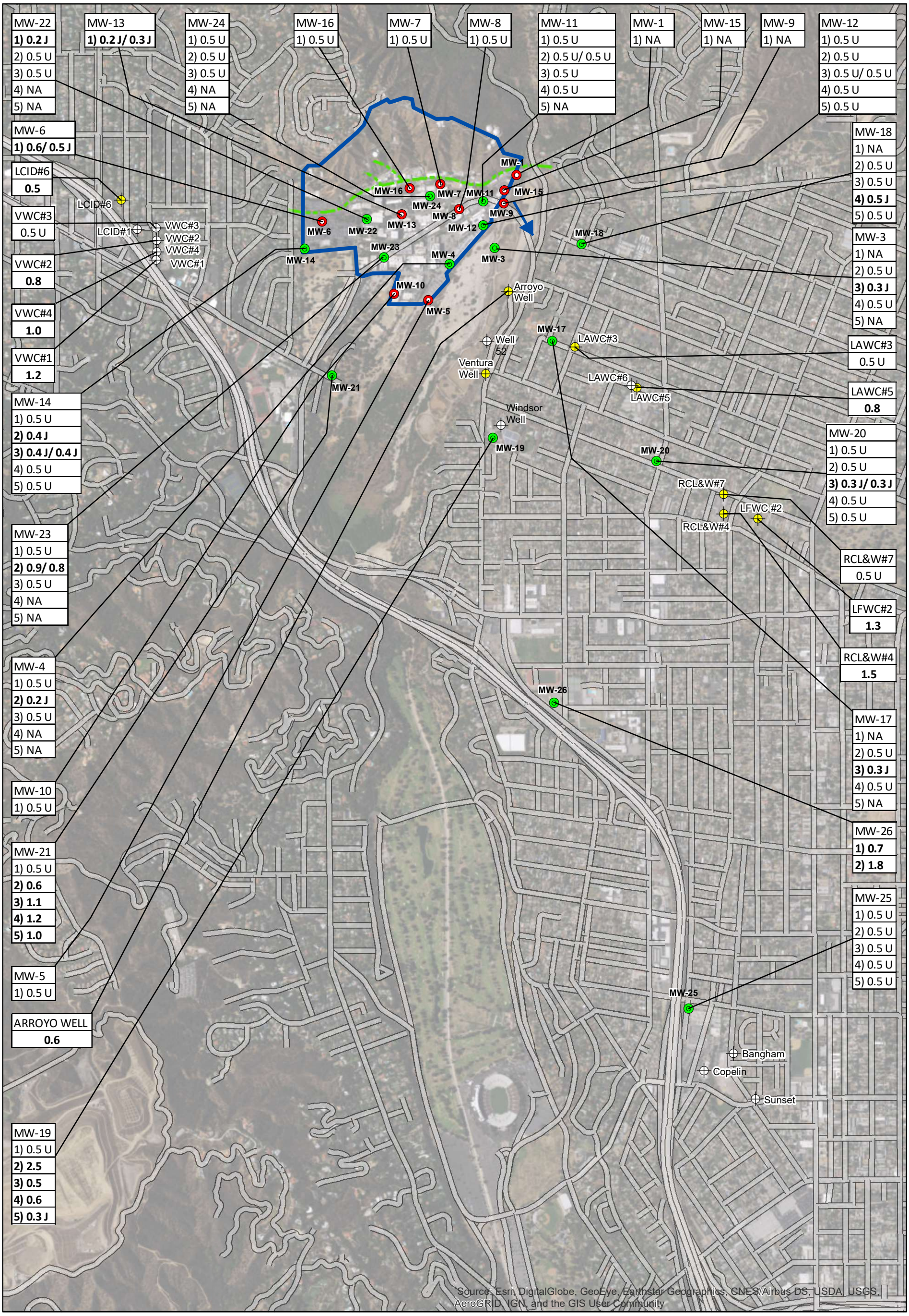
Horizontal and Vertical Extent of Perchlorate in Groundwater along section B-B', July/August 2017

DESIGNED BY JHG DRAWN BY SG CHECKED BY DC	JPL - Pasadena, CA	Figure 5
	Contract No: W912PL-16-C-0006	October 2017



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From May - July 2017)
- Approximate Location of Thrust Fault
- Groundwater Flow Direction
- Estimated isoconcentration line (5 micrograms per liter)
- JPL Facility Boundary

N, W, E, S

0 750 1,500 Feet

MW-8
1) 0.5 U

Well ID; Screen number; Concentration in micrograms per liter

J = Detected estimated value
U = Not detected estimated value
Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 5 micrograms per liter; red font indicates concentration exceeds MCL.

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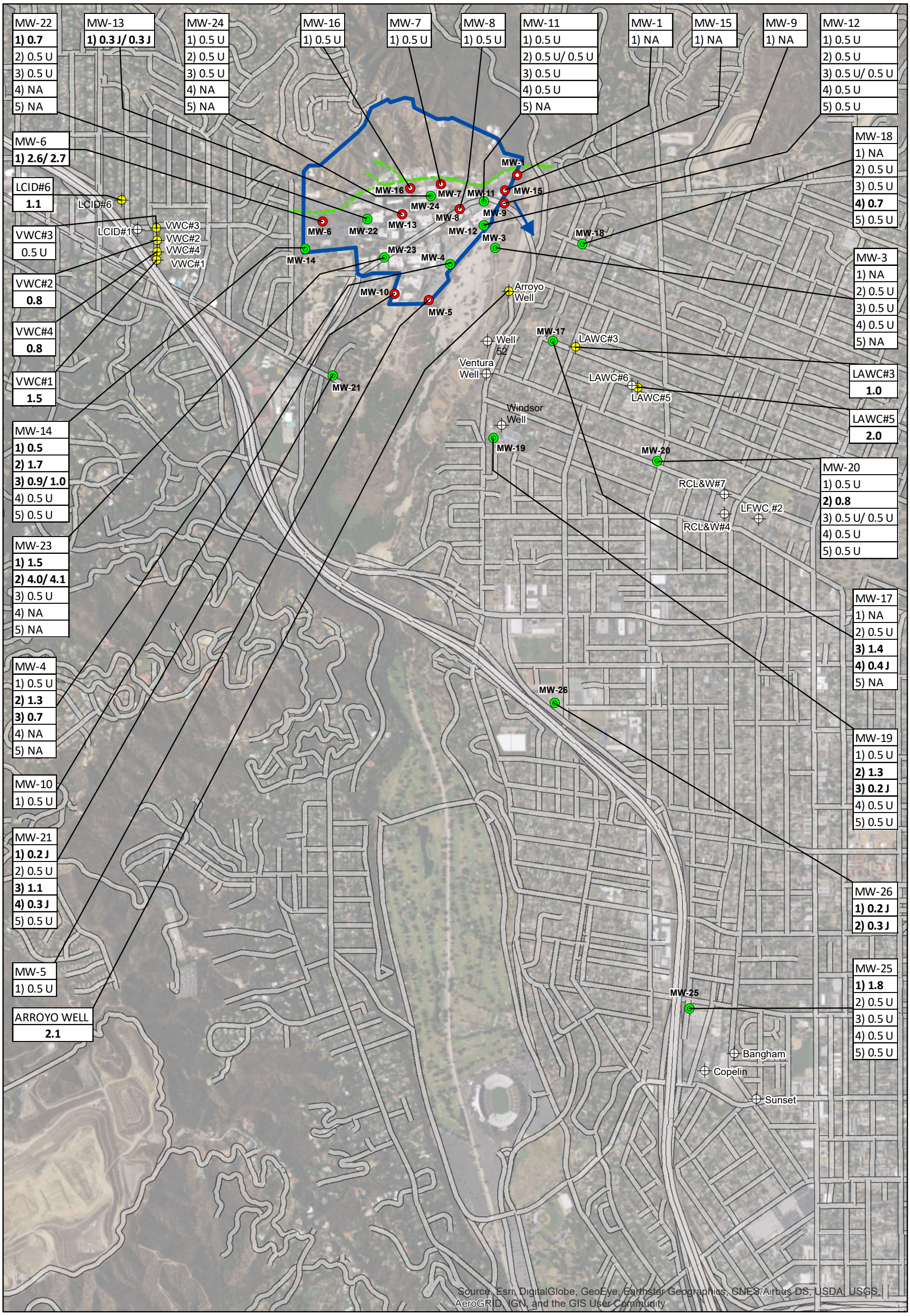
Tetrachloroethene in Groundwater July/August 2017

DESIGNED BY: SG/AD	JPL - Pasadena, CA	Figure 6
DRAWN BY: SG/AD	Contract No: W912PL-16-C-0006	October 2017
CHECKED BY: DC		



Legend

- Deep Multi-Port Monitoring Well Location
- Shallow Monitoring Well Location
- Municipal Production Well (Data Not Available)
- Municipal Production Well (Data From May - July 2017)
- Approximate Location of Thrust Fault
- Estimated isoconcentration line (5 micrograms per liter)
- Groundwater Flow Direction
- JPL Facility Boundary

MW-8 / 1) 0.5 U — Well ID; Screen number; Concentration in micrograms per liter

J = Detected estimated value
U = Not detected estimated value
Bold font indicates detected concentration below the State maximum contaminant level (MCL) of 5 micrograms per liter; red font indicates concentration exceeds MCL.

N W E S

0 750 1,500 Feet

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Trichloroethene in Groundwater July/August 2017

DESIGNED BY: SG/AD	JPL - Pasadena, CA	Figure 7
DRAWN BY: SG/AD	Contract No: W912PL-16-C-0006	October 2017
CHECKED BY: DC		

MW-24 [973.89]
MW-7 [974.37]
MW-16 [975.74]
MW-8 [974.82]
MW-13 [973.34]
MW-11 [1018.15]
MW-1 [1086.75]
MW-22 [972.12]
980
1080
1060
1040
1020
1000
MW-15 [1086.01]
LCID#6
MW-6 [973.18]
MW-9 [1084.02]
LCID#1
VWC#3
VWC#2
VWC#4
VWC#1
MW-12 [981.33]
MW-14 [974.27]
MW-18 [959.72
MW-4 [970.63]
Arroyo Well
MW-3 [968.30]
MW-23 [972.17]
MW-10 [971.16]
Well 52
LAWC#3
Ventura Well
LAWC#6
MW-21 [972.75]
MW-5 [971.77]
MW-17 [967.63]
LAWC#5
Windsor Well
MW-20 [937.77]
960
MW-19 [959.72]
RCL&W#7
RCL&W#4
LFWC #2
940
MW-26 [950.22]
MW-25 [687.86]
Bangham
Copelin
Sunset

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

N
W
E
S

0 750 1,500 Feet

Legend

- Deep Multi-Port Monitoring Well Location [Groundwater elevation in feet AMSL]
- Shallow Monitoring Well Location
- Municipal Production Well
- Groundwater contour (elevation in feet AMSL)
- Groundwater Flow Direction
- Approximate Location of Thrust Fault
- JPL Facility Boundary

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Groundwater Elevation Contours
July 2017

DESIGNED BY SG DRAWN BY SG CHECKED BY DC	JPL - Pasadena, CA	Figure 8
	Contract No: W912PL-16-C-0006	October 2017

TABLES

TABLE 1

SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE DETECTED DURING THE LAST FIVE SAMPLING EVENTS OF THE LONG-TERM QUARTERLY GROUNDWATER SAMPLING PROGRAM

(All concentrations reported in µg/L.)

(Shaded values exceed State or Federal MCL or action levels.)

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-1													
MW-1	Oct 2016	MW-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-1	Apr/May 2017	MW-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-3-Screen-1													
MW-3-Screen-1	Oct 2016	MW-3-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-3-Screen-1	Apr/May 2017	MW-3-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-3-Screen-2													
MW-3-Screen-2	Jul/Aug 2016	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**	**46.0**		
MW-3-Screen-2	Oct 2016	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.5 J**	**23.0**		
MW-3-Screen-2	Jan/Feb 2017	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**11.0**		
MW-3-Screen-2	Apr/May 2017	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.7 J**		
MW-3-Screen-2	Jul/Aug 2017	MW-3-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2 J**		
MW-3-Screen-3													
MW-3-Screen-3	Jul/Aug 2016	MW-3-3	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-3-Screen-3	Oct 2016	MW-3-3	0.5 U	**0.1 J**	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3 J**		
MW-3-Screen-3	Jan/Feb 2017	MW-3-3	0.5 U	0.5 U	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-3-Screen-3	Apr/May 2017	MW-3-3	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-3-Screen-3	Jul/Aug 2017	MW-3-3	0.5 U	0.5 U	**0.3 J**	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.0 J**		
MW-3-Screen-4													
MW-3-Screen-4	Jul/Aug 2016	MW-3-4	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3 J**		
MW-3-Screen-4	Oct 2016	MW-3-4	0.5 U	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.9 J**		
MW-3-Screen-4	Jan/Feb 2017	MW-3-4	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-3-Screen-4	Jan/Feb 2017	DUP-2-1Q17	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-3-Screen-4	Apr/May 2017	MW-3-4	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-3-Screen-4	Jul/Aug 2017	MW-3-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0 J**		
MW-3-Screen-5													
MW-3-Screen-5	Oct 2016	MW-3-5	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-3-Screen-5	Apr/May 2017	MW-3-5	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-4-Screen-1													
MW-4-Screen-1	Jul/Aug 2016	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acetone**	**25**
MW-4-Screen-1	Oct 2016	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-1	Jan/Feb 2017	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ		
MW-4-Screen-1	Jan/Feb 2017	DUP-6-1Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8 J**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-4-Screen-1	Apr/May 2017	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-1	Jul/Aug 2017	MW-4-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-2													
MW-4-Screen-2	Jul/Aug 2016	MW-4-2	0.5 U	**1.3**	**0.4 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**5.2**		
MW-4-Screen-2	Oct 2016	MW-4-2	0.5 U	**1.1**	**0.4 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.3 J**	**4.6**		
MW-4-Screen-2	Jan/Feb 2017	MW-4-2	0.5 U	**1.6**	**0.3 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**4.3 J**		
MW-4-Screen-2	Apr/May 2017	MW-4-2	0.5 U	**5.2**	**1.3**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.9**	**4.4**	**trans-1,2-Dichloroethene**	**0.2 J**
MW-4-Screen-2	Jul/Aug 2017	MW-4-2	0.5 U	**1.3**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**4.3**		
MW-4-Screen-3													
MW-4-Screen-3	Jul/Aug 2016	MW-4-3	0.5 U	**0.6**	**0.2 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-3	Oct 2016	MW-4-3	0.5 U	**0.2 J**	**0.2 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-3	Jan/Feb 2017	MW-4-3	0.5 U	**1.0**	**0.3 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ		
MW-4-Screen-3	Apr/May 2017	MW-4-3	0.5 U	**1.1**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-3	Jul/Aug 2017	MW-4-3	0.5 U	**0.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-4													
MW-4-Screen-4	Oct 2016	MW-4-4	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.2 J**
MW-4-Screen-4	Oct 2016	DUP-5-4Q16	0.5 U	**0.4 J**	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.2 J**
MW-4-Screen-4	Apr/May 2017	MW-4-4	0.5 U	**1.2**	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-4-Screen-5													
MW-4-Screen-5	Oct 2016	MW-4-5	0.5 U	**1.2**	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**cis-1,2-Dichloroethene** **Ethylbenzene** **Styrene**	**0.3 J** **0.6** **0.2 J**
MW-4-Screen-5	Apr/May 2017	MW-4-5	0.5 U	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Ethylbenzene**	**0.2 J**
MW-5													
MW-5	Jul/Aug 2016	MW-5	0.5 U	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.5 J**		
MW-5	Oct 2016	MW-5	0.5 U	**2.8**	**0.6**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**6.8**		
MW-5	Jan/Feb 2017	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-5	Apr/May 2017	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-5	Jul/Aug 2017	MW-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-6													
MW-6	Jul/Aug 2016	MW-6	0.5 U	**4.1**	**0.9**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.8**	**3.0 J**		
MW-6	Jul/Aug 2016	DUP-4-3Q16	0.5 U	**4.2**	**1.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.7**	**3.8 J**	**cis-1,2-Dichloroethene**	**0.1 J**
MW-6	Oct 2016	MW-6	0.5 U	**2.2**	**0.5**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**3.9 J**		
MW-6	Jan/Feb 2017	MW-6	0.5 U	**4.5**	**1.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.8**	**4.2**	**trans-1,2-Dichloroethene**	**0.3 J**
MW-6	Jan/Feb 2017	DUP-4-1Q17	0.5 U	**4.6**	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**	**2.3**	**trans-1,2-Dichloroethene**	**0.2 J**
MW-6	Apr/May 2017	MW-6	0.5 U	**4.4**	**0.9**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.8**	**3.0 J**	**trans-1,2-Dichloroethene**	**0.2 J**
MW-6	Jul/Aug 2017	MW-6	0.5 U	**2.6**	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**0.5 J**	**2.7 J**		
MW-6	Jul/Aug 2017	DUP-7-3Q17	0.5 U	**2.7**	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	**2.3 J**		
MW-7													
MW-7	Jul/Aug 2016	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.7**	**2.8 J**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-7	Apr/May 2017	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.7**	**50.0**	**Bromodichloromethane** **Dibromochloromethane**	**2.1** **0.5 J**
MW-7	Jul/Aug 2017	MW-7	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.4**	**12.0**	**Bromodichloromethane**	**0.2 J**
MW-8													
MW-8	Jul/Aug 2016	MW-8	**0.4 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.9**	**67.0**	**Bromodichloromethane**	**0.3 J**
MW-8	Jul/Aug 2016	DUP-5-3Q16	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.0**	**65.0**	**Bromodichloromethane** **Acetone**	**0.3 J** **12.0**
MW-8	Oct 2016	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.0**	**4.2**	**Bromodichloromethane**	**0.2 J**
MW-8	Jan/Feb 2017	MW-8	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.2**	**23.0**	**Bromodichloromethane**	**0.2 J**
MW-8	Jan/Feb 2017	MW-8	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.6**	**21.0**		
MW-8	Apr/May 2017	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2 J**	**Trichlorofluoromethane**	**0.3 J**
MW-8	Jul/Aug 2017	MW-8	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Trichlorofluoromethane**	**0.1 J**
MW-9													
MW-9	Oct 2016	MW-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-9	Oct 2016	DUP-7-4Q16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-9	Apr/May 2017	MW-9	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.3 J**		
MW-10													
MW-10	Jul/Aug 2016	MW-10	0.5 U	**7.5**	**1.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.8**	**4.5**	**cis-1,2-Dichloroethene** **trans-1,2-Dichloroethene**	**0.3 J** **0.4 J**
MW-10	Oct 2016	MW-10	0.5 U	**7.7**	**1.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.7**	**3.7 J**	**cis-1,2-Dichloroethene** **trans-1,2-Dichloroethene**	**0.4 J** **0.3 J**
MW-10	Jan/Feb 2017	MW-10	0.5 U	**9.4**	**1.2**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.9**	**2.9**	**cis-1,2-Dichloroethene** **trans-1,2-Dichloroethene**	**0.4 J** **0.5 J**
MW-10	Jan/Feb 2017	DUP-5-1Q17	0.5 U	**8.8**	**1.1**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.9**	**2.2**	**cis-1,2-Dichloroethene** **trans-1,2-Dichloroethene**	**0.5 J** **0.5**
MW-10	Apr/May 2017	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.6 J**		
MW-10	Jul/Aug 2017	MW-10	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.0 J**		
MW-11-Screen-1													
MW-11-Screen-1	Jul/Aug 2016	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0 J**		
MW-11-Screen-1	Jul/Aug 2016	DUP-2-3Q16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acetone**	**9.5 J**
MW-11-Screen-1	Oct 2016	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-1	Jan/Feb 2017	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ	**Styrene**	**0.2 J**
MW-11-Screen-1	Apr/May 2017	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-1	Jul/Aug 2017	MW-11-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-11-Screen-2													
MW-11-Screen-2	Jul/Aug 2016	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acetone**	**11.0**
MW-11-Screen-2	Oct 2016	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2	Jan/Feb 2017	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ		
MW-11-Screen-2	Apr/May 2017	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-2	Jul/Aug 2017	MW-11-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-11-Screen-2	Jul/Aug 2017	DUP-5-3Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-3													
MW-11-Screen-3	Jul/Aug 2016	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	4.0 U	**Styrene**	**0.2 J**
MW-11-Screen-3	Oct 2016	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	4.0 U	**Styrene**	**0.1 J**
MW-11-Screen-3	Jan/Feb 2017	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ	**Styrene**	**0.1 J**
MW-11-Screen-3	Apr/May 2017	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Toluene** **Vinyl Chloride** **Styrene** **Methyl-tert-butyl ether (MTBE)** **Ethylbenzene**	**0.3 J** **0.4 J** **0.8** **0.3 J** **0.2 J**
MW-11-Screen-3	Jul/Aug 2017	MW-11-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.1 J**
MW-11-Screen-4													
MW-11-Screen-4	Jul/Aug 2016	MW-11-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.1 J**
MW-11-Screen-4	Oct 2016	MW-11-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-4	Oct 2016	DUP-4-4Q16	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.1 J**
MW-11-Screen-4	Jan/Feb 2017	MW-11-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ	**Styrene**	**0.1 J**
MW-11-Screen-4	Apr/May 2017	MW-11-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.2 J**
MW-11-Screen-4	Jul/Aug 2017	MW-11-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9 J**		
MW-11-Screen-5													
MW-11-Screen-5	Oct 2016	MW-11-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-11-Screen-5	Apr/May 2017	MW-11-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-1													
MW-12-Screen-1	Apr/May 2017	MW-12-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-1	Jul/Aug 2017	MW-12-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-2													
MW-12-Screen-2	Jul/Aug 2016	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-2	Oct 2016	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-2	Jan/Feb 2017	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-12-Screen-2	Apr/May 2017	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-2	Jul/Aug 2017	MW-12-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-12-Screen-3													
MW-12-Screen-3	Jul/Aug 2016	MW-12-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	4.0 U		
MW-12-Screen-3	Oct 2016	MW-12-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	4.0 U		
MW-12-Screen-3	Jan/Feb 2017	MW-12-3	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	2.0 UJ		
MW-12-Screen-3	Jan/Feb 2017	DUP-7-1Q17	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	2.0 UJ		
MW-12-Screen-3	Apr/May 2017	MW-12-3	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**4.2**		
MW-12-Screen-3	Jul/Aug 2017	MW-12-3	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**	**3.2 J**		
MW-12-Screen-3	Jul/Aug 2017	DUP-4-3Q17	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**2.9 J**		
MW-12-Screen-4													
MW-12-Screen-4	Jul/Aug 2016	MW-12-4	**0.6**	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.7 J**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-12-Screen-4	Oct 2016	MW-12-4	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.8 J**		
MW-12-Screen-4	Jan/Feb 2017	MW-12-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.4 J**		
MW-12-Screen-4	Apr/May 2017	MW-12-4	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.2 J**		
MW-12-Screen-4	Jul/Aug 2017	MW-12-4	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.6 J**		
MW-12-Screen-5													
MW-12-Screen-5	Jul/Aug 2016	MW-12-5	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.1 J**		
MW-12-Screen-5	Oct 2016	MW-12-5	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**2.6 J**		
MW-12-Screen-5	Jan/Feb 2017	MW-12-5	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.3 J**		
MW-12-Screen-5	Apr/May 2017	MW-12-5	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**1.8 J**		
MW-12-Screen-5	Jul/Aug 2017	MW-12-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**2.7 J**		
MW-13													
MW-13	Apr/May 2017	MW-13	**0.2 J**	**0.4 J**	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.5**	**160.0**	**1,4-Dioxane**	**3.7**
MW-13	Jul/Aug 2017	MW-13	**0.3 J**	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**2.9**	**220.0**		
MW-13	Jul/Aug 2017	DUP-6-3Q17	**0.3 J**	**0.3 J**	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**2.8**	**230.0**		
MW-14-Screen-1													
MW-14-Screen-1	Apr/May 2017	MW-14-1	0.5 U	**1.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.6 J**		
MW-14-Screen-1	Jul/Aug 2017	MW-14-1	0.5 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**2.7 J**		
MW-14-Screen-2													
MW-14-Screen-2	Jul/Aug 2016	MW-14-2	0.5 U	**2.2**	**0.5 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5**	**5.0**	**cis-1,2-Dichloroethene** **Acetone**	**0.2 J** **9.7 J**
MW-14-Screen-2	Oct 2016	MW-14-2	0.5 U	**2.0**	**0.5 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**4.9**		
MW-14-Screen-2	Jan/Feb 2017	MW-14-2	0.5 U	**1.6**	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	**5.1**	**cis-1,2-Dichloroethene**	**0.2 J**
MW-14-Screen-2	Apr/May 2017	MW-14-2	0.5 U	**1.4**	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5**	**4.8**		
MW-14-Screen-2	Apr/May 2017	DUP-8-2Q17	0.5 U	**1.4**	**0.4 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**3.8 J**		
MW-14-Screen-2	Jul/Aug 2017	MW-14-2	0.5 U	**1.7**	**0.4 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**3.0 J**		
MW-14-Screen-3													
MW-14-Screen-3	Jul/Aug 2016	MW-14-3	0.5 U	**1.5**	**0.9**	**0.4 J**	0.5 U	0.5 U	0.5 U	**0.6**	**6.5**	**1,3-Dichlorobenzene** **cis-1,2-Dichloroethene** **Acetone**	**0.1 J** **0.2 J** **6.5 J**
MW-14-Screen-3	Oct 2016	MW-14-3	0.5 U	**1.1**	**0.4 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**5.9**		
MW-14-Screen-3	Jan/Feb 2017	MW-14-3	0.5 U	**0.8**	**0.5**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**6.3**		
MW-14-Screen-3	Apr/May 2017	MW-14-3	0.5 U	**1.1**	**0.6**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**5.0**		
MW-14-Screen-3	Jul/Aug 2017	MW-14-3	0.5 U	**0.9**	**0.4 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**3.9 J**		
MW-14-Screen-3	Jul/Aug 2017	DUP-2-3Q17	0.5 U	**1.0**	**0.4 J**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**4.7**		
MW-14-Screen-4													
MW-14-Screen-4	Jul/Aug 2016	MW-14-4	0.5 U	**0.6**	**0.5**	0.3 J	0.5 U	0.5 U	0.5 U	**0.4 J**	**5.0**	**1,3-Dichlorobenzene**	**0.2 J**
MW-14-Screen-4	Oct 2016	MW-14-4	0.5 U	**0.3 J**	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.2 J**	**5.1**		
MW-14-Screen-4	Jan/Feb 2017	MW-14-4	0.5 U	**0.2 J**	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.2 J**	2.0 U		
MW-14-Screen-4	Apr/May 2017	MW-14-4	0.5 U	**0.4 J**	**0.5**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.7 J**		
MW-14-Screen-4	Jul/Aug 2017	MW-14-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**3.8 J**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-14-Screen-5													
MW-14-Screen-5	Jul/Aug 2016	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	4.0 U	**Acetone**	**9.8 J**
MW-14-Screen-5	Oct 2016	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-14-Screen-5	Jan/Feb 2017	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	2.0 U		
MW-14-Screen-5	Apr/May 2017	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	4.0 U		
MW-14-Screen-5	Jul/Aug 2017	MW-14-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-15													
MW-15	Oct 2016	MW-15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-15	Apr/May 2017	MW-15	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-15	Apr/May 2017	DUP-5-2Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0 J**		
MW-16													
MW-16	Apr/May 2017	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.4**	**3.8 J**	**Bromodichloromethane** **Bromoform** **Dibromochloromethane** **1,4-Dioxane**	**4.2** **1.3** **1.9** **0.9 J**
MW-16	Jul/Aug 2017	MW-16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.1**	4.0 U	**Dibromochloromethane** **Bromodichloromethane**	**1.6** **3.8**
MW-17-Screen-1													
MW-17-Screen-1	Apr/May 2017	MW-17-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-17-Screen-2													
MW-17-Screen-2	Jul/Aug 2016	MW-17-2	0.5 U	**0.7**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**1.4 J**		
MW-17-Screen-2	Oct 2016	MW-17-2	0.5 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	4.0 U		
MW-17-Screen-2	Oct 2016	DUP-1-4Q16	0.5 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	4.0 U		
MW-17-Screen-2	Jan/Feb 2017	MW-17-2	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-17-Screen-2	Apr/May 2017	MW-17-2	0.5 U	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	4.0 U		
MW-17-Screen-2	Jul/Aug 2017	MW-17-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-17-Screen-3													
MW-17-Screen-3	Jul/Aug 2016	MW-17-3	0.5 U	**1.5**	**0.5 J**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**6.1**		
MW-17-Screen-3	Oct 2016	MW-17-3	0.5 U	**1.3**	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.3 J**	**6.1**		
MW-17-Screen-3	Jan/Feb 2017	MW-17-3	0.5 U	**1.5**	**0.4 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.3 J**	**6.2**		
MW-17-Screen-3	Apr/May 2017	MW-17-3	0.5 U	**1.1**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**5.3**		
MW-17-Screen-3	Jul/Aug 2017	MW-17-3	0.5 U	**1.4**	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.3 J**	**5.6**		
MW-17-Screen-4													
MW-17-Screen-4	Jul/Aug 2016	MW-17-4	0.5 U	**1.9**	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**1.5 J**		
MW-17-Screen-4	Oct 2016	MW-17-4	0.5 U	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**1.8 J**		
MW-17-Screen-4	Jan/Feb 2017	MW-17-4	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	2.0 U		
MW-17-Screen-4	Apr/May 2017	MW-17-4	0.5 U	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0 J**	**1,4-Dioxane**	**46.0**
MW-17-Screen-4	Jul/Aug 2017	MW-17-4	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.1 J**	**0.9 J**		
MW-17-Screen-5													
MW-17-Screen-5	Oct 2016	MW-17-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-17-Screen-5	Apr/May 2017	MW-17-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-1													
MW-18-Screen-1	Apr/May 2017	MW-18-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-18-Screen-2													
MW-18-Screen-2	Jul/Aug 2016	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Oct 2016	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Jan/Feb 2017	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ		
MW-18-Screen-2	Apr/May 2017	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-2	Jul/Aug 2017	MW-18-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-3													
MW-18-Screen-3	Jul/Aug 2016	MW-18-3	**1.2**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**7.2**		
MW-18-Screen-3	Oct 2016	MW-18-3	**1.9**	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**6.8**		
MW-18-Screen-3	Oct 2016	DUP-2-4Q16	**1.9**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**5.7**		
MW-18-Screen-3	Jan/Feb 2017	MW-18-3	**0.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**6.2 J**		
MW-18-Screen-3	Apr/May 2017	MW-18-3	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**6.2**		
MW-18-Screen-3	Jul/Aug 2017	MW-18-3	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**4.3**		
MW-18-Screen-4													
MW-18-Screen-4	Jul/Aug 2016	MW-18-4	**1.9**	**0.9**	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**	**16.0**		
MW-18-Screen-4	Oct 2016	MW-18-4	**2.6**	**0.9**	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**15.0**		
MW-18-Screen-4	Jan/Feb 2017	MW-18-4	**1.1**	**0.8**	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**15.0 J**		
MW-18-Screen-4	Apr/May 2017	MW-18-4	**3.5**	**1.1**	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	**17.0**		
MW-18-Screen-4	Jul/Aug 2017	MW-18-4	**1.2**	**0.7**	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.5**	**14.0**		
MW-18-Screen-5													
MW-18-Screen-5	Jul/Aug 2016	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-5	Oct 2016	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-18-Screen-5	Jan/Feb 2017	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 UJ		
MW-18-Screen-5	Apr/May 2017	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Methyl-tert-butyl ether (MTBE)** **Ethylbenzene** **Styrene** **Vinyl Chloride** **Acrylonitrile** **Benzene**	**1.0** **0.2 J** **2.3** **0.3 J** **19.0** **0.3 J**
MW-18-Screen-5	Jul/Aug 2017	MW-18-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-19-Screen-1													
MW-19-Screen-1	Jul/Aug 2016	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.7**	**0.8 J**		
MW-19-Screen-1	Oct 2016	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.3**	**1.0 J**		
MW-19-Screen-1	Jan/Feb 2017	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.1**	2.0 U		
MW-19-Screen-1	Apr/May 2017	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.7**	**0.7 J**		
MW-19-Screen-1	Jul/Aug 2017	MW-19-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.6**	4.0 U		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-19-Screen-2													
MW-19-Screen-2	Jul/Aug 2016	MW-19-2	0.5 U	**1.6**	**1.6**	**0.2 J**	0.5 U	0.5 U	0.5 U	**2.2**	**4.6**	**cis-1,2-Dichloroethene**	**0.3 J**
MW-19-Screen-2	Oct 2016	MW-19-2	0.5 U	**1.0**	**0.9**	**0.1 J**	0.5 U	0.5 U	0.5 U	**1.6**	**4.6**	**cis-1,2-Dichloroethene**	**0.2 J**
MW-19-Screen-2	Jan/Feb 2017	MW-19-2	0.5 U	**1.5**	**1.9**	0.5 U	0.5 U	0.5 U	0.5 U	**2.3**	**3.3**	**cis-1,2-Dichloroethene**	**0.3 J**
MW-19-Screen-2	Apr/May 2017	MW-19-2	0.5 U	**1.3**	**1.7**	**0.2 J**	0.5 U	0.5 U	0.5 U	**2.9**	**3.6 J**	**cis-1,2-Dichloroethene**	**0.4 J**
MW-19-Screen-2	Jul/Aug 2017	MW-19-2	0.5 U	**1.3**	**2.5**	**0.2 J**	0.5 U	0.5 U	0.5 U	**2.7**	**2.6 J**	**cis-1,2-Dichloroethene**	**0.4 J**
MW-19-Screen-3													
MW-19-Screen-3	Jul/Aug 2016	MW-19-3	0.5 U	**0.5 J**	1.0	**0.2 J**	0.5 U	0.5 U	0.5 U	**1.4**	**4.2**	**Bromodichloromethane** **cis-1,2-Dichloroethene**	**0.2 J** **0.2 J**
MW-19-Screen-3	Oct 2016	MW-19-3	0.5 U	**0.2 J**	**0.4 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.7**	**4.3**		
MW-19-Screen-3	Jan/Feb 2017	MW-19-3	0.5 U	**0.2 J**	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**4.5**		
MW-19-Screen-3	Apr/May 2017	MW-19-3	0.5 U	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.5**	**4.3**		
MW-19-Screen-3	Jul/Aug 2017	MW-19-3	0.5 U	**0.2 J**	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	**3.6 J**		
MW-19-Screen-4													
MW-19-Screen-4	Jul/Aug 2016	MW-19-4	0.5 U	0.5 U	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**3.3 J**		
MW-19-Screen-4	Oct 2016	MW-19-4	0.5 U	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.2 J**		
MW-19-Screen-4	Oct 2016	DUP-6-4Q16	0.5 U	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.6 J**		
MW-19-Screen-4	Jan/Feb 2017	MW-19-4	0.5 U	0.5 U	**0.5**	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**4.0**		
MW-19-Screen-4	Jan/Feb 2017	DUP-1-1Q17	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.7**		
MW-19-Screen-4	Apr/May 2017	MW-19-4	0.5 U	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.4 J**		
MW-19-Screen-4	Jul/Aug 2017	MW-19-4	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**2.9 J**		
MW-19-Screen-5													
MW-19-Screen-5	Jul/Aug 2016	MW-19-5	0.5 U	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.5**	**5.8**		
MW-19-Screen-5	Oct 2016	MW-19-5	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	**2.4 J**		
MW-19-Screen-5	Jan/Feb 2017	MW-19-5	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.8**	**2.2**		
MW-19-Screen-5	Apr/May 2017	MW-19-5	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.8**	**2.2 J**		
MW-19-Screen-5	Jul/Aug 2017	MW-19-5	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.8**	**1.7 J**		
MW-20-Screen-1													
MW-20-Screen-1	Jul/Aug 2017	MW-20-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-2													
MW-20-Screen-2	Jul/Aug 2016	MW-20-2	0.5 U	**1.2**	**0.3 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**4.6**		
MW-20-Screen-2	Oct 2016	MW-20-2	0.5 U	**1.0**	**0.2 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.3 J**	**4.5**		
MW-20-Screen-2	Jan/Feb 2017	MW-20-2	0.5 U	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	2.0 U		
MW-20-Screen-2	Apr/May 2017	MW-20-2	0.5 U	**2.3**	**0.5 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5**	**2.6 J**	**Acetone**	**22.0**
MW-20-Screen-2	Jul/Aug 2017	MW-20-2	0.5 U	**0.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.9 J**		
MW-20-Screen-3													
MW-20-Screen-3	Jul/Aug 2016	MW-20-3	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene** **Acrylonitrile**	**0.3 J** **2.4 J**
MW-20-Screen-3	Oct 2016	MW-20-3	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.3 J**

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-20-Screen-3	Jan/Feb 2017	MW-20-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U	**Styrene** **Acrylonitrile**	**0.2 J** **2.2 J**
MW-20-Screen-3	Apr/May 2017	MW-20-3	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acrylonitrile** **Styrene**	**2.2 J** **0.4 J**
MW-20-Screen-3	Apr/May 2017	DUP-2-2Q17	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acrylonitrile** **Styrene**	**1.7 J** **0.4 J**
MW-20-Screen-3	Jul/Aug 2017	MW-20-3	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acrylonitrile** **Styrene**	**1.8 J** **0.3 J**
MW-20-Screen-3	Jul/Aug 2017	DUP-1-3Q17	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Acrylonitrile** **Styrene**	**1.6 J** **0.4 J**
MW-20-Screen-4													
MW-20-Screen-4	Jul/Aug 2016	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Oct 2016	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Jan/Feb 2017	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-20-Screen-4	Apr/May 2017	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-4	Jul/Aug 2017	MW-20-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-20-Screen-5													
MW-20-Screen-5	Jul/Aug 2016	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Carbon disulfide** **Styrene**	**0.7 J** **0.2 J**
MW-20-Screen-5	Jul/Aug 2016	DUP-1-3Q16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Carbon disulfide** **Styrene**	**0.5 J** **0.3 J**
MW-20-Screen-5	Oct 2016	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.3 J**
MW-20-Screen-5	Jan/Feb 2017	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U	**Styrene**	**0.2 J**
MW-20-Screen-5	Apr/May 2017	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.2 J**
MW-20-Screen-5	Jul/Aug 2017	MW-20-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.3 J**
MW-21-Screen-1													
MW-21-Screen-1	Apr/May 2017	MW-21-1	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**6.5**		
MW-21-Screen-1	Jul/Aug 2017	MW-21-1	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**7.7**		
MW-21-Screen-2													
MW-21-Screen-2	Jul/Aug 2016	MW-21-2	0.5 U	**0.3 J**	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.2 J**	**Acetone**	**8.7 J**
MW-21-Screen-2	Oct 2016	MW-21-2	0.5 U	**0.3 J**	**0.7**	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**2.2 J**		
MW-21-Screen-2	Jan/Feb 2017	MW-21-2	0.5 U	**0.2 J**	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**2.6**		
MW-21-Screen-2	Apr/May 2017	MW-21-2	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**1.8 J**		
MW-21-Screen-2	Jul/Aug 2017	MW-21-2	0.5 U	0.5 U	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**1.1 J**		
MW-21-Screen-3													
MW-21-Screen-3	Jul/Aug 2016	MW-21-3	0.5 U	**1.5**	**1.6**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.6**	**4.9**	**Methyl-tert-butyl ether (MTBE)** **cis-1,2-Dichloroethene**	**0.2 J** **0.2 J**
MW-21-Screen-3	Oct 2016	MW-21-3	0.5 U	**0.9**	**0.9**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.6 J**		
MW-21-Screen-3	Jan/Feb 2017	MW-21-3	0.5 U	**0.7**	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.4**		
MW-21-Screen-3	Jan/Feb 2017	DUP-3-1Q17	0.5 U	**1.0**	**1.4**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.6**	**3.5**	**cis-1,2-Dichloroethene**	**0.2 J**

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-21-Screen-3	Apr/May 2017	MW-21-3	0.5 U	**1.0**	**0.9**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**4.0**		
MW-21-Screen-3	Jul/Aug 2017	MW-21-3	0.5 U	**1.1**	**1.1**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**3.0 J**		
MW-21-Screen-4													
MW-21-Screen-4	Jul/Aug 2016	MW-21-4	0.5 U	**0.2 J**	**1.1**	**0.1 J**	0.5 U	0.5 U	0.5 U	**7.2**	**2.6 J**	**cis-1,2-Dichloroethene**	**0.2 J**
MW-21-Screen-4	Jul/Aug 2016	DUP-7-3Q16	0.5 U	**0.2 J**	**1.2**	**0.1 J**	0.5 U	0.5 U	0.5 U	**7.1**	**3.1 J**		
MW-21-Screen-4	Oct 2016	MW-21-4	0.5 U	**0.6**	**2.0**	**0.1 J**	0.5 U	0.5 U	0.5 U	**8.8**	**3.1 J**	**cis-1,2-Dichloroethene**	**0.2 J**
MW-21-Screen-4	Jan/Feb 2017	MW-21-4	0.5 U	**0.1 J**	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**4.4**	2.0 U		
MW-21-Screen-4	Apr/May 2017	MW-21-4	0.5 U	**0.6**	**2.6**	**0.2 J**	0.5 U	0.5 U	0.5 U	**11.0**	**2.4 J**	**cis-1,2-Dichloroethene**	**0.4 J**
MW-21-Screen-4	Apr/May 2017	DUP-6-2Q17	0.5 U	**0.5 J**	**2.8**	**0.2 J**	0.5 U	0.5 U	0.5 U	**11.0**	**2.6 J**	**cis-1,2-Dichloroethene**	**0.4 J**
MW-21-Screen-4	Jul/Aug 2017	MW-21-4	0.5 U	**0.3 J**	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U	**5.6**	**2.3 J**		
MW-21-Screen-5													
MW-21-Screen-5	Jul/Aug 2016	MW-21-5	0.5 U	**0.2 J**	**1.0**	**0.1 J**	0.5 U	0.5 U	0.5 U	**7.8**	**2.7 J**		
MW-21-Screen-5	Oct 2016	MW-21-5	0.5 U	**0.2 J**	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**4.6**	**3.0 J**		
MW-21-Screen-5	Jan/Feb 2017	MW-21-5	0.5 U	**0.1 J**	**0.9**	0.5 U	0.5 U	0.5 U	0.5 U	**6.9**	2.0 U		
MW-21-Screen-5	Apr/May 2017	MW-21-5	0.5 U	**0.4 J**	**2.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	**11.0**	**2.6 J**		
MW-21-Screen-5	Jul/Aug 2017	MW-21-5	0.5 U	0.5 U	**1.0**	0.5 U	0.5 U	0.5 U	0.5 U	**5.9**	**2.3 J**		
MW-22-Screen-1													
MW-22-Screen-1	Jul/Aug 2016	MW-22-1	0.5 U	**1.2**	**0.3 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.5 J**		
MW-22-Screen-1	Oct 2016	MW-22-1	0.5 U	**1.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.5 J**		
MW-22-Screen-1	Jan/Feb 2017	MW-22-1	0.5 U	**1.0**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.4**		
MW-22-Screen-1	Apr/May 2017	MW-22-1	0.5 U	**1.3**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.4 J**		
MW-22-Screen-1	Jul/Aug 2017	MW-22-1	0.5 U	**0.7**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**5.6**		
MW-22-Screen-2													
MW-22-Screen-2	Jul/Aug 2016	MW-22-2	0.5 U	0.5 U	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	**3.5 J**		
MW-22-Screen-2	Oct 2016	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.2 J**		
MW-22-Screen-2	Jan/Feb 2017	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.0**		
MW-22-Screen-2	Apr/May 2017	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.4 J**		
MW-22-Screen-2	Apr/May 2017	DUP-3-2Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.3 J**		
MW-22-Screen-2	Jul/Aug 2017	MW-22-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**4.3**		
MW-22-Screen-3													
MW-22-Screen-3	Jul/Aug 2016	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.4 J**		
MW-22-Screen-3	Oct 2016	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.7 J**		
MW-22-Screen-3	Oct 2016	DUP-3-4Q16	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.7 J**		
MW-22-Screen-3	Jan/Feb 2017	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.0**		
MW-22-Screen-3	Apr/May 2017	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.2 J**		
MW-22-Screen-3	Jul/Aug 2017	MW-22-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.3 J**		
MW-22-Screen-4													
MW-22-Screen-4	Oct 2016	MW-22-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.3 J**		
MW-22-Screen-4	Apr/May 2017	MW-22-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.0 J**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-22-Screen-5													
MW-22-Screen-5	Oct 2016	MW-22-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Carbon disulfide**	**0.5 J**
MW-22-Screen-5	Apr/May 2017	MW-22-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-23-Screen-1													
MW-23-Screen-1	Jul/Aug 2016	MW-23-1	0.5 U	**2.3**	**0.3 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.5**	**4.6**		
MW-23-Screen-1	Jul/Aug 2016	DUP-6-3Q16	0.5 U	**2.3**	**0.3 J**	**0.1 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**3.9 J**		
MW-23-Screen-1	Oct 2016	MW-23-1	0.5 U	**1.3**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**3.8 J**		
MW-23-Screen-1	Jan/Feb 2017	MW-23-1	0.5 U	**1.4**	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**2.6**		
MW-23-Screen-1	Apr/May 2017	MW-23-1	0.5 U	**5.3**	**0.8**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.7**	**2.9 J**		
MW-23-Screen-1	Jul/Aug 2017	MW-23-1	0.5 U	**1.5**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**3.9 J**		
MW-23-Screen-2													
MW-23-Screen-2	Jul/Aug 2016	MW-23-2	0.5 U	**1.3**	**0.4 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.5 J**	**4.6**		
MW-23-Screen-2	Oct 2016	MW-23-2	0.5 U	**1.2**	**0.3 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.4 J**	**5.4**		
MW-23-Screen-2	Jan/Feb 2017	MW-23-2	0.5 U	**3.2**	**0.9**	**0.4 J**	0.5 U	0.5 U	0.5 U	**0.8**	**3.2**		
MW-23-Screen-2	Apr/May 2017	MW-23-2	0.5 U	**4.4**	**1.3**	**0.4 J**	0.5 U	0.5 U	0.5 U	**0.8**	**3.6 J**		
MW-23-Screen-2	Jul/Aug 2017	MW-23-2	0.5 U	**4.0**	**0.9**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.8**	**3.9 J**		
MW-23-Screen-2	Jul/Aug 2017	DUP-3-3Q17	0.5 U	**4.1**	**0.8**	**0.3 J**	0.5 U	0.5 U	0.5 U	**0.9**	**4.7**		
MW-23-Screen-3													
MW-23-Screen-3	Jul/Aug 2016	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.3 J**		
MW-23-Screen-3	Oct 2016	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.2 J**		
MW-23-Screen-3	Jan/Feb 2017	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**3.4**		
MW-23-Screen-3	Apr/May 2017	MW-23-3	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.2 J**	**3.0 J**		
MW-23-Screen-3	Jul/Aug 2017	MW-23-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.7 J**		
MW-23-Screen-4													
MW-23-Screen-4	Oct 2016	MW-23-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0 J**		
MW-23-Screen-4	Apr/May 2017	MW-23-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9 J**		
MW-23-Screen-4	Apr/May 2017	DUP-7-2Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.7 J**		
MW-23-Screen-5													
MW-23-Screen-5	Oct 2016	MW-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.3 J**
MW-23-Screen-5	Apr/May 2017	MW-23-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Styrene**	**0.4 J**
MW-24-Screen-1													
MW-24-Screen-1	Jul/Aug 2016	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**	**26.0**		
MW-24-Screen-1	Oct 2016	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**30.0**		
MW-24-Screen-1	Jan/Feb 2017	MW-24-1	**0.2 J**	0.5 U	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.4**	**2000.0**		
MW-24-Screen-1	Apr/May 2017	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.4**	**58.0**		
MW-24-Screen-1	Jul/Aug 2017	MW-24-1	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**1.0**	**12.0**		
MW-24-Screen-2													
MW-24-Screen-2	Jul/Aug 2016	MW-24-2	0.5 U	0.5 U	**0.2 J**	**0.2 J**	**0.1 J**	0.5 U	0.5 U	**0.2 J**	**2.6 J**	**Bromodichloromethane**	**0.2 J**
MW-24-Screen-2	Oct 2016	MW-24-2	0.5 U	0.5 U	**0.2 J**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.2 J**	**2.6 J**		
MW-24-Screen-2	Jan/Feb 2017	MW-24-2	0.5 U	0.5 U	0.5 U	**0.1 J**	0.3 J	0.5 U	0.5 U	0.5 U	**1.4 J**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-24-Screen-2	Apr/May 2017	MW-24-2	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	**1.9 J**		
MW-24-Screen-2	Jul/Aug 2017	MW-24-2	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.2 J**	**1.9 J**		
MW-24-Screen-3													
MW-24-Screen-3	Jul/Aug 2016	MW-24-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-24-Screen-3	Oct 2016	MW-24-3	0.5 U	0.5 U	0.5 U	**0.1 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-24-Screen-3	Jan/Feb 2017	MW-24-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	2.0 U		
MW-24-Screen-3	Apr/May 2017	MW-24-3	0.5 U	0.5 U	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-24-Screen-3	Jul/Aug 2017	MW-24-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-24-Screen-4													
MW-24-Screen-4	Oct 2016	MW-24-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-24-Screen-4	Apr/May 2017	MW-24-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.2 J**	**Ethylbenzene** **Styrene**	**0.2 J** **0.3 J**
MW-24-Screen-5													
MW-24-Screen-5	Oct 2016	MW-24-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-24-Screen-5	Apr/May 2017	MW-24-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-25-Screen-1													
MW-25-Screen-1	Oct 2016	MW-25-1	0.5 U	**0.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**8.8**	**Methyl-tert-butyl ether (MTBE)**	**0.4 J**
MW-25-Screen-1	Jan/Feb 2017	MW-25-1	0.5 U	**1.2**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.6**	**9.6**	**Methyl-tert-butyl ether (MTBE)**	**0.5 J**
MW-25-Screen-1	Apr/May 2017	MW-25-1	0.5 U	**1.7**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.8**	**8.8**	**Methyl-tert-butyl ether (MTBE)**	**0.5 J**
MW-25-Screen-1	Jul/Aug 2017	MW-25-1	0.5 U	**1.8**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.9**	**7.2**	**Methyl-tert-butyl ether (MTBE)**	**0.5 J**
MW-25-Screen-2													
MW-25-Screen-2	Oct 2016	MW-25-2	0.5 U	**0.2 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.1 J**	**13.0**		
MW-25-Screen-2	Jan/Feb 2017	MW-25-2	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**14.0**		
MW-25-Screen-2	Apr/May 2017	MW-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**13.0**		
MW-25-Screen-2	Apr/May 2017	DUP-1-2Q17	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**12.0**		
MW-25-Screen-2	Jul/Aug 2017	MW-25-2	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**12.0**		
MW-25-Screen-3													
MW-25-Screen-3	Oct 2016	MW-25-3	0.5 U	0.5 U	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.7**	**11.0**		
MW-25-Screen-3	Jan/Feb 2017	MW-25-3	0.5 U	0.5 U	**0.5 J**	0.5 U	0.5 U	0.5 U	0.5 U	**0.9**	**11.0**		
MW-25-Screen-3	Apr/May 2017	MW-25-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.4 J**	**9.2**		
MW-25-Screen-3	Jul/Aug 2017	MW-25-3	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**8.4**		
MW-25-Screen-4													
MW-25-Screen-4	Oct 2016	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**8.7**		
MW-25-Screen-4	Jan/Feb 2017	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**9.0**		
MW-25-Screen-4	Apr/May 2017	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**8.2**		
MW-25-Screen-4	Jul/Aug 2017	MW-25-4	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**7.5**		
MW-25-Screen-5													
MW-25-Screen-5	Oct 2016	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U	**Benzene** **Vinyl Chloride**	**0.1 J** **0.5**
MW-25-Screen-5	Jan/Feb 2017	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.0**		

Sample Location	Sampling Event	Sample Number	Carbon tetrachloride	TCE	PCE	1,1-DCA	1,2-DCA	1,1-DCE	Freon 113	Chloroform	Perchlorate	Other Volatile Organic Compounds and 1,4-Dioxane, NDMA, NDPA, 1,2,3-TCP	
MW-25-Screen-5	Apr/May 2017	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-25-Screen-5	Jul/Aug 2017	MW-25-5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	4.0 U		
MW-26-Screen-1													
MW-26-Screen-1	Jul/Aug 2016	MW-26-1	0.5 U	**0.2 J**	**0.6**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**1.7 J**		
MW-26-Screen-1	Oct 2016	MW-26-1	0.5 U	**0.2 J**	**0.3 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U	**2.2 J**		
MW-26-Screen-1	Jan/Feb 2017	MW-26-1	0.5 U	**0.2 J**	**0.4 J**	0.5 U	0.5 U	0.5 U	0.5 U	0.2 J	**2.1**		
MW-26-Screen-1	Apr/May 2017	MW-26-1	0.5 U	**1.1**	**3.4**	**0.2 J**	0.5 U	0.5 U	0.5 U	**1.0**	**1.9 J**	**cis-1,2-Dichloroethene**	**0.3 J**
MW-26-Screen-1	Apr/May 2017	DUP-4-2Q17	0.5 U	**1.2**	**3.8**	**0.2 J**	0.5 U	0.5 U	0.5 U	**0.9**	**3.0 J**	**cis-1,2-Dichloroethene**	**0.3 J**
MW-26-Screen-1	Jul/Aug 2017	MW-26-1	0.5 U	**0.2 J**	**0.7**	0.5 U	0.5 U	0.5 U	0.5 U	**0.3 J**	**2.4 J**		
MW-26-Screen-2													
MW-26-Screen-2	Jul/Aug 2016	MW-26-2	0.5 U	**0.6**	**7.1**	**0.2 J**	0.5 U	0.5 U	0.5 U	**2.3**	**3.8 J**	**cis-1,2-Dichloroethene** **Bromodichloromethane**	**0.4 J** **0.2 J**
MW-26-Screen-2	Jul/Aug 2016	DUP-3-3Q16	0.5 U	**0.8**	**6.8**	**0.2 J**	0.5 U	0.5 U	0.5 U	**2.2**	**2.9 J**	**cis-1,2-Dichloroethene** **Bromodichloromethane**	**0.4 J** **0.2 J**
MW-26-Screen-2	Oct 2016	MW-26-2	0.5 U	**0.4 J**	**2.7**	**0.1 J**	0.5 U	0.5 U	0.5 U	**2.0**	**3.7 J**	**cis-1,2-Dichloroethene** **Bromodichloromethane**	**0.3 J** **0.3 J**
MW-26-Screen-2	Jan/Feb 2017	MW-26-2	0.5 U	**0.3 J**	**2.7**	0.5 U	0.5 U	0.5 U	0.5 U	**1.6**	**2.9**	**cis-1,2-Dichloroethene**	**0.3 J**
MW-26-Screen-2	Apr/May 2017	MW-26-2	0.5 U	**0.3 J**	**2.4**	0.5 U	0.5 U	0.5 U	0.5 U	**1.7**	**3.2 J**	**Bromodichloromethane**	**0.2 J**
MW-26-Screen-2	Jul/Aug 2017	MW-26-2	0.5 U	**0.3 J**	**1.8**	0.5 U	0.5 U	0.5 U	0.5 U	**1.3**	**3.9 J**		
Analyte concentration exceeds the standard for:													
CA MCL			0.5	5.0	5.0	5.0	0.5	6.0	1200.0	TTHM	6.0		
EPA REGION IX MCL			5.0	5.0	5.0	NE	5.0	7.0	NE	TTHM	NE		

Notes

DUP(E)	Field Duplicate
NA	Not analyzed
NE	Not established
TTHM	Chloroform is regulated under the state and federal MCL of 80 µg/L for Total Trihalomethanes (TTHMs); the MCL applies to the sum of all four THMs (Bromodichloromethane, Bromoform, Dibromochloromethane, and Chloroform) as an annual average
J	Analyte concentration is an estimated value
U	Analyte was analyzed for but not detected at or above the stated limit
UJ	Analyte was analyzed for but not detected; analyte concentration is an estimated value

TABLE 2

SUMMARY OF METALS DETECTED DURING THE LAST FIVE

SAMPLING EVENTS OF THE LONG-TERM QUARTERLY GROUNDWATER SAMPLING PROGRAM

(Shaded values exceed State or Federal MCLs or action levels.)

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-1						
MW-1	Oct 2016	MW-1	NA	NA	**0.9 J**	2.0 U
MW-1	Apr/May 2017	MW-1	2.0 U	1.0 U	3.0 UJ	**0.8 J**
MW-3-Screen-1						
MW-3-Screen-1	Oct 2016	MW-3-1	NA	NA	3.0 U	2.0 U
MW-3-Screen-1	Apr/May 2017	MW-3-1	2.0 U	1.0 U	**0.8 J**	2.0 U
MW-3-Screen-2						
MW-3-Screen-2	Jul/Aug 2016	MW-3-2	NA	NA	**1.8 J**	**1.0 J**
MW-3-Screen-2	Oct 2016	MW-3-2	NA	NA	**1.0 J**	**1.0 J**
MW-3-Screen-2	Jan/Feb 2017	MW-3-2	NA	NA	2.9 U	**0.8 J**
MW-3-Screen-2	Apr/May 2017	MW-3-2	2.0 U	1.0 U	**1.3 J**	2.0 U
MW-3-Screen-2	Jul/Aug 2017	MW-3-2	NA	NA	3.0 U	2.0 U
MW-3-Screen-3						
MW-3-Screen-3	Jul/Aug 2016	MW-3-3	NA	NA	**3.2**	**1.0 J**
MW-3-Screen-3	Oct 2016	MW-3-3	NA	NA	**3.1**	**1.1 J**
MW-3-Screen-3	Jan/Feb 2017	MW-3-3	NA	NA	**3.6**	2.0 U
MW-3-Screen-3	Apr/May 2017	MW-3-3	**3.8**	1.0 U	**4.8**	2.0 U
MW-3-Screen-3	Jul/Aug 2017	MW-3-3	NA	NA	2.4 U	**1.3 J**
MW-3-Screen-4						
MW-3-Screen-4	Jul/Aug 2016	MW-3-4	NA	NA	**38.0**	2.0 U
MW-3-Screen-4	Oct 2016	MW-3-4	NA	NA	**13.0**	2.0 U
MW-3-Screen-4	Jan/Feb 2017	MW-3-4	NA	NA	**17.0**	2.0 U
MW-3-Screen-4	Jan/Feb 2017	DUP-2-1Q17	NA	NA	**8.1**	2.0 U
MW-3-Screen-4	Apr/May 2017	MW-3-4	**18.0**	1.0 U	**31.0**	2.0 U
MW-3-Screen-4	Jul/Aug 2017	MW-3-4	NA	NA	**38.0**	2.0 U
MW-3-Screen-5						
MW-3-Screen-5	Oct 2016	MW-3-5	NA	NA	**0.5 J**	10.0 U
MW-3-Screen-5	Apr/May 2017	MW-3-5	**3.3**	1.0 U	**5.2**	2.0 U
MW-4-Screen-1						
MW-4-Screen-1	Jul/Aug 2016	MW-4-1	NA	NA	3.0 U	2.0 U
MW-4-Screen-1	Oct 2016	MW-4-1	NA	NA	**0.8 J**	2.0 U
MW-4-Screen-1	Jan/Feb 2017	MW-4-1	NA	NA	2.2 U	2.0 U
MW-4-Screen-1	Jan/Feb 2017	DUP-6-1Q17	NA	NA	2.4 U	2.0 U
MW-4-Screen-1	Apr/May 2017	MW-4-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-4-Screen-1	Jul/Aug 2017	MW-4-1	NA	NA	1.8 U	2.0 U
MW-4-Screen-2						
MW-4-Screen-2	Jul/Aug 2016	MW-4-2	NA	NA	3.0 U	2.0 U
MW-4-Screen-2	Oct 2016	MW-4-2	NA	NA	**2.2 J**	2.0 U
MW-4-Screen-2	Jan/Feb 2017	MW-4-2	NA	NA	3.1 U	2.0 U
MW-4-Screen-2	Apr/May 2017	MW-4-2	2.0 U	1.0 U	**1.7 J**	2.0 U
MW-4-Screen-2	Jul/Aug 2017	MW-4-2	NA	NA	**4.2**	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-4-Screen-3						
MW-4-Screen-3	Jul/Aug 2016	MW-4-3	NA	NA	**1.0 J**	2.0 U
MW-4-Screen-3	Oct 2016	MW-4-3	NA	NA	**2.8 J**	10.0 U
MW-4-Screen-3	Jan/Feb 2017	MW-4-3	NA	NA	2.6 U	2.0 U
MW-4-Screen-3	Apr/May 2017	MW-4-3	2.0 U	**0.1 J**	**55.0**	2.0 U
MW-4-Screen-3	Jul/Aug 2017	MW-4-3	NA	NA	**8.6**	2.0 U
MW-4-Screen-4						
MW-4-Screen-4	Oct 2016	MW-4-4	NA	NA	**1.4 J**	2.0 U
MW-4-Screen-4	Oct 2016	DUP-5-4Q16	NA	NA	**1.3 J**	2.0 U
MW-4-Screen-4	Apr/May 2017	MW-4-4	2.0 U	1.0 U	3.0 U	2.0 U
MW-4-Screen-5						
MW-4-Screen-5	Oct 2016	MW-4-5	NA	NA	**3.4**	2.0 U
MW-4-Screen-5	Apr/May 2017	MW-4-5	2.0 U	1.0 U	3.0 U	2.0 U
MW-5						
MW-5	Jul/Aug 2016	MW-5	NA	NA	**1.4 J**	2.0 U
MW-5	Jan/Feb 2017	MW-5	NA	NA	3.0 U	**0.9 J**
MW-5	Apr/May 2017	MW-5	2.0 U	1.0 U	1.0 U	2.0 U
MW-5	Jul/Aug 2017	MW-5	NA	NA	1.2 U	2.0 U
MW-6						
MW-6	Jul/Aug 2016	MW-6	NA	NA	**53.0**	2.0 U
MW-6	Jul/Aug 2016	DUP-4-3Q16	NA	NA	**41.0**	2.0 U
MW-6	Jan/Feb 2017	MW-6	NA	NA	**27.0**	2.0 U
MW-6	Jan/Feb 2017	DUP-4-1Q17	NA	NA	**19.0**	2.0 U
MW-6	Apr/May 2017	MW-6	2.0 U	1.0 U	**80.0**	**1.6 J**
MW-6	Jul/Aug 2017	MW-6	NA	NA	**30.0**	2.0 U
MW-6	Jul/Aug 2017	DUP-7-3Q17	NA	NA	**120.0**	**2.0**
MW-7						
MW-7	Apr/May 2017	MW-7	2.0 U	1.0 U	**64.0 J**	2.9 U
MW-7	Jul/Aug 2017	MW-7	NA	NA	**7400.0**	**1.1 J**
MW-8						
MW-8	Jul/Aug 2016	MW-8	NA	NA	**29.0**	**4.0**
MW-8	Jul/Aug 2016	DUP-5-3Q16	NA	NA	**29.0**	**3.0**
MW-8	Oct 2016	MW-8	NA	NA	**35.0 J**	3.3 U
MW-8	Jan/Feb 2017	MW-8	NA	NA	**65.0 J**	**5.3**
MW-8	Jan/Feb 2017	MW-8	NA	NA	NA	NA
MW-8	Apr/May 2017	MW-8	2.0 U	1.0 U	2.3 U	2.0 U
MW-8	Jul/Aug 2017	MW-8	NA	NA	1.9 U	**0.8 J**
MW-9						
MW-9	Oct 2016	MW-9	NA	NA	**100.0**	2.0 U
MW-9	Oct 2016	DUP-7-4Q16	NA	NA	**76.0**	2.0 U
MW-9	Apr/May 2017	MW-9	2.0 U	1.0 U	**19.0 J**	1.4 U
MW-10						
MW-10	Jul/Aug 2016	MW-10	NA	NA	**21.0**	2.0 U
MW-10	Jan/Feb 2017	MW-10	NA	NA	**18.0**	**0.9 J**
MW-10	Jan/Feb 2017	MW-10	NA	NA	**17.0**	**0.8 J**
MW-10	Apr/May 2017	MW-10	2.0 U	1.0 U	**3.5**	**2.5**
MW-10	Jul/Aug 2017	MW-10	NA	NA	**3.8**	**2.9**

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-11-Screen-1						
MW-11-Screen-1	Jul/Aug 2016	MW-11-1	NA	NA	**2.1 J**	2.0 U
MW-11-Screen-1	Jul/Aug 2016	DUP-2-3Q16	NA	NA	**2.0 J**	2.0 U
MW-11-Screen-1	Oct 2016	MW-11-1	NA	NA	**1.2 J**	2.0 U
MW-11-Screen-1	Jan/Feb 2017	MW-11-1	NA	NA	2.4 U	2.0 U
MW-11-Screen-1	Apr/May 2017	MW-11-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-11-Screen-1	Jul/Aug 2017	MW-11-1	NA	NA	2.2 U	2.0 U
MW-11-Screen-2						
MW-11-Screen-2	Jul/Aug 2016	MW-11-2	NA	NA	**2.8 J**	2.0 U
MW-11-Screen-2	Oct 2016	MW-11-2	NA	NA	**4.0 J**	**0.9 J**
MW-11-Screen-2	Jan/Feb 2017	MW-11-2	NA	NA	2.4 U	2.0 U
MW-11-Screen-2	Apr/May 2017	MW-11-2	2.0 U	1.0 U	**0.7 J**	1.0 U
MW-11-Screen-2	Jul/Aug 2017	MW-11-2	NA	NA	2.1 U	2.0 U
MW-11-Screen-2	Jul/Aug 2017	DUP-5-3Q17	NA	NA	2.0 U	2.0 U
MW-11-Screen-3						
MW-11-Screen-3	Jul/Aug 2016	MW-11-3	NA	NA	**1.9 J**	2.0 U
MW-11-Screen-3	Oct 2016	MW-11-3	NA	NA	**2.1 J**	**0.7 J**
MW-11-Screen-3	Jan/Feb 2017	MW-11-3	NA	NA	2.5 U	2.0 U
MW-11-Screen-3	Apr/May 2017	MW-11-3	2.0 U	1.0 U	**1.1 J**	2.0 U
MW-11-Screen-3	Jul/Aug 2017	MW-11-3	NA	NA	2.9 U	2.0 U
MW-11-Screen-4						
MW-11-Screen-4	Oct 2016	MW-11-4	NA	NA	**1.2 J**	2.0 U
MW-11-Screen-4	Oct 2016	DUP-4-4Q16	NA	NA	**1.4 J**	2.0 U
MW-11-Screen-4	Apr/May 2017	MW-11-4	2.0 U	1.0 U	**1.2 J**	2.0 U
MW-11-Screen-5						
MW-11-Screen-5	Oct 2016	MW-11-5	NA	NA	**3.2**	2.0 U
MW-11-Screen-5	Apr/May 2017	MW-11-5	**6.1**	**0.4 J**	**2.1 J**	2.0 U
MW-12-Screen-1						
MW-12-Screen-1	Jan/Feb 2017	MW-12-1	NA	NA	2.5 U	2.0 U
MW-12-Screen-1	Apr/May 2017	MW-12-1	2.0 U	1.0 U	**1.8 J**	2.0 U
MW-12-Screen-1	Jul/Aug 2017	MW-12-1	NA	NA	2.9 U	2.0 U
MW-12-Screen-2						
MW-12-Screen-2	Jul/Aug 2016	MW-12-2	NA	NA	**1.6 J**	2.0 U
MW-12-Screen-2	Oct 2016	MW-12-2	NA	NA	**1.7 J**	2.0 U
MW-12-Screen-2	Jan/Feb 2017	MW-12-2	NA	NA	2.1 U	2.0 U
MW-12-Screen-2	Apr/May 2017	MW-12-2	2.0 U	1.0 U	**1.2 J**	2.0 U
MW-12-Screen-2	Jul/Aug 2017	MW-12-2	NA	NA	1.9 U	4.0 U
MW-12-Screen-3						
MW-12-Screen-3	Jul/Aug 2016	MW-12-3	NA	NA	**1.0 J**	2.0 U
MW-12-Screen-3	Oct 2016	MW-12-3	NA	NA	**1.2 J**	2.0 U
MW-12-Screen-3	Jan/Feb 2017	MW-12-3	NA	NA	1.6 U	2.0 U
MW-12-Screen-3	Jan/Feb 2017	DUP-7-1Q17	NA	NA	1.5 U	2.0 U
MW-12-Screen-3	Apr/May 2017	MW-12-3	2.0 U	1.0 U	**0.9 J**	**0.8 J**
MW-12-Screen-3	Jul/Aug 2017	MW-12-3	NA	NA	1.8 U	2.0 U
MW-12-Screen-3	Jul/Aug 2017	DUP-4-3Q17	NA	NA	2.4 U	2.0 U
MW-12-Screen-4						
MW-12-Screen-4	Oct 2016	MW-12-4	NA	NA	**1.4 J**	**1.0 J**
MW-12-Screen-4	Apr/May 2017	MW-12-4	**1.4 J**	1.0 U	**1.1 J**	**0.8 J**

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-12-Screen-5						
MW-12-Screen-5	Oct 2016	MW-12-5	NA	NA	**2.3 J**	**1.8 J**
MW-12-Screen-5	Apr/May 2017	MW-12-5	**1.8 J**	1.0 U	**1.8 J**	**1.5 J**
MW-13						
MW-13	Apr/May 2017	MW-13	2.0 U	**0.1 J**	**330.0 J**	**4.0**
MW-13	Jul/Aug 2017	MW-13	NA	NA	**1300.0**	**2.5**
MW-13	Jul/Aug 2017	DUP-6-3Q17	NA	NA	**680.0**	**2.7**
MW-14-Screen-1						
MW-14-Screen-1	Apr/May 2017	MW-14-1	2.0 U	1.0 U	**1.2 J**	0.8 U
MW-14-Screen-1	Jul/Aug 2017	MW-14-1	NA	NA	1.8 U	**0.9 J**
MW-14-Screen-2						
MW-14-Screen-2	Jul/Aug 2016	MW-14-2	NA	NA	3.0 U	2.0 U
MW-14-Screen-2	Oct 2016	MW-14-2	NA	NA	**0.9 J**	**0.8 J**
MW-14-Screen-2	Jan/Feb 2017	MW-14-2	NA	NA	1.2 U	**1.0 J**
MW-14-Screen-2	Apr/May 2017	MW-14-2	2.0 U	1.0 U	**0.6 J**	1.8 U
MW-14-Screen-2	Apr/May 2017	DUP-8-2Q17	2.0 U	1.0 U	**0.7 J**	**1.7 J**
MW-14-Screen-2	Jul/Aug 2017	MW-14-2	NA	NA	1.0 U	**0.9 J**
MW-14-Screen-3						
MW-14-Screen-3	Jul/Aug 2016	MW-14-3	NA	NA	3.0 U	2.0 U
MW-14-Screen-3	Oct 2016	MW-14-3	NA	NA	**0.6 J**	2.0 U
MW-14-Screen-3	Jan/Feb 2017	MW-14-3	NA	NA	1.4 U	**0.9 J**
MW-14-Screen-3	Apr/May 2017	MW-14-3	2.0 U	1.0 U	**0.7 J**	1.0 U
MW-14-Screen-3	Jul/Aug 2017	MW-14-3	NA	NA	1.0 U	2.0 UJ
MW-14-Screen-3	Jul/Aug 2017	DUP-2-3Q17	NA	NA	0.8 U	2.0 UJ
MW-14-Screen-4						
MW-14-Screen-4	Oct 2016	MW-14-4	NA	NA	**2.2 J**	**2.7**
MW-14-Screen-4	Apr/May 2017	MW-14-4	2.0 U	1.0 U	**2.0 J**	**1.8 J**
MW-14-Screen-5						
MW-14-Screen-5	Oct 2016	MW-14-5	NA	NA	**0.8 J**	2.0 U
MW-14-Screen-5	Apr/May 2017	MW-14-5	2.0 U	1.0 U	**0.9 J**	2.0 U
MW-15						
MW-15	Jul/Aug 2016	MW-15	NA	NA	**3.5 J**	2.0 U
MW-15	Oct 2016	MW-15	NA	NA	**2.3 J**	0.8 U
MW-15	Jan/Feb 2017	MW-15	NA	NA	6.6 U	**0.8 J**
MW-15	Apr/May 2017	MW-15	**1.1 J**	1.0 U	2.0 U	**0.9 J**
MW-15	Apr/May 2017	DUP-5-2Q17	**1.1 J**	1.0 U	3.2 U	**0.8 J**
MW-15	Jul/Aug 2017	MW-15	NA	NA	**5.9**	2.0 U
MW-16						
MW-16	Apr/May 2017	MW-16	**3.9**	1.0 U	**4.7 J**	2.7 U
MW-16	Jul/Aug 2017	MW-16	NA	NA	**76.0**	**1.6 J**
MW-17-Screen-1						
MW-17-Screen-1	Apr/May 2017	MW-17-1	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-2						
MW-17-Screen-2	Jul/Aug 2016	MW-17-2	NA	NA	**1.1 J**	2.0 U
MW-17-Screen-2	Oct 2016	MW-17-2	NA	NA	2.7 U	2.0 U
MW-17-Screen-2	Oct 2016	DUP-1-4Q16	NA	NA	2.6 U	2.0 U
MW-17-Screen-2	Jan/Feb 2017	MW-17-2	NA	NA	1.9 U	2.0 U
MW-17-Screen-2	Apr/May 2017	MW-17-2	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-2	Jul/Aug 2017	MW-17-2	NA	NA	3.0 U	2.0 U
MW-17-Screen-3						
MW-17-Screen-3	Jul/Aug 2016	MW-17-3	NA	NA	**2.3 J**	2.0 U
MW-17-Screen-3	Oct 2016	MW-17-3	NA	NA	2.4 U	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-17-Screen-3	Jan/Feb 2017	MW-17-3	NA	NA	1.7 U	2.0 U
MW-17-Screen-3	Apr/May 2017	MW-17-3	2.0 U	1.0 U	3.0 U	2.0 U
MW-17-Screen-3	Jul/Aug 2017	MW-17-3	NA	NA	3.0 U	2.0 U
MW-17-Screen-4						
MW-17-Screen-4	Jul/Aug 2016	MW-17-4	NA	NA	**1.2 J**	2.0 U
MW-17-Screen-4	Oct 2016	MW-17-4	NA	NA	2.3 U	0.9 U
MW-17-Screen-4	Jan/Feb 2017	MW-17-4	NA	NA	2.5 U	2.0 U
MW-17-Screen-4	Apr/May 2017	MW-17-4	**3.0**	1.0 U	**0.7 J**	1.0 U
MW-17-Screen-4	Jul/Aug 2017	MW-17-4	NA	NA	0.5 U	2.0 U
MW-17-Screen-5						
MW-17-Screen-5	Oct 2016	MW-17-5	NA	NA	2.6 U	2.0 U
MW-17-Screen-5	Apr/May 2017	MW-17-5	**7.7**	**2.7**	**0.9 J**	0.9 U
MW-18-Screen-1						
MW-18-Screen-1	Apr/May 2017	MW-18-1	2.0 U	1.0 U	**0.8 J**	2.0 U
MW-18-Screen-2						
MW-18-Screen-2	Jul/Aug 2016	MW-18-2	NA	NA	**1.1 J**	**1.0 J**
MW-18-Screen-2	Oct 2016	MW-18-2	NA	NA	3.0 U	2.0 U
MW-18-Screen-2	Jan/Feb 2017	MW-18-2	NA	NA	1.8 U	2.0 U
MW-18-Screen-2	Apr/May 2017	MW-18-2	2.0 U	1.0 U	**0.6 J**	2.0 U
MW-18-Screen-2	Jul/Aug 2017	MW-18-2	NA	NA	3.0 U	2.0 U
MW-18-Screen-3						
MW-18-Screen-3	Jul/Aug 2016	MW-18-3	NA	NA	**2.8 J**	**2.0**
MW-18-Screen-3	Oct 2016	MW-18-3	NA	NA	**2.0 J**	**1.3 J**
MW-18-Screen-3	Oct 2016	DUP-2-4Q16	NA	NA	**1.9 J**	**1.8 J**
MW-18-Screen-3	Jan/Feb 2017	MW-18-3	NA	NA	**3.3**	**1.3 J**
MW-18-Screen-3	Apr/May 2017	MW-18-3	**0.9 J**	1.0 U	**2.6 J**	**1.6 J**
MW-18-Screen-3	Jul/Aug 2017	MW-18-3	NA	NA	2.1 U	**1.6 J**
MW-18-Screen-4						
MW-18-Screen-4	Jul/Aug 2016	MW-18-4	NA	NA	**3.0**	**2.0**
MW-18-Screen-4	Oct 2016	MW-18-4	NA	NA	**2.6 J**	**1.9 J**
MW-18-Screen-4	Jan/Feb 2017	MW-18-4	NA	NA	2.5 U	2.0 U
MW-18-Screen-4	Apr/May 2017	MW-18-4	2.0 U	1.0 U	2.5 U	**1.2 J**
MW-18-Screen-4	Jul/Aug 2017	MW-18-4	NA	NA	2.0 U	**1.6 J**
MW-18-Screen-5						
MW-18-Screen-5	Oct 2016	MW-18-5	NA	NA	3.0 U	2.0 U
MW-18-Screen-5	Apr/May 2017	MW-18-5	2.0 U	1.0 U	**1.5 J**	2.0 U
MW-19-Screen-1						
MW-19-Screen-1	Oct 2016	MW-19-1	NA	NA	3.0 U	2.0 U
MW-19-Screen-1	Jan/Feb 2017	MW-19-1	NA	NA	NA	NA
MW-19-Screen-1	Apr/May 2017	MW-19-1	2.0 U	1.0 U	**0.7 J**	2.0 U
MW-19-Screen-2						
MW-19-Screen-2	Oct 2016	MW-19-2	NA	NA	**1.7 J**	**0.8 J**
MW-19-Screen-2	Jan/Feb 2017	MW-19-2	NA	NA	NA	NA
MW-19-Screen-2	Apr/May 2017	MW-19-2	2.0 U	1.0 U	**2.3 J**	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-19-Screen-3						
MW-19-Screen-3	Oct 2016	MW-19-3	NA	NA	**5.1**	2.0 U
MW-19-Screen-3	Jan/Feb 2017	MW-19-3	NA	NA	NA	NA
MW-19-Screen-3	Apr/May 2017	MW-19-3	2.0 U	1.0 U	**3.1**	**1.3 J**
MW-19-Screen-4						
MW-19-Screen-4	Oct 2016	MW-19-4	NA	NA	**3.1**	**1.8 J**
MW-19-Screen-4	Oct 2016	DUP-6-4Q16	NA	NA	**2.5 J**	**1.9 J**
MW-19-Screen-4	Jan/Feb 2017	MW-19-4	NA	NA	NA	NA
MW-19-Screen-4	Apr/May 2017	MW-19-4	**0.7 J**	1.0 U	**2.7 J**	**1.5 J**
MW-19-Screen-5						
MW-19-Screen-5	Oct 2016	MW-19-5	NA	NA	**1.3 J**	2.0 U
MW-19-Screen-5	Jan/Feb 2017	MW-19-5	NA	NA	NA	NA
MW-19-Screen-5	Apr/May 2017	MW-19-5	**1.1 J**	1.0 U	**1.5 J**	2.0 U
MW-20-Screen-1						
MW-20-Screen-1	Jul/Aug 2017	MW-20-1	NA	NA	1.7 U	2.0 UJ
MW-20-Screen-2						
MW-20-Screen-2	Jul/Aug 2016	MW-20-2	NA	NA	**2.6 J**	2.0 U
MW-20-Screen-2	Oct 2016	MW-20-2	NA	NA	2.1 U	0.9 U
MW-20-Screen-2	Jan/Feb 2017	MW-20-2	NA	NA	1.7 U	2.0 U
MW-20-Screen-2	Apr/May 2017	MW-20-2	2.0 U	1.0 U	3.0 U	2.0 U
MW-20-Screen-2	Jul/Aug 2017	MW-20-2	NA	NA	1.2 U	2.0 UJ
MW-20-Screen-3						
MW-20-Screen-3	Jul/Aug 2016	MW-20-3	NA	NA	**2.8 J**	2.0 U
MW-20-Screen-3	Oct 2016	MW-20-3	NA	NA	2.6 U	0.9 U
MW-20-Screen-3	Jan/Feb 2017	MW-20-3	NA	NA	1.5 U	2.0 U
MW-20-Screen-3	Apr/May 2017	MW-20-3	2.0 U	1.0 U	3.0 U	2.0 U
MW-20-Screen-3	Apr/May 2017	DUP-2-2Q17	2.0 U	1.0 U	**0.5 J**	2.0 U
MW-20-Screen-3	Jul/Aug 2017	MW-20-3	NA	NA	1.2 U	2.0 UJ
MW-20-Screen-3	Jul/Aug 2017	DUP-1-3Q17	NA	NA	1.4 U	2.0 UJ
MW-20-Screen-4						
MW-20-Screen-4	Jul/Aug 2016	MW-20-4	NA	NA	**2.7 J**	2.0 U
MW-20-Screen-4	Oct 2016	MW-20-4	NA	NA	2.0 U	0.8 U
MW-20-Screen-4	Jan/Feb 2017	MW-20-4	NA	NA	1.0 U	10.0 UJ
MW-20-Screen-4	Apr/May 2017	MW-20-4	**1.1 J**	1.0 U	**0.7 J**	2.0 U
MW-20-Screen-4	Jul/Aug 2017	MW-20-4	NA	NA	1.7 U	2.0 UJ
MW-20-Screen-5						
MW-20-Screen-5	Jul/Aug 2016	MW-20-5	NA	NA	**2.3 J**	2.0 U
MW-20-Screen-5	Jul/Aug 2016	DUP-1-3Q16	NA	NA	**3.2**	2.0 U
MW-20-Screen-5	Oct 2016	MW-20-5	NA	NA	2.4 U	2.0 U
MW-20-Screen-5	Jan/Feb 2017	MW-20-5	NA	NA	1.3 U	2.0 U
MW-20-Screen-5	Apr/May 2017	MW-20-5	2.0 U	1.0 U	**0.6 J**	2.0 U
MW-20-Screen-5	Jul/Aug 2017	MW-20-5	NA	NA	1.3 U	2.0 UJ
MW-21-Screen-1						
MW-21-Screen-1	Apr/May 2017	MW-21-1	2.0 U	1.0 U	3.0 U	**1.4 J**
MW-21-Screen-1	Jul/Aug 2017	MW-21-1	NA	NA	3.1 U	**1.8 J**
MW-21-Screen-2						
MW-21-Screen-2	Jul/Aug 2016	MW-21-2	NA	NA	**1.3 J**	2.0 U
MW-21-Screen-2	Oct 2016	MW-21-2	NA	NA	**1.6 J**	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-21-Screen-2	Jan/Feb 2017	MW-21-2	NA	NA	1.4 U	**0.7 J**
MW-21-Screen-2	Apr/May 2017	MW-21-2	2.0 U	1.0 U	3.0 U	**1.0 J**
MW-21-Screen-2	Jul/Aug 2017	MW-21-2	NA	NA	1.8 U	2.0 U
MW-21-Screen-3						
MW-21-Screen-3	Jul/Aug 2016	MW-21-3	NA	NA	**1.0 J**	2.0 U
MW-21-Screen-3	Oct 2016	MW-21-3	NA	NA	**1.7 J**	2.0 U
MW-21-Screen-3	Jan/Feb 2017	MW-21-3	NA	NA	1.3 U	2.0 U
MW-21-Screen-3	Jan/Feb 2017	DUP-3-1Q17	NA	NA	1.1 U	2.0 U
MW-21-Screen-3	Apr/May 2017	MW-21-3	2.0 U	1.0 U	3.0 U	**0.8 J**
MW-21-Screen-3	Jul/Aug 2017	MW-21-3	NA	NA	**4.2**	2.0 U
MW-21-Screen-4						
MW-21-Screen-4	Jul/Aug 2016	MW-21-4	NA	NA	**1.0 J**	2.0 U
MW-21-Screen-4	Jul/Aug 2016	DUP-7-3Q16	NA	NA	**1.8 J**	2.0 U
MW-21-Screen-4	Oct 2016	MW-21-4	NA	NA	**3.6**	**1.2 J**
MW-21-Screen-4	Jan/Feb 2017	MW-21-4	NA	NA	2.6 U	**1.4 J**
MW-21-Screen-4	Apr/May 2017	MW-21-4	2.0 U	1.0 U	**1.8 J**	1.1 U
MW-21-Screen-4	Apr/May 2017	DUP-6-2Q17	2.0 U	1.0 U	**1.8 J**	1.2 U
MW-21-Screen-4	Jul/Aug 2017	MW-21-4	NA	NA	3.0 U	**1.3 J**
MW-21-Screen-5						
MW-21-Screen-5	Jul/Aug 2016	MW-21-5	NA	NA	**2.1 J**	2.0 U
MW-21-Screen-5	Oct 2016	MW-21-5	NA	NA	**1.6 J**	**1.6 J**
MW-21-Screen-5	Jan/Feb 2017	MW-21-5	NA	NA	2.5 U	**1.6 J**
MW-21-Screen-5	Apr/May 2017	MW-21-5	2.0 U	1.0 U	3.0 U	**1.8 J**
MW-21-Screen-5	Jul/Aug 2017	MW-21-5	NA	NA	2.6 U	**1.4 J**
MW-22-Screen-1						
MW-22-Screen-1	Jul/Aug 2016	MW-22-1	NA	NA	**1.4 J**	2.0 U
MW-22-Screen-1	Oct 2016	MW-22-1	NA	NA	**2.3 J**	2.0 U
MW-22-Screen-1	Jan/Feb 2017	MW-22-1	NA	NA	3.0 U	2.0 U
MW-22-Screen-1	Apr/May 2017	MW-22-1	2.0 U	1.0 U	**1.2 J**	1.3 U
MW-22-Screen-1	Jul/Aug 2017	MW-22-1	NA	NA	2.5 U	2.0 U
MW-22-Screen-2						
MW-22-Screen-2	Jul/Aug 2016	MW-22-2	NA	NA	**2.2 J**	**1.0 J**
MW-22-Screen-2	Oct 2016	MW-22-2	NA	NA	**4.9**	**1.7 J**
MW-22-Screen-2	Jan/Feb 2017	MW-22-2	NA	NA	**2.2 J**	**1.5 J**
MW-22-Screen-2	Apr/May 2017	MW-22-2	2.0 U	1.0 U	**1.2 J**	1.1 U
MW-22-Screen-2	Apr/May 2017	DUP-3-2Q17	2.0 U	1.0 U	**1.4 J**	1.1 U
MW-22-Screen-2	Jul/Aug 2017	MW-22-2	NA	NA	**3.2**	**1.3 J**
MW-22-Screen-3						
MW-22-Screen-3	Jul/Aug 2016	MW-22-3	NA	NA	**2.4 J**	**1.0 J**
MW-22-Screen-3	Oct 2016	MW-22-3	NA	NA	**8.2**	**3.1**
MW-22-Screen-3	Oct 2016	DUP-3-4Q16	NA	NA	**3.3**	**2.7**
MW-22-Screen-3	Jan/Feb 2017	MW-22-3	NA	NA	**1.7 J**	**1.9 J**
MW-22-Screen-3	Apr/May 2017	MW-22-3	**1.2 J**	1.0 U	**2.7 J**	2.8 U
MW-22-Screen-3	Jul/Aug 2017	MW-22-3	NA	NA	**3.1**	**2.3**
MW-22-Screen-4						
MW-22-Screen-4	Oct 2016	MW-22-4	NA	NA	**3.5**	**2.9**
MW-22-Screen-4	Apr/May 2017	MW-22-4	**0.8 J**	1.0 U	**2.9 J**	2.9 U
MW-22-Screen-5						
MW-22-Screen-5	Oct 2016	MW-22-5	NA	NA	**1.9 J**	2.0 U
MW-22-Screen-5	Apr/May 2017	MW-22-5	2.0 U	1.0 U	**0.7 J**	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-23-Screen-1						
MW-23-Screen-1	Jul/Aug 2016	MW-23-1	NA	NA	**0.7 J**	**1.0 J**
MW-23-Screen-1	Jul/Aug 2016	DUP-6-3Q16	NA	NA	**0.8 J**	**1.0 J**
MW-23-Screen-1	Oct 2016	MW-23-1	NA	NA	**2.1 J**	**1.1 J**
MW-23-Screen-1	Jan/Feb 2017	MW-23-1	NA	NA	3.8 U	2.0 U
MW-23-Screen-1	Apr/May 2017	MW-23-1	2.0 U	1.0 U	**1.6 J**	2.0 U
MW-23-Screen-1	Jul/Aug 2017	MW-23-1	NA	NA	**2.0 J**	2.0 U
MW-23-Screen-2						
MW-23-Screen-2	Jul/Aug 2016	MW-23-2	NA	NA	**0.7 J**	2.0 U
MW-23-Screen-2	Oct 2016	MW-23-2	NA	NA	**2.7 J**	**1.6 J**
MW-23-Screen-2	Jan/Feb 2017	MW-23-2	NA	NA	2.6 U	1.1 U
MW-23-Screen-2	Apr/May 2017	MW-23-2	2.0 U	1.0 U	**1.7 J**	1.4 U
MW-23-Screen-2	Jul/Aug 2017	MW-23-2	NA	NA	**2.2 J**	**1.1 J**
MW-23-Screen-2	Jul/Aug 2017	DUP-3-3Q17	NA	NA	**2.2 J**	**1.0 J**
MW-23-Screen-3						
MW-23-Screen-3	Jul/Aug 2016	MW-23-3	NA	NA	**3.1**	**3.0**
MW-23-Screen-3	Oct 2016	MW-23-2	NA	NA	**3.9**	**3.6**
MW-23-Screen-3	Jan/Feb 2017	MW-23-2	NA	NA	4.7 U	2.5 U
MW-23-Screen-3	Apr/May 2017	MW-23-3	2.0 U	1.0 U	**3.2**	2.9 U
MW-23-Screen-3	Jul/Aug 2017	MW-23-3	NA	NA	**3.8**	**2.9**
MW-23-Screen-4						
MW-23-Screen-4	Jul/Aug 2016	MW-23-4	NA	NA	**2.7 J**	**3.0**
MW-23-Screen-4	Oct 2016	MW-23-4	NA	NA	**4.6**	**2.9**
MW-23-Screen-4	Jan/Feb 2017	MW-23-4	NA	NA	4.2 U	2.3 U
MW-23-Screen-4	Apr/May 2017	MW-23-4	**1.1 J**	1.0 U	**3.1**	3.2 U
MW-23-Screen-4	Apr/May 2017	DUP-7-2Q17	**1.2 J**	1.0 U	**3.0**	3.6 U
MW-23-Screen-4	Jul/Aug 2017	MW-23-4	NA	NA	**3.7**	**3.1**
MW-23-Screen-5						
MW-23-Screen-5	Oct 2016	MW-23-5	NA	NA	**1.6 J**	2.0 U
MW-23-Screen-5	Apr/May 2017	MW-23-5	**2.6**	**0.3 J**	**0.6 J**	2.0 U
MW-24-Screen-1						
MW-24-Screen-1	Jul/Aug 2016	MW-24-1	NA	NA	**2.6 J**	2.0 UJ
MW-24-Screen-1	Oct 2016	MW-24-1	NA	NA	**2.3 J**	2.0 U
MW-24-Screen-1	Jan/Feb 2017	MW-24-1	NA	NA	**1.1 J**	2.0 U
MW-24-Screen-1	Apr/May 2017	MW-24-1	**0.9 J**	1.0 U	4.7 U	1.0 U
MW-24-Screen-1	Jul/Aug 2017	MW-24-1	NA	NA	**4.6**	2.0 U
MW-24-Screen-2						
MW-24-Screen-2	Jul/Aug 2016	MW-24-2	NA	NA	**2.3 J**	**1.0 J**
MW-24-Screen-2	Oct 2016	MW-24-2	NA	NA	**3.1**	**2.2**
MW-24-Screen-2	Jan/Feb 2017	MW-24-2	NA	NA	3.0 U	**0.9 J**
MW-24-Screen-2	Apr/May 2017	MW-24-2	**1.5 J**	1.0 U	**2.6 J**	2.3 U
MW-24-Screen-2	Jul/Aug 2017	MW-24-2	NA	NA	**3.9**	**1.8 J**
MW-24-Screen-3						
MW-24-Screen-3	Jul/Aug 2016	MW-24-3	NA	NA	**1.5 J**	2.0 UJ
MW-24-Screen-3	Oct 2016	MW-24-3	NA	NA	**2.5 J**	2.0 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-24-Screen-3	Jan/Feb 2017	MW-24-3	NA	NA	3.0 U	2.0 U
MW-24-Screen-3	Apr/May 2017	MW-24-3	**1.7 J**	1.0 U	**1.0 J**	2.0 U
MW-24-Screen-3	Jul/Aug 2017	MW-24-3	NA	NA	2.3 U	2.0 U
MW-24-Screen-4						
MW-24-Screen-4	Jul/Aug 2016	MW-24-4	NA	NA	**0.8 J**	2.0 UJ
MW-24-Screen-4	Oct 2016	MW-24-4	NA	NA	**1.4 J**	2.0 UJ
MW-24-Screen-4	Jan/Feb 2017	MW-24-4	NA	NA	2.4 U	2.0 U
MW-24-Screen-4	Apr/May 2017	MW-24-4	**0.7 J**	1.0 U	**1.4 J**	2.0 U
MW-24-Screen-4	Jul/Aug 2017	MW-24-4	NA	NA	2.2 U	2.0 U
MW-24-Screen-5						
MW-24-Screen-5	Oct 2016	MW-24-5	NA	NA	**4.5**	**3.0**
MW-24-Screen-5	Apr/May 2017	MW-24-5	**1.8 J**	1.0 U	**3.8**	2.2 U
MW-25-Screen-1						
MW-25-Screen-1	Oct 2016	MW-25-1	NA	NA	**2.5 J**	2.0 U
MW-25-Screen-1	Jan/Feb 2017	MW-25-1	NA	NA	1.9 U	2.0 U
MW-25-Screen-1	Apr/May 2017	MW-25-1	2.0 U	1.0 U	2.6 U	2.0 U
MW-25-Screen-1	Jul/Aug 2017	MW-25-1	NA	NA	**3.1**	2.0 UJ
MW-25-Screen-2						
MW-25-Screen-2	Oct 2016	MW-25-2	NA	NA	**2.6 J**	**2.1**
MW-25-Screen-2	Jan/Feb 2017	MW-25-2	NA	NA	**2.2 J**	**1.1 J**
MW-25-Screen-2	Apr/May 2017	MW-25-2	2.0 U	1.0 U	3.9 U	**2.9**
MW-25-Screen-2	Apr/May 2017	DUP-1-2Q17	2.0 U	1.0 U	3.9 U	**2.8**
MW-25-Screen-2	Jul/Aug 2017	MW-25-2	NA	NA	**4.2**	**3.1 J**
MW-25-Screen-3						
MW-25-Screen-3	Oct 2016	MW-25-3	NA	NA	**2.8 J**	**2.5**
MW-25-Screen-3	Jan/Feb 2017	MW-25-3	NA	NA	**2.5 J**	**1.6 J**
MW-25-Screen-3	Apr/May 2017	MW-25-3	2.0 U	1.0 U	4.9 U	**2.9**
MW-25-Screen-3	Jul/Aug 2017	MW-25-3	NA	NA	**4.1**	**3.3 J**
MW-25-Screen-4						
MW-25-Screen-4	Oct 2016	MW-25-4	NA	NA	**2.5 J**	**1.0 J**
MW-25-Screen-4	Jan/Feb 2017	MW-25-4	NA	NA	**1.8 J**	2.0 U
MW-25-Screen-4	Apr/May 2017	MW-25-4	2.0 U	1.0 U	2.7 U	**0.7 J**
MW-25-Screen-4	Jul/Aug 2017	MW-25-4	NA	NA	2.3 U	**1.1 J**
MW-25-Screen-5						
MW-25-Screen-5	Oct 2016	MW-25-5	NA	NA	**1.5 J**	2.0 U
MW-25-Screen-5	Jan/Feb 2017	MW-25-5	NA	NA	**1.1 J**	2.0 U
MW-25-Screen-5	Apr/May 2017	MW-25-5	**0.8 J**	1.0 U	1.3 U	2.0 U
MW-25-Screen-5	Jul/Aug 2017	MW-25-5	NA	NA	0.8 U	2.0 UJ
MW-26-Screen-1						
MW-26-Screen-1	Jul/Aug 2016	MW-26-1	NA	NA	**1.6 J**	**1.0 J**
MW-26-Screen-1	Oct 2016	MW-26-1	NA	NA	3.0 U	**0.7 J**
MW-26-Screen-1	Jan/Feb 2017	MW-26-1	NA	NA	1.9 U	2.0 U
MW-26-Screen-1	Apr/May 2017	MW-26-1	2.0 U	1.0 U	**1.0 J**	2.0 U
MW-26-Screen-1	Apr/May 2017	DUP-4-2Q17	2.0 U	1.0 U	0.9 U	**0.9 J**
MW-26-Screen-1	Jul/Aug 2017	MW-26-1	NA	NA	**1.6 J**	2.0 U
MW-26-Screen-2						
MW-26-Screen-2	Jul/Aug 2016	MW-26-2	NA	NA	**5.6**	1.7 U

Sample Location	Sampling Event	Sample Number	Arsenic (µg/L)	Lead (µg/L)	Chromium, Total (µg/L)	Chromium, Hexavalent (µg/L)
MW-26-Screen-2	Jul/Aug 2016	DUP-3-3Q16	NA	NA	**8.3**	**2.0**
MW-26-Screen-2	Oct 2016	MW-26-2	NA	NA	**3.2**	**1.4 J**
MW-26-Screen-2	Jan/Feb 2017	MW-26-2	NA	NA	2.3 U	2.0 U
MW-26-Screen-2	Apr/May 2017	MW-26-2	2.0 U	1.0 U	**1.2 J**	1.7 U
MW-26-Screen-2	Jul/Aug 2017	MW-26-2	NA	NA	**3.0**	**1.3 J**
Analyte concentration exceeds the standard for:						
CA MCL			10.0	15.0*	50.0	10.0**
EPA REGION IX MCL			10.0	15.0*	100.0	NE

Notes

DUP(E)	Field Duplicate
NA	Not analyzed
NE	Not established
*	Regulatory Action Level
**	On July 1, 2014 the State Water Resources Control board (SWRCB) adopted an MCL for Cr(VI) of 10.0 µg/L
J	Analyte concentration is an estimated value
U	Analyte was analyzed for but not detected at or above the stated limit
UJ	Analyte was analyzed for but not detected; analyte concentration is an estimated value

TABLE 3

SUMMARY OF VOLATILE ORGANIC COMPOUNDS AND PERCHLORATE REPORTED IN MUNICIPAL PRODUCTION WELLS NEAR JPL DURING THE LAST FIVE SAMPLING EVENTS OF THE LONG-TERM QUARTERLY GROUNDWATER SAMPLING PROGRAM

(All concentrations reported in µg/L.)

(Shaded values exceed State or Federal MCLs or action levels.)

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
LA CANADA IRRIGATION DIST. WELL 01					
	3/21/2016	4.0 U	0.5 U	**0.9**	**1.2**
	4/18/2016	NA	0.5 U	**0.5**	**0.8**
	6/6/2016	NA	0.5 U	**0.6**	**0.6**
	9/6/2016	NA	NA	**0.8**	**1.2**
LA CANADA IRRIGATION DIST. WELL 06					
	9/12/2016	NA	NA	**0.7**	**1.4**
	12/12/2016	NA	0.5 U	**0.6**	**1.1**
	3/12/2017	4.0 U	NA	0.5 U	**0.9**
	6/5/2017	NA	NA	**0.5**	**1.1**
LAS FLORES WATER CO. WELL 02					
	5/2/2016	**4.9**	NA	**2.1**	NA
	5/9/2016	**4.7**	NA	**1.8**	NA
	5/16/2016	**4.4**	NA	**1.8**	NA
	5/23/2016	**4.8**	NA	**2.9**	NA
	5/31/2016	**4.7**	NA	**2.4**	NA
	6/6/2016	**5.0**	0.5 U	**2.3**	0.5 U
	6/13/2016	4.0 U	NA	**0.9**	NA
	6/20/2016	**4.6**	NA	**1.0**	NA
	7/5/2016	**5.5**	NA	**0.9**	NA
	7/11/2016	**4.3**	NA	0.5 U	NA
	7/18/2016	4.0 U	NA	**0.5**	NA
	7/25/2016	5.5	NA	**1.2**	NA
	8/1/2016	**4.5**	NA	**0.7**	NA
	8/8/2016	**4.0**	NA	0.5 U	NA
	8/15/2016	4.0 U	NA	0.5 U	NA
	8/22/2016	**4.3**	NA	0.5 U	NA
	8/29/2016	**4.8**	NA	0.5 U	NA
	9/6/2016	**4.6**	NA	0.5 U	NA
	9/12/2016	**4.5**	NA	**0.9**	NA
	9/19/2016	**4.1**	NA	**0.6**	NA
	9/26/2016	**5.3**	NA	**0.5**	NA
	10/3/2016	**4.6**	NA	**1.0**	NA
	10/10/2016	**4.1**	NA	**0.8**	NA
	10/17/2016	**5.2**	NA	**0.9**	NA
	10/24/2016	**4.8**	NA	**1.8**	NA
	11/7/2016	**4.7**	NA	**1.2**	NA
	11/14/2016	**4.5**	NA	**1.0**	NA
	11/21/2016	**4.9**	NA	**1.3**	NA
	11/28/2016	**4.0**	NA	**1.7**	NA
	12/5/2016	**4.2**	NA	**2.1**	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	12/12/2016	**4.6**	NA	**1.9**	NA
	12/19/2016	4.0 U	NA	**1.1**	NA
	12/27/2016	4.0 U	NA	0.5 U	NA
	1/3/2017	**4.0**	NA	0.5 U	NA
	1/9/2017	**4.5**	NA	**0.9**	NA
	1/16/2017	**4.8**	NA	**1.2**	NA
	1/23/2017	4.0 U	NA	**0.5**	NA
	2/6/2017	4.0 U	NA	**0.6**	NA
	4/17/2017	**5.1**	NA	**0.9**	NA
	4/24/2017	**5.1**	NA	**1.3**	NA
	5/8/2017	**4.7**	NA	**0.6**	NA
	5/15/2017	**4.9**	NA	**0.6**	NA
	5/22/2017	**4.9**	NA	**1.1**	NA
	5/30/2017	**4.4**	NA	**1.0**	NA
	6/5/2017	**4.7**	NA	**1.2**	NA
	6/12/2017	**5.4**	NA	**1.1**	NA
	6/19/2017	**5.0**	NA	**1.0**	NA
	6/26/2017	**4.5**	NA	**1.3**	NA
	7/3/2017	**5.2**	NA	**1.3**	NA
	7/10/2017	**4.7**	NA	**1.2**	NA
	7/17/2017	**4.6**	NA	**1.2**	NA
	7/24/2017	**4.3**	NA	**1.3**	NA
LINCOLN AVENUE WATER CO.	**WELL 03**				
	5/3/2016	**7.5**	**1.1**	**0.6**	**2.1**
	5/10/2016	**7.5**	NA	NA	NA
	5/17/2016	**7.2**	NA	NA	NA
	5/24/2016	**7.2**	NA	NA	NA
	5/31/2016	**6.8**	NA	NA	NA
	6/7/2016	**7.5**	**0.8**	0.5 U	**1.4**
	6/14/2016	**6.7**	NA	NA	NA
	6/21/2016	**6.7**	NA	NA	NA
	6/28/2016	**6.8**	NA	NA	NA
	7/5/2016	**6.6**	**0.8**	0.5 U	**1.4**
	7/12/2016	**6.2**	NA	NA	NA
	7/19/2016	**6.4**	NA	NA	NA
	7/26/2016	**7.7**	NA	NA	NA
	8/2/2016	**7.8**	**1.0**	0.5 U	**1.6**
	8/8/2016	NA	**1.3**	0.5 U	**1.6**
	8/9/2016	**6.7**	NA	NA	NA
	8/16/2016	**7.6**	NA	NA	NA
	8/23/2016	**8.4**	NA	NA	NA
	8/30/2016	**9.0**	NA	NA	NA
	9/6/2016	**9.2**	**1.2**	0.5 U	**1.6**
	9/13/2016	4.0 U	NA	NA	NA
	9/20/2016	**8.0**	NA	NA	NA
	9/27/2016	**9.0**	NA	NA	NA
	10/4/2016	**7.9**	**1.7**	**0.7**	**2.5**

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	10/11/2016	**8.6**	NA	NA	NA
	10/18/2016	**8.2**	NA	NA	NA
	10/25/2016	**7.8**	NA	NA	NA
	11/8/2016	**7.9**	NA	NA	NA
	11/15/2016	**7.3**	NA	NA	NA
	11/22/2016	**14.0**	NA	NA	NA
	11/29/2016	**7.2**	NA	NA	NA
	12/6/2016	**6.9**	**1.2**	0.5 U	**1.5**
	12/13/2016	**8.0**	NA	NA	NA
	12/20/2016	**7.4**	NA	NA	NA
	12/27/2016	**7.3**	NA	NA	NA
	1/3/2017	**7.9**	**0.9**	0.5 U	**1.5**
	1/10/2017	**7.9**	NA	NA	NA
	1/17/2017	**7.3**	NA	NA	NA
	1/24/2017	**7.0**	NA	NA	NA
	2/7/2017	**5.2**	**0.6**	0.5 U	**1.3**
	2/14/2017	**5.7**	NA	NA	NA
	2/21/2017	**5.1**	NA	NA	NA
	2/28/2017	**4.9**	NA	NA	NA
	3/7/2017	4.0 U	0.5 U	0.5 U	**1.3**
	3/14/2017	**4.0**	NA	NA	NA
	3/21/2017	4.0 U	NA	NA	NA
	3/28/2017	4.0 U	NA	NA	NA
	4/4/2017	4.0 U	0.5 U	0.5 U	**1.1**
	4/11/2017	4.0 U	NA	NA	NA
	4/18/2017	4.0 U	NA	NA	NA
	4/25/2017	4.0 U	NA	NA	NA
	5/2/2017	4.0 U	0.5 U	0.5 U	**1.0**
	5/9/2017	4.0 U	NA	NA	NA
	5/16/2017	4.0 U	NA	NA	NA
	5/23/2017	4.0 U	NA	NA	NA
	5/30/2017	4.0 U	NA	NA	NA
	6/6/2017	4.0 U	0.5 U	0.5 U	**1.0**
	6/13/2017	4.0 U	NA	NA	NA
	6/20/2017	4.0 U	NA	NA	NA
	6/27/2017	4.0 U	NA	NA	NA
	7/3/2017	4.0 U	0.5 U	0.5 U	**1.0**
	7/11/2017	4.0 U	NA	NA	NA
LINCOLN AVENUE WATER CO. WELL 05					
	7/5/2016	**14.0**	**1.9**	**0.6**	**1.5**
	7/12/2016	**13.0**	NA	NA	NA
	7/19/2016	**13.0**	NA	NA	NA
	7/26/2016	**13.0**	NA	NA	NA
	8/2/2016	**13.0**	**2.0**	**0.6**	**1.4**
	8/9/2016	**12.0**	NA	NA	NA
	8/16/2016	**12.0**	NA	NA	NA
	8/23/2016	**13.0**	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	8/30/2016	**14.0**	NA	NA	NA
	9/6/2016	**13.0**	**2.1**	**0.6**	**1.4**
	9/13/2016	**13.0**	NA	NA	NA
	9/20/2016	**14.0**	NA	NA	NA
	9/27/2016	**14.0**	NA	NA	NA
	10/4/2016	**12.0**	**2.9**	**0.8**	**2.1**
	10/11/2016	**14.0**	NA	NA	NA
	10/18/2016	**13.0**	NA	NA	NA
	10/25/2016	**13.0**	NA	NA	NA
	11/8/2016	**13.0**	NA	NA	NA
	11/15/2016	**12.0**	NA	NA	NA
	11/22/2016	**7.8**	NA	NA	NA
	11/29/2016	**13.0**	NA	NA	NA
	12/6/2016	**12.0**	**2.8**	**0.6**	**1.5**
	12/13/2016	**14.0**	NA	NA	NA
	12/20/2016	**13.0**	NA	NA	NA
	12/27/2016	**13.0**	NA	NA	NA
	1/5/2017	**13.0**	**1.6**	0.5 U	**0.9**
	1/17/2017	**13.0**	NA	NA	NA
	2/7/2017	**13.0**	**1.7**	**0.5**	**1.5**
	7/11/2017	**8.8**	**0.5**	**0.8**	**2.0**
	7/18/2017	**17.0**	NA	NA	NA
	7/25/2017	**18.0**	NA	NA	NA
PASADENA-CITY, WATER DEPT. ARROYO					
	5/3/2016	**13.2**	**0.7**	0.5 U	**1.8**
	5/10/2016	**12.4**	**0.9**	**0.6**	**1.8**
	5/17/2016	**12.1**	**0.7**	**0.5**	**1.8**
	5/24/2016	**12.4**	**0.7**	**0.5**	**1.8**
	5/31/2016	**12.6**	**1.0**	**0.5**	**1.9**
	6/7/2016	**11.8**	**0.9**	**0.5**	**1.9**
	6/14/2016	**11.8**	**0.8**	**0.5**	**1.8**
	6/21/2016	**12.1**	**0.9**	0.5 U	**2.0**
	6/28/2016	**11.6**	**0.8**	0.5 U	**1.8**
	7/5/2016	**12.3**	**0.8**	**0.5**	**1.9**
	7/12/2016	**12.4**	**0.9**	**0.5**	**2.0**
	7/19/2016	**12.2**	**0.8**	**0.5**	**1.9**
	7/26/2016	**11.9**	**0.7**	0.5 U	**1.9**
	8/2/2016	**12.3**	**0.7**	0.5 U	**1.8**
	8/9/2016	**12.4**	**0.9**	**0.6**	**2.3**
	8/16/2016	**11.6**	0.5 U	0.5 U	**1.3**
	8/23/2016	**11.7**	**0.8**	**0.5**	**1.9**
	8/30/2016	**11.7**	**0.8**	**0.6**	**2**
	9/6/2016	**12.2**	**1.0**	**0.6**	**2.1**
	9/13/2016	**11.4**	**0.9**	**0.6**	**2.1**
	9/20/2016	**11.9**	**0.9**	**0.6**	**2.2**
	9/27/2016	**11.2**	**0.8**	**0.5**	**1.8**
	10/4/2016	**11.5**	**0.8**	**0.6**	**2.1**

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	10/11/2016	**11.2**	**0.8**	**0.6**	**2.2**
	10/18/2016	**11.2**	**0.8**	**0.5**	**1.9**
	10/25/2016	**11.1**	**0.8**	**0.5**	**1.9**
	11/8/2016	**10.9**	**0.6**	0.5 U	**1.4**
	11/15/2016	**11.1**	**0.6**	0.5 U	**1.5**
	11/22/2016	**10.8**	**0.6**	0.5 U	**1.4**
	11/29/2016	**11.7**	**0.9**	**0.5**	**1.9**
	12/6/2016	**11.6**	**1.0**	**0.6**	**2.1**
	12/13/2016	**11.3**	**1.0**	**0.6**	**2.1**
	12/20/2016	**11.4**	**1.0**	**0.6**	**2.1**
	12/27/2016	**11.7**	**1.1**	**0.6**	**2.2**
	1/3/2017	**10.6**	**0.9**	**0.5**	**2**
	1/10/2017	**11.2**	**0.8**	**0.6**	**2**
	1/17/2017	**11.2**	**0.9**	**0.5**	**2.1**
	1/24/2017	**11.0**	**0.9**	**0.6**	**2.1**
	2/7/2017	**10.9**	**0.9**	**0.6**	**2.2**
	2/14/2017	**10.7**	**0.7**	**0.6**	**2.0**
	2/21/2017	**11.6**	**0.8**	**0.5**	**1.9**
	2/28/2017	**11.4**	**0.7**	0.5 U	**1.9**
	3/7/2017	**12.2**	**0.7**	**0.6**	**1.9**
	3/14/2017	**10**	**0.6**	**0.6**	**1.9**
	3/21/2017	**10**	**0.8**	**0.6**	**2.1**
	3/28/2017	**8.5**	**0.8**	**0.6**	**2.1**
	4/4/2017	**11.4**	**0.6**	**0.5**	**2.0**
	4/11/2017	**9.7**	**0.6**	**0.6**	**2.0**
	4/18/2017	**10.3**	**0.7**	**0.5**	**1.9**
	4/25/2017	**10.6**	**0.8**	**0.6**	**2.1**
	5/2/2017	**10.5**	**0.7**	**0.6**	**2.2**
	5/9/2017	**10.3**	**0.7**	**0.6**	**2.1**
	5/16/2017	**10.4**	**0.7**	**0.6**	**2.1**
	5/23/2017	**10.5**	**0.9**	**0.6**	**2.3**
	5/30/2017	**10.3**	**0.6**	0.5 U	**1.6**
	6/6/2017	**11.0**	**0.6**	**0.5**	**2.2**
	6/13/2017	**10.8**	**0.7**	**0.5**	**2.1**
	6/20/2017	**10.3**	**0.8**	**0.5**	**2.0**
	6/27/2017	**10.6**	**0.8**	**0.6**	**2.2**
	7/5/2017	**9.6**	**2.1**	**0.5**	**2.0**
	7/11/2017	**9.7**	**0.9**	**0.6**	**2.2**
	7/18/2017	**9.8**	**0.9**	**0.6**	**2.3**
	7/25/2017	**9.9**	**0.8**	**0.6**	**2.1**
PASADENA-CITY, WATER DEPT. VENTURA					
	9/13/2016	**4.5**	0.5 U	**1.5**	**3.6**
	10/4/2016	**4.0**	0.5 U	**1.4**	**3.2**
	12/6/2016	**4.2**	0.5 U	**1.4**	**3.2**
	12/13/2016	**4.5**	0.5 U	**1.5**	**3.3**
	1/10/2017	**4.6**	0.5 U	**1.4**	**3.0**
	2/7/2017	4.0 U	0.5 U	**1.4**	**3.4**

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	3/7/2017	4.0 U	0.5 U	**1.3**	**3.1**
	4/4/2017	4.0 U	0.5 U	**1.3**	**3.2**
	4/11/2017	4.0 U	0.5 U	**1.3**	**3.0**
PASADENA-CITY, WATER DEPT. WELL 52					
	2/29/2016	**5.5**	0.5 U	**1.0**	**6.4**
	3/1/2016	**5.6**	0.5 U	**0.9**	**5.8**
	3/29/2016	**5.2**	0.5 U	**1.0**	**6.4**
	8/2/2016	**5.0**	0.5 U	**0.8**	**5.6**
PASADENA-CITY, WATER DEPT. WINDSOR					
RUBIO CANON LAND & WATER ASSOCIATION WELL 04					
	5/2/2016	4.0 U	NA	NA	NA
	5/9/2016	4.0 U	NA	NA	NA
	5/16/2016	4.0 U	NA	NA	NA
	5/23/2016	4.0 U	NA	NA	NA
	5/31/2016	4.0 U	NA	NA	NA
	6/6/2016	4.0 U	NA	NA	NA
	6/13/2016	4.0 U	NA	NA	NA
	6/20/2016	4.0 U	NA	NA	NA
	6/27/2016	4.0 U	NA	NA	NA
	7/5/2016	4.0 U	NA	NA	NA
	7/11/2016	4.0 U	NA	NA	NA
	7/18/2016	4.0 U	NA	NA	NA
	7/25/2016	4.0 U	NA	NA	NA
	8/1/2016	4.0 U	NA	NA	NA
	8/8/2016	4.0 U	NA	NA	NA
	8/15/2016	4.0 U	NA	NA	NA
	8/22/2016	4.0 U	NA	NA	NA
	8/29/2016	4.0 U	NA	NA	NA
	9/7/2016	4.0 U	NA	NA	NA
	9/12/2016	4.0 U	NA	NA	NA
	9/19/2016	4.0 U	NA	NA	NA
	9/26/2016	4.0 U	NA	NA	NA
	10/3/2016	4.0 U	NA	NA	NA
	10/10/2016	4.0 U	NA	NA	NA
	10/17/2016	4.0 U	NA	NA	NA
	10/24/2016	4.0 U	NA	NA	NA
	11/7/2016	4.0 U	NA	NA	NA
	11/14/2016	4.0 U	NA	NA	NA
	11/21/2016	4.0 U	NA	NA	NA
	11/28/2016	4.0 U	NA	NA	NA
	12/5/2016	4.0 U	NA	NA	NA
	12/12/2016	4.0 U	NA	NA	NA
	12/19/2016	4.0 U	NA	NA	NA
	12/27/2016	4.0 U	NA	**3.6**	NA
	1/3/2017	4.0 U	NA	NA	NA
	1/9/2017	4.0 U	NA	NA	NA
	1/10/2017	NA	NA	**2.6**	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	1/17/2017	4.0 U	NA	NA	NA
	1/23/2017	4.0 U	NA	NA	NA
	1/30/2017	4.0 U	NA	NA	NA
	2/6/2017	4.0 U	0.5 U	**2.6**	0.5 U
	2/13/2017	4.0 U	NA	NA	NA
	2/21/2017	4.0 U	NA	NA	NA
	2/27/2017	4.0 U	NA	NA	NA
	3/6/2017	4.0 U	NA	NA	NA
	3/13/2017	4.0 U	NA	NA	NA
	3/20/2017	4.0 U	NA	NA	NA
	3/27/2017	4.0 U	NA	NA	NA
	4/3/2017	4.0 U	NA	**2.3**	NA
	4/10/2017	4.0 U	NA	NA	NA
	4/17/2017	4.0 U	NA	NA	NA
	4/24/2017	4.0 U	NA	NA	NA
	5/8/2017	4.0 U	NA	NA	NA
	5/15/2017	4.0 U	NA	NA	NA
	5/22/2017	4.0 U	NA	NA	NA
	5/30/2017	4.0 U	NA	NA	NA
	6/5/2017	4.0 U	NA	NA	NA
	6/12/2017	4.0 U	NA	NA	NA
	6/19/2017	4.0 U	NA	NA	NA
	6/26/2017	4.0 U	NA	NA	NA
	7/5/2017	4.0 U	NA	**1.5**	NA
	7/10/2017	4.0 U	NA	NA	NA
	7/17/2017	4.0 U	NA	NA	NA
	7/24/2017	4.0 U	NA	NA	NA
RUBIO CANON LAND & WATER ASSOCIATION	**WELL 07**				
	5/2/2016	4.0 U	NA	NA	NA
	5/9/2016	4.0 U	NA	NA	NA
	5/16/2016	4.0 U	NA	NA	NA
	5/23/2016	4.0 U	NA	NA	NA
	5/31/2016	4.0 U	NA	NA	NA
	6/6/2016	4.0 U	NA	NA	NA
	6/13/2016	4.0 U	NA	NA	NA
	6/20/2016	4.0 U	NA	NA	NA
	6/27/2016	4.0 U	NA	NA	NA
	7/5/2016	4.0 U	NA	**0.6**	NA
	7/11/2016	4.0 U	NA	NA	NA
	7/18/2016	4.0 U	NA	NA	NA
	7/25/2016	4.0 U	NA	NA	NA
	8/1/2016	4.0 U	NA	NA	NA
	8/8/2016	4.0 U	NA	NA	NA
	8/15/2016	4.0 U	NA	NA	NA
	8/22/2016	4.0 U	NA	NA	NA
	8/29/2016	4.0 U	NA	NA	NA
	9/7/2016	4.0 U	NA	NA	NA
	9/12/2016	4.0 U	NA	NA	NA

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	9/19/2016	4.0 U	NA	NA	NA
	9/26/2016	4.0 U	NA	NA	NA
	10/3/2016	4.0 U	NA	**0.6**	NA
	10/10/2016	4.0 U	NA	NA	NA
	10/17/2016	4.0 U	NA	NA	NA
	10/24/2016	4.0 U	NA	NA	NA
	11/7/2016	4.0 U	NA	NA	NA
	11/14/2016	4.0 U	NA	NA	NA
	11/21/2016	4.0 U	NA	NA	NA
	11/28/2016	4.0 U	NA	NA	NA
	12/5/2016	4.0 U	NA	NA	NA
	12/12/2016	4.0 U	NA	NA	NA
	12/19/2016	4.0 U	NA	NA	NA
	12/27/2016	4.0 U	NA	NA	NA
	1/3/2017	4.0 U	NA	NA	NA
	1/9/2017	4.0 U	NA	NA	NA
	1/10/2017	NA	NA	0.5 U	NA
	1/17/2017	4.0 U	NA	NA	NA
	1/23/2017	4.0 U	NA	NA	NA
	1/30/2017	4.0 U	NA	NA	NA
	2/6/2017	4.0 U	0.5 U	**0.6**	0.5 U
	2/13/2017	4.0 U	NA	NA	NA
	2/21/2017	4.0 U	NA	NA	NA
	2/27/2017	4.0 U	NA	NA	NA
	3/6/2017	4.0 U	NA	NA	NA
	3/13/2017	4.0 U	NA	NA	NA
	3/20/2017	4.0 U	NA	NA	NA
	3/27/2017	4.0 U	NA	NA	NA
	4/3/2017	4.0 U	NA	**0.8**	NA
	4/10/2017	4.0 U	NA	NA	NA
	4/17/2017	4.0 U	NA	NA	NA
	4/24/2017	4.0 U	NA	NA	NA
	5/8/2017	4.0 U	NA	NA	NA
	5/15/2017	4.0 U	NA	NA	NA
	5/22/2017	4.0 U	NA	NA	NA
	5/30/2017	4.0 U	NA	NA	NA
	6/5/2017	4.0 U	NA	NA	NA
	6/12/2017	4.0 U	NA	NA	NA
	6/19/2017	4.0 U	NA	NA	NA
	6/26/2017	4.0 U	NA	NA	NA
	7/5/2017	4.0 U	NA	0.5 U	NA
	7/10/2017	4.0 U	NA	NA	NA
	7/17/2017	4.0 U	NA	NA	NA
	7/24/2017	4.0 U	NA	NA	NA
VALLEY WATER CO. WELL 01					
	5/13/2016	4.0 U	0.5 U	**1.0**	0.5 U
	6/1/2016	4.0 U	0.5 U	**1.5**	**0.7**

Purveyor, Well Name	Sample Date	Perchlorate	Carbon tetrachloride	PCE	TCE
	8/3/2016	4.0 U	0.5 U	**1.1**	**1.4**
	10/4/2016	4.0 U	NA	NA	NA
	10/18/2016	NA	0.5 U	**1.9**	**2.1**
	11/8/2016	**4.1**	NA	NA	NA
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	**1.4**	**1.0**
	6/2/2017	NA	0.5 U	**1.4**	**1.8**
	7/11/2017	4.0 U	0.5 U	**1.2**	**1.5**
VALLEY WATER CO. WELL 02					
	5/13/2016	4.0 U	0.5 U	**1.1**	0.5 U
	5/17/2016	NA	0.5 U	**1.6**	0.5 U
	6/1/2016	4.0 U	0.5 U	**0.8**	**0.7**
	8/3/2016	4.0 U	0.5 U	**0.9**	**0.8**
	10/4/2016	4.0 U	NA	NA	NA
	10/18/2016	NA	0.5 U	**0.8**	**0.8**
	11/8/2016	4.0 U	NA	NA	NA
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	**0.8**	**0.6**
	6/2/2017	NA	0.5 U	**0.8**	**0.7**
	7/11/2017	4.0 U	0.5 U	**0.8**	**0.8**
VALLEY WATER CO. WELL 03					
	5/13/2016	4.0 U	0.5 U	**1.1**	**0.9**
	6/1/2016	4.0 U	0.5 U	**1.0**	**0.8**
	8/3/2016	4.0 U	0.5 U	**1.4**	**0.8**
	11/8/2016	**4.2**	NA	NA	NA
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	**1.2**	0.7
	6/2/2017	NA	0.5 U	**0.5**	0.5 U
	7/13/2017	4.0 U	0.5 U	0.5 U	0.5 U
VALLEY WATER CO. WELL 04					
	5/4/2016	4.0 U	0.5 U	**0.7**	**0.9**
	5/13/2016	NA	0.5 U	**0.6**	**0.9**
	6/1/2016	4.0 U	0.5 U	**0.9**	**1.4**
	8/3/2016	4.0 U	0.5 U	**0.9**	**0.8**
	11/8/2016	**4.3**	NA	NA	NA
	5/2/2017	4.0 U	NA	NA	NA
	5/17/2017	NA	0.5 U	**0.9**	**0.9**
	6/2/2017	NA	0.5 U	**0.9**	**0.7**
	7/11/2017	4.0 U	0.5 U	**1.0**	**0.8**
Analyte concentration exceeds the standard for:					
CA MCL		6.0	0.5	5.0	5.0
EPA REGION IX MCL		NE	5.0	5.0	5.0

Notes

NA	Not analyzed
NE	Not established
Source	State Water Resources Control Board (Division of Drinking Water) Water Quality Index Database
U	Analyte was analyzed for but not detected at or above the stated limit

TABLE 4

TENTATIVELY IDENTIFIED COMPOUNDS

IN SAMPLES COLLECTED DURING THE 3rd QUARTER 2017 SAMPLING EVENT

(All concentrations reported in µg/L)

Sampling Location	Sample Type	Tentatively Identified Compound	Concentration
No Tentatively Identified Compounds were reported during the subject period.			